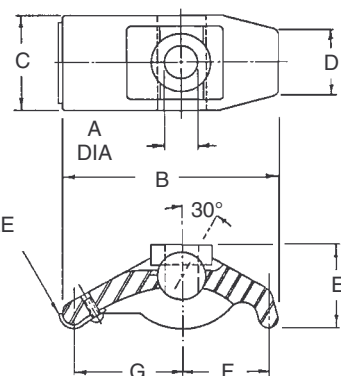
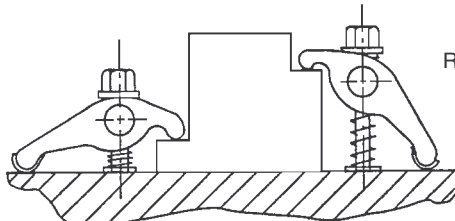


# FORGED ADJUSTABLE CLAMPS

FORGED C1045 STEEL, BLACK OXIDE FINISH



Rugged forged steel pivot clamp. Instant height adjustment without blocks or shims. One-piece assembly allows quick setups and eliminates lost clamp pieces. Removable brass heel protects machine table. Clamp can swing 90° in either direction for loading clearance.



## CLAMP STRAPS

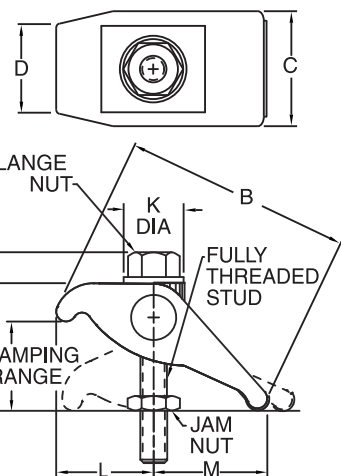
PART NO.	STUD SIZE	CLAMPING RANGE	A DIA	B	C	D	E	F	G
CL-6-FAC	5/16, 3/8, M8, or M10	0 to 1-3/4	7/16	3-1/4	1-1/4	7/8	1	1-1/8	1-7/8
CL-8-FAC	1/2 or M12	0 to 2-1/16	9/16	4	1-5/8	1-1/8	1-7/16	1-7/16	2-5/16
CL-10-FAC	5/8 or M16	0 to 3	11/16	5-1/2	1-7/8	1-3/8	1-7/8	2	3-1/4
CL-12-FAC	3/4 or M20	0 to 4-1/4	13/16	6-1/4	2-5/8	2	2-1/4	2-1/8	3-1/2
CL-16-FAC	7/8, 1, or M24	0 to 5-1/2	1-1/16	7	3-1/8	2-3/8	2-7/16	2-1/4	4



Assembly with Flange Nut  
CL-x-FACA-FN



Assembly with Hand Knob  
CL-x-FACA-HK



## ASSEMBLIES (USA)

PART NO.	STUD SIZE	CLAMPING RANGE	H	J	K DIA	L		M		FORGED ADJUSTABLE CLAMP	FULLY THREADED STUD	JAM NUT	FLANGE NUT
						MIN	MAX	MIN	MAX				
CL-5-FACA-FN	5/16-18	0 to 1-3/4	2-1/8	3/8	3/4	1-1/16	1-1/4	1-3/4	2	CL-6-FAC	CL-5/16-18x3.00-FTS	CL-5-JN	CL-9-FN
CL-6-FACA-FN	3/8-16			1/2	7/8						CL-3/8-16x3.00-FTS	CL-6-JN	CL-2-FN
CL-8-FACA-FN	1/2-13	0 to 2-1/16	2-5/8	11/16	1-1/8	1-3/8	1-9/16	2-1/8	2-7/16	CL-8-FAC	CL-1/2-13x4.00-FTS	CL-8-JN	CL-3-FN
CL-10-FACA-FN	5/8-11	0 to 3	3-3/4	13/16	1-3/8	1-13/16	2-1/8	2-15/16	3-3/8	CL-10-FAC	CL-5/8-11x5.00-FTS	CL-10-JN	CL-4-FN
CL-12-FACA-FN	3/4-10	0 to 4-1/4	5-3/8	1	1-5/8	2-1/8	2-7/16	3-5/16	3-13/16	CL-12-FAC	CL-3/4-10x7.00-FTS	CL-12-JN	CL-5-FN
CL-14-FACA-FN	7/8-9	0 to 5-1/2	7	1-1/8	1-3/4	2-1/4	2-5/8	3-13/16	4-3/8	CL-16-FAC	CL-7/8-9x8.00-FTS	CL-14-JN	CL-6-FN
CL-18-FACA-FN	1"-8			1-1/4	2						CL-1-8x8.00-FTS	CL-16-JN	CL-7-FN

## ASSEMBLIES (METRIC)

CLM-x-FACA-FN	M8	0 to 1-3/4	2-1/8	.39	.75	1-1/16	1-1/4	1-3/4	2	CL-6-FAC	CLM-8x80-FTS	CLM-8-JN	CLM-8-FN
CLM-6-FACA-FN	M10			.51	.87						CLM-10x80-FTS	CLM-10-JN	CLM-10-FN
CLM-8-FACA-FN	M12	0 to 2-1/16	2-5/8	.67	1.10	1-3/8	1-9/16	2-1/8	2-7/16	CL-8-FAC	CLM-12x110-FTS	CLM-12-JN	CLM-12-FN
CLM-10-FACA-FN	M16	0 to 3	3-3/4	.83	1.34	1-13/16	2-1/8	2-15/16	3-3/8	CL-10-FAC	CLM-16x125-FTS	CLM-16-JN	CLM-16-FN
CLM-12-FACA-FN	M20	0 to 4-1/4	5-3/8	.98	1.61	2-1/8	2-7/16	3-5/16	3-13/16	CL-12-FAC	CLM-20x175-FTS	CLM-20-JN	CLM-20-FN
CLM-16-FACA-FN	M24	0 to 5-1/2	7	1.26	2.01	2-1/4	2-5/8	3-13/16	4-3/8	CL-16-FAC	CLM-24x200-FTS	CLM-24-JN	CLM-24-FN



## MANUFACTURING CO.

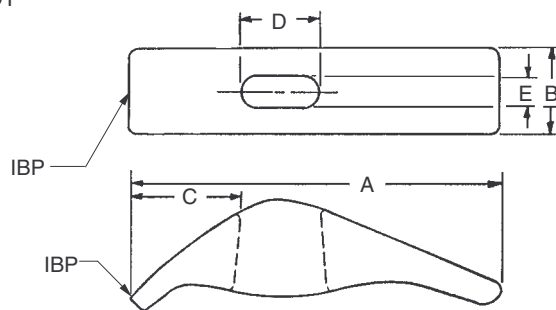
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# ALUMINUM ADJUSTABLE CLAMPS

**VAR-A-CLAMPS**  
TENZALOY ALUMINUM ALLOY



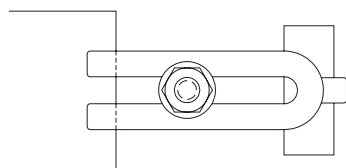
Simple, economical aluminum clamp, similar in function to the Forged Adjustable Clamps shown above.



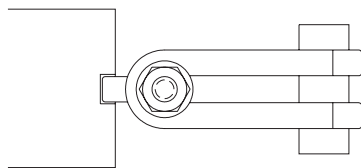
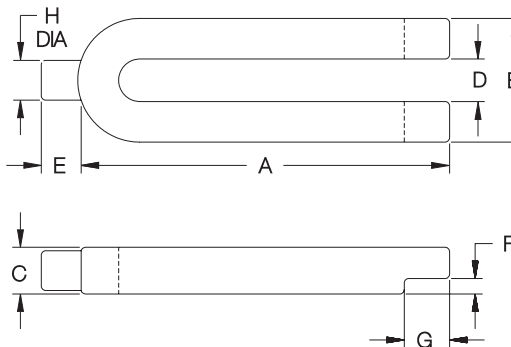
PART NO.	STUD SIZE	CLAMPING RANGE	A	B	C	D	E
CL-8-VAC	3/8 or M10	0 to 2"	4-7/8	1-1/4	1-3/8	1	13/32
CL-10-VAC	1/2 or M12	0 to 2-1/2"	5-1/2	1-1/2	1-1/2	1-1/8	17/32

# FORGED U CLAMPS

FORGED STEEL, 70,000 PSI YIELD STRENGTH, BLACK OXIDE FINISH



Open U end allows totally removing clamp strap when unclamped. Clamp tips are stepped to provide repeatable location.



Cylindrical pin end minimizes contact area and is useful for clamping in horizontal holes.

PART NO.	BOLT SIZE	A	B	C	D	E	F	G	H
CL-4-FUC	5/8-11 or M16	3-1/2	1-15/16	3/4	11/16	5/8	1/4	1/2	5/8
CL-6-FUC		5-7/16	2-1/4	7/8	11/16	3/4	5/16	3/4	3/4
CL-8-FUC	3/4-10 or M20	7-3/8	2-5/8	1-1/8	13/16	27/32	3/8	1-1/32	13/16
CL-12-FUC	1"-8 or M24	10-15/16	3-3/16	1-3/8	1-1/16	1-3/32	1/2	1-3/16	1-1/32



**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: [www.carrlane.com](http://www.carrlane.com)

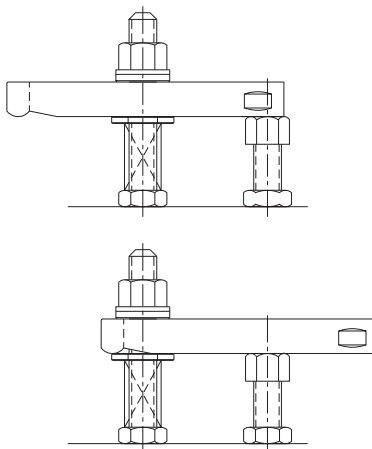
# SLOTTED-HEEL CLAMP STRAPS

STEEL: 1018, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300 SERIES



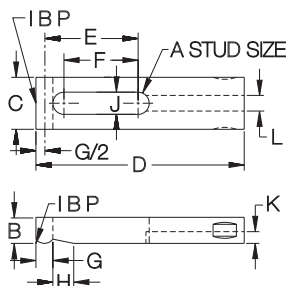
**Steel and  
Stainless Steel**

Popular Clamp Strap with a slot underneath to allow sliding it straight back for clear loading. Two drill spots on the sides provide a secure grip for retracting the clamp. Available in steel for 1/4-20 (M6) to 3/4-10 (M20) stud sizes, or stainless steel for #10-32 to 3/8-16 stud sizes. Each size is available in several strap lengths.



See pages 182-184 for complete assemblies using these Clamp Straps.

## STRAPS — STEEL



PART NO.	A	B	C	D	E	F	G	H	J	K	L
CL-0-CS	1/4-20 or M6	3/8	5/8	2	27/32	19/32	1/4	11/32	9/32	5/32	3/16
CL-1-CS				2-1/2	1-3/32	13/16					
CL-1A-CS	5/16-18 or M8	1/2	3/4	2-1/2	27/32	1/2	5/16	7/16	11/32	7/32	1/4
CL-1B-CS				3	1-11/32	1					
CL-2-CS	3/8-16 or M10	1/2	1-1/8	3	1-9/32	7/8	13/32	1/2	27/64	9/32	3/8
CL-3A-CS				3-1/2	1-17/32	1-1/8					
CL-3-CS				4	1-25/32	1-3/8					
CL-4-CS				5	2-9/32	1-7/8					
CL-5-CS				6	2-25/32	2-3/8					
CL-6A-CS	1/2-13 or M12	5/8	1-1/4	3-1/2	1-1/2	1-1/32	13/32	1/2	17/32	9/32	3/8
CL-6-CS				4	1-3/4	1-9/32					
CL-8-CS				5	2-1/4	1-25/32					
CL-10-CS				6	2-3/4	2-9/32					
CL-15A-CS	5/8-11 or M16	7/8	1-1/2	4	1-11/16	1-3/32	1/2	19/32	21/32	9/32	1/2
CL-16-CS				5	2-3/16	1-19/32					
CL-18-CS				6	2-11/16	2-3/32					
CL-18A-CS				6-1/2	2-15/16	2-11/32					
CL-19-CS	3/4-10 or M20	1	1-3/4	6	2-5/8	2	1/2	19/32	13/16	5/16	1/2
CL-21-CS				7	3-1/8	2-9/16					
CL-22A-CS				8	3-5/8	3-1/8					



See pages 51-54MF for stackable high-rise clamp-strap assemblies.

## STRAPS — STAINLESS, MINIATURE

CL-17215	#10-32	1/4	1/2	1-1/2	21/32	15/32	3/16	5/16	7/32	3/32	7/32
CL-17220				2	29/32	23/32					
CL-17320	1/4-20	3/8	5/8	2	7/8	11/16	1/4	3/8	9/32	1/8	9/32
CL-17325				2-1/2	1-1/8	15/16					
CL-17420	5/16-18	3/8	3/4	2	27/32	19/32	5/16	7/16	11/32	5/32	11/32
CL-17425				2-1/2	1-3/32	27/32					
CL-17430				3	1-11/32	1-3/32					
CL-17530	3/8-16	1/2	1	3	1-5/16	1	3/8	1/2	13/32	3/16	13/32
CL-17540				4	1-13/16	1-1/2					



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

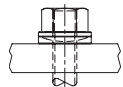
# SLOTTED-HEEL CLAMP STRAPS

SEE PAGES 59, 69, 214-219, 221 AND 231-232 FOR MATERIAL SPECIFICATIONS

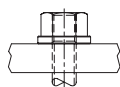


Steel

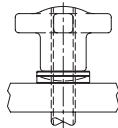
A complete clamp-strap assembly using a slotted-heel strap from page 229. Select any of the six nut/knob combinations shown below by adding the appropriate suffix to the part number. Other Stud and Clamp Rest lengths are available (order pieces individually).



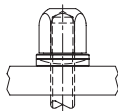
Spherical Nut & Washer  
CL-xx-SHA-1



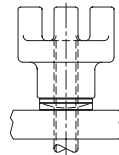
Flange Nut  
CL-xx-SHA-2



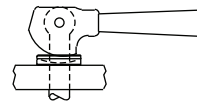
Hand Knob with Spherical Washer  
CL-xx-SHA-4



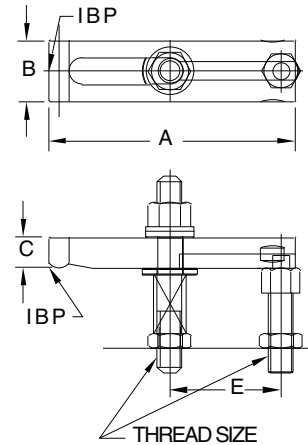
Acorn Nut with Spherical Washer  
CL-xx-SHA-5



Bar Knob with Spherical Washer\*  
CL-xx-SHA-6



Cam Handle with Spherical Washer  
(See page 192)



## ASSEMBLIES — STEEL (USA)

PART NO.	THREAD SIZE	A	B	C	E	CLAMP STRAP	CLAMP REST	SPRING	FLAT WASHER	STUD
CL-0-SHA-x	1/4-20	2	5/8	3/8	27/32	CL-0-CS	CL-1-CR	CL-5-SPG	CL-7-FW	CL-1/4-20x2.50-STUD
CL-1-SHA-x		2-1/2			1-3/32	CL-1-CS				
CL-1A-SHA-x	5/16-18	2-1/2	3/4	1/2	27/32	CL-1A-CS	CL-1A-CR	CL-6-SPG	CL-14-FW	CL-5/16-18x 3.00-STUD
CL-1B-SHA-x		3			1-11/32	CL-1B-CS				
CL-2-SHA-x	3/8-16	3	1-1/8	1/2	1-9/32	CL-2-CS	CL-2-CR	CL-7-SPG	CL-1-FW	CL-3/8-16x3.00-STUD
CL-3-SHA-x		3-1/2			1-17/32	CL-3A-CS				
CL-4-SHA-x		4			1-25/32	CL-3-CS				
CL-6-SHA-x		5			2-9/32	CL-4-CS				
CL-8-SHA-x		6			2-25/32	CL-5-CS				
CL-9-SHA-x		3-1/2			1-1/2	CL-6A-CS				
CL-10-SHA-x	1/2-13	4	1-1/4	5/8	1-3/4	CL-6-CS	CL-4-CR	CL-9-SPG	CL-2-FW	CL-1/2-13x4.00-STUD
CL-12-SHA-x		5			2-1/4	CL-8-CS				
CL-14-SHA-x		6			2-3/4	CL-10-CS				
CL-20-SHA-x		4			1-11/16	CL-15A-CS				
CL-22-SHA-x	5/8-11	5	1-1/2	7/8	2-3/16	CL-16-CS	CL-6-CR	CL-11-SPG	CL-3-FW	CL-5/8-11x4.50-STUD
CL-24-SHA-x		6			2-11/16	CL-18-CS				
CL-25-SHA-x		6-1/2			2-15/16	CL-18A-CS				
CL-27-SHA-x		6			2-5/8	CL-19-CS				
CL-29-SHA-x	3/4-10	7	1-3/4	1	3-1/8	CL-21-CS	CL-8-CR	CL-13-SPG	CL-4-FW	CL-3/4-10x5.00-STUD
CL-31-SHA-x		8			3-5/8	CL-22A-CS				

## ASSEMBLIES — STEEL (METRIC)

CLM-0-SHA-x	M6	2	5/8	3/8	27/32	CL-0-CS	CLM-1-CR	CL-5-SPG	CL-7-FW	CLM-6x65-STUD
CLM-1-SHA-x	M8	2-1/2	3/4	1/2	1-3/32	CL-1-CS	CLM-1A-CR	CL-6-SPG	CL-14-FW	CLM-8x80-STUD
CLM-1A-SHA-x		2-1/2			27/32	CL-1A-CS				
CLM-1B-SHA-x	M10	3	1-1/8	1/2	1-11/32	CL-1B-CS	CLM-2-CR	CL-7-SPG	CL-1-FW	CLM-1x80-STUD
CLM-2-SHA-x		3			1-9/32	CL-2-CS				
CLM-3-SHA-x		3-1/2			1-17/32	CL-3A-CS				
CLM-4-SHA-x		4			1-25/32	CL-3-CS				
CLM-6-SHA-x		5			2-9/32	CL-4-CS				
CLM-8-SHA-x		6			2-25/32	CL-5-CS				
CLM-9-SHA-x	M12	3-1/2	1-1/4	5/8	1-1/2	CL-6A-CS	CLM-4-CR	CL-9-SPG	CL-2-FW	CLM-12x95-STUD
CLM-10-SHA-x		4			1-3/4	CL-6-CS				
CLM-12-SHA-x		5			2-1/4	CL-8-CS				
CLM-14-SHA-x		6			2-3/4	CL-10-CS				
CLM-20-SHA-x	M16	4	1-1/2	7/8	1-11/16	CL-15A-CS	CLM-5-CR	CL-11-SPG	CL-3-FW	CLM-16x110-STUD
CLM-22-SHA-x		5			2-3/16	CL-16-CS				
CLM-24-SHA-x		6			2-11/16	CL-18-CS				
CLM-25-SHA-x		6-1/2			2-15/16	CL-18A-CS				
CLM-27-SHA-x	M20	6	1-3/4	1	2-5/8	CL-19-CS	CLM-8-CR	CL-13-SPG	CLM-10-FW	CLM-20x125-STUD
CLM-29-SHA-x		7			3-1/8	CL-21-CS				
CLM-31-SHA-x		8			3-5/8	CL-22A-CS				

\* Available in thread sizes 3/8-16 and above (M10 and above in metric).



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

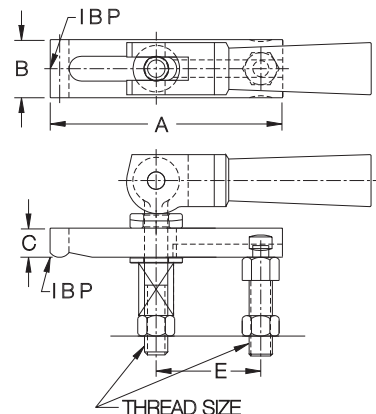
# SLOTTED-HEEL CLAMP STRAPS

SEE PAGES 215, 217-218, 228, 230-232, AND 181 FOR MATERIAL SPECIFICATIONS



**Straddle Cam Steel**

A complete clamp-strap assembly using a slotted-heel strap from page 181 along with a Double Cam and Eyebolt. Other Eyebolt and Clamp Rest lengths are available (order pieces individually).



## ASSEMBLIES — STRADDLE CAM, STEEL (USA)

PART NO.	THREAD SIZE	A	B	C	E	CLAMP STRAP	CLAMP REST	SPRING	EYE BOLT	CAM HANDLE AND CLEVIS PIN	FLAT WASHER	SPHERICAL WASHER
CL-0-SCA	1/4-20	2	5/8	3/8	27/32	CL-0-CS	CL-1-CR	CL-5-SPG	CL-25-EB	CL-11-CH CL-610-CLVP	CL-7-FW	CL-1-SW
CL-1-SCA		2-1/2			1-3/32	CL-1-CS						
CL-1A-SCA	5/16-18	2-1/2	3/4	1/2	27/32	CL-1A-CS	CL-1A-CR	CL-6-SPG	CL-31-EB	CL-11A-CH CL-810-CLVP	CL-14-FW	CL-11-SW
CL-1B-SCA		3			1-11/32	CL-1B-CS						
CL-2-SCA	3/8-16	3	1-1/8	1/2	1-9/32	CL-2-CS	CL-2-CR	CL-7-SPG	CL-38-EB	CL-12-CH CL-1014-CLVP	CL-1-FW	CL-2-SW
CL-2A-SCA		3-1/2			1-17/32	CL-3A-CS						
CL-3-SCA		4			1-25/32	CL-3-CS						
CL-4-SCA		5			2-9/32	CL-4-CS						
CL-5-SCA		6			2-25/32	CL-5-CS						
CL-6A-SCA		3-1/2			1-1/2	CL-6A-CS						
CL-6-SCA	1/2-13	4	1-1/4	5/8	1-3/4	CL-6-CS	CL-4-CR	CL-9-SPG	CL-50-EB	CL-13-CH CL-1218-CLVP	CL-2-FW	CL-3-SW
CL-8-SCA		5			2-1/4	CL-8-CS						
CL-9A-SCA		6			2-3/4	CL-10-CS						
CL-17-SCA		4			1-11/16	CL-15A-CS						
CL-19-SCA	5/8-11	5	1-1/2	7/8	2-3/16	CL-16-CS	CL-6-CR	CL-11-SPG	CL-62-EB	CL-14-CH CL-2020-CLVP	CL-3-FW	CL-4-SW
CL-21-SCA		6			2-11/16	CL-18-CS						
CL-22-SCA		6-1/2			2-15/16	CL-18A-CS						
CL-24-SCA		6			2-5/8	CL-19-CS						
CL-26-SCA	3/4-10	7	1-3/4	1	3-1/8	CL-21-CS	CL-8-CR	CL-13-SPG	CL-75-EB	CL-15-CH CL-2024-CLVP	CL-4-FW	CL-5-SW
CL-28-SCA		8			3-5/8	CL-22A-CS						

## ASSEMBLIES — STRADDLE CAM, STEEL (METRIC)

CLM-0-SCA	M6	2	5/8	3/8	27/32	CL-0-CS	CLM-1-CR	CL-5-SPG	CLM-25A-EB	CLM-11-CH CLM-616-CLVP	CL-7-FW	CL-1-SW
CLM-1-SCA		2-1/2			1-3/32	CL-1-CS						
CLM-2-SCA	M10	3	1-1/8	1/2	1-9/32	CL-2-CS	CLM-2-CR	CL-7-SPG	CLM-40-EB	CLM-12-CH CLM-1023-CLVP	CL-1-FW	CL-2-SW
CLM-2A-SCA		3-1/2			1-17/32	CL-3A-CS						
CLM-3-SCA		4			1-25/32	CL-3-CS						
CLM-4-SCA		5			2-9/32	CL-4-CS						
CLM-5-SCA		6			2-25/32	CL-5-CS						
CLM-6A-SCA		3-1/2			1-1/2	CL-6A-CS						
CLM-6-SCA	M12	4	1-1/4	5/8	1-3/4	CL-6-CS	CLM-4-CR	CL-9-SPG	CLM-50A-EB	CLM-13-CH CLM-1229-CLVP	CL-2-FW	CL-3-SW
CLM-8-SCA		5			2-1/4	CL-8-CS						
CLM-9A-SCA		6			2-3/4	CL-10-CS						
CLM-17-SCA		4			1-11/16	CL-15A-CS						
CLM-19-SCA	M16	5	1-1/2	7/8	2-3/16	CL-16-CS	CLM-5-CR	CL-11-SPG	CLM-62-EB	CLM-14-CH CLM-1632-CLVP	CL-3-FW	CL-4-SW
CLM-21-SCA		6			2-11/16	CL-18-CS						
CLM-22-SCA		6-1/2			2-15/16	CL-18A-CS						
CLM-24-SCA		6			2-5/8	CL-19-CS						
CLM-26-SCA	M20	7	1-3/4	1	3-1/8	CL-21-CS	CLM-8-CR	CL-13-SPG	CLM-76A-EB	CLM-15-CH CLM-2038-CLVP	CLM-10-FW	CLM-20-SW
CLM-28-SCA		8			3-5/8	CL-22A-CS						



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

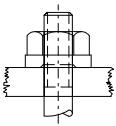
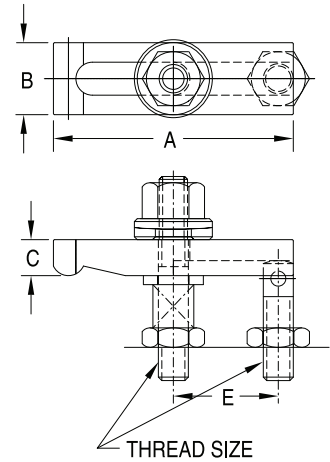
# SLOTTED-HEEL CLAMP STRAPS

SEE PAGES 73, 215-216, 218, 222, 231-232, AND 181 FOR MATERIAL SPECIFICATIONS



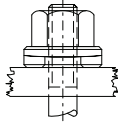
**Stainless Steel  
(Miniature)**

A complete clamp-strap assembly using a stainless steel slotted-heel strap from page 181. Select any of the four nut/knob combinations shown below by adding the appropriate suffix to the part number. Fixture Stud has a thread-locking interference thread at the bottom end to install permanently in a fixture plate.



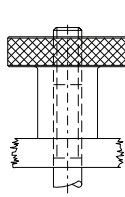
Flange Nut

CL-xxxx-1



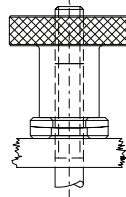
Spherical Nut  
and Washer

CL-xxxx-2



Knurled  
Knob

CL-xxxx-3



Knurled Knob  
and Spherical  
Washer

CL-xxxx-4

## ASSEMBLIES — STAINLESS, MINIATURE (USA)

PART NO.	THREAD SIZE	A	B	C	E	CLAMP STRAP	CLAMP REST	SPRING	FLAT WASHER	STUD	JAM NUT
CL-2715-x	#10-32	1-1/2	1/2	1/4	21/32	CL-17215	CL-13410	CL-2430.7	CL-254	CL-11415	CL-3-FJN-S
CL-2720-x		2			29/32	CL-17220					
CL-2820-x	1/4-20	2	5/8	3/8	7/8	CL-17320	CL-13515	CL-2440.7	CL-255	CL-11520	CL-4-JN-S
CL-2825-x		2-1/2			1-1/8	CL-17325					
CL-2920-x	5/16-18	2	3/4	3/8	27/32	CL-17420	CL-13612	CL-2450.7	CL-256	CL-11620	CL-5-JN-S
CL-2925-x		2-1/2			1-3/32	CL-17425					
CL-2930-x		3			1-11/32	CL-17430					
CL-3030-x	3/8-16	3	1	1/2	1-5/16	CL-17530	CL-13717	CL-2461.0	CL-257	CL-11725	CL-6-JN-S
CL-3040-x		4			1-13/16	CL-17540					



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# SLOTTED-HEEL GOOSENECK CLAMP STRAPS

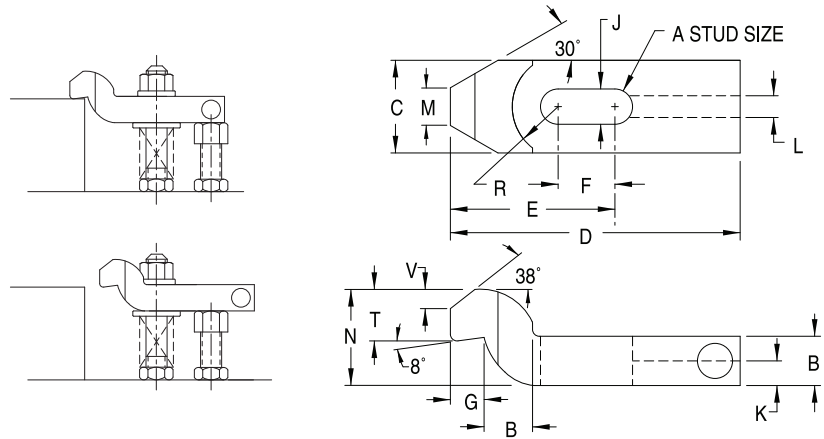
**NEW!**

STRAP: ALLOY STEEL, BLACK OXIDE FINISH

SEE PAGES 59, 69, 214-219, AND 231-232 FOR OTHER MATERIAL SPECIFICATIONS



Gooseneck version of our Slotted-Heel Clamp Straps. This design recesses the clamping nut to provide a low overall profile. Slotted-Heel Clamp Straps have a slot underneath to slide straight back for clear loading. An indentation at the rear of each side provides a secure finger grip for retracting the clamp. Available to fit 1/2-13 studs (M12 in metric).

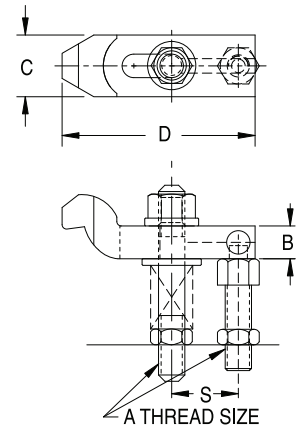
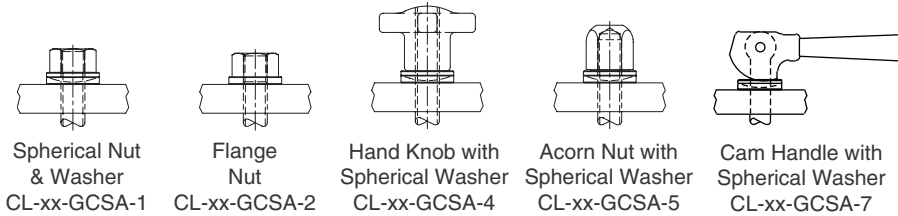


### STRAPS – STEEL

PART NO.	A	B	C	D	E	F	G	J	K	L	M	N	R	T	V
CL-85-GCS	1/2 OR M12	.79	1.57	4.92	2.87	1.02	.63	.55	.34	.38	.79	1.57	.79	.90	.34



Slotted-Heel Gooseneck Clamp Straps are also available as a complete assembly. Select any of the five nut/knob combinations shown below by adding the appropriate suffix to the part number. Other lengths of Clamping Studs and Clamp Rests are available (order pieces individually).



### ASSEMBLIES – STEEL (USA)

PART NO.	A	B	C	D	S	CLAMP STRAP	CLAMP REST	SPRING	FLAT WASHER	STUD	JAM NUT
CL-85-GCSA-X	1/2 OR M12	.79	1.57	5.91	2.75	CL-85-GCS	CL-4-CR	CL-9-SPG	CL-2-FW	CL-1/2-13X4.00-STUD	CL-8-JN

### ASSEMBLIES – STEEL (METRIC)

PART NO.	A	B	C	D	S	CLAMP STRAP	CLAMP REST	SPRING	FLAT WASHER	STUD	JAM NUT
CLM-85-GCSA-X	1/2 OR M12	.79	1.57	5.91	2.75	CL-85-GCS	CL-4-CR	CL-9-SPG	CL-2-FW	CL-1/2-13X4.00-STUD	CL-12-JN



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: [www.carrlane.com](http://www.carrlane.com)

(Rev. 2-10)

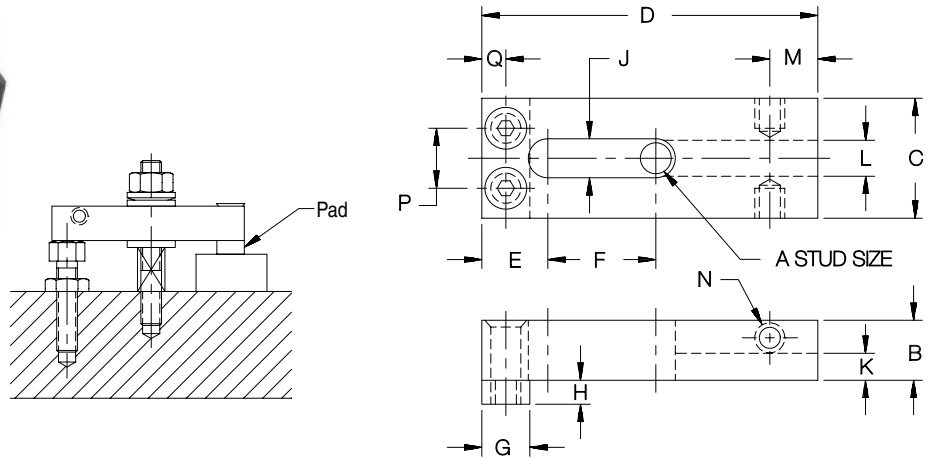
# SLOTTED-HEEL PADDED CLAMP STRAPS

STRAP: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 PAD: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



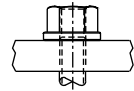
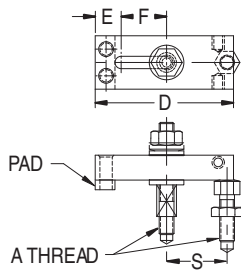
**Steel**

Slotted-Heel Clamp Strap that features a replaceable clamping pad attached with two screws (furnished). Clamp Strap also easily accepts custom pads or other attachments. Rear end is tapped on either side for a Finger Pin (see page 92). Available for 1/4-20 (M6) to 1/2-13 (M12) stud sizes, most in a choice of several strap lengths.

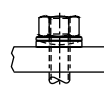


## STRAPS — STEEL WITH STEEL PAD

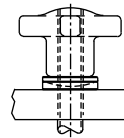
PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
CL-165-CS	1/4-20 or M6	3/8	5/8	2	3/8	5/8	1/4	1/8	9/32	5/32	1/4			11/32	9/64
CL-166-CS	3/8-16 or M10	5/8	1-1/4	3-1/2	11/16	1-1/8	1/2	1/4	27/64	9/32	3/8	1/2	5/16-18	5/8	1/4
CL-168-CS				4-1/2		1-5/8									
CL-169-CS	1/2-13 or M12	3/4	1-1/2	4-1/2	7/8	1-1/4	5/8	3/8	17/32	9/32	3/8	1/2	5/16-18	3/4	5/16
CL-170A-CS				6		2									



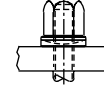
Spherical Nut & Washer  
CL-xx-SHPA-1



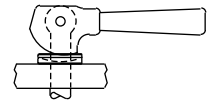
Flange Nut  
CL-xx-SHPA-2



Hand Knob with Spherical Washer  
CL-xx-SHPA-4



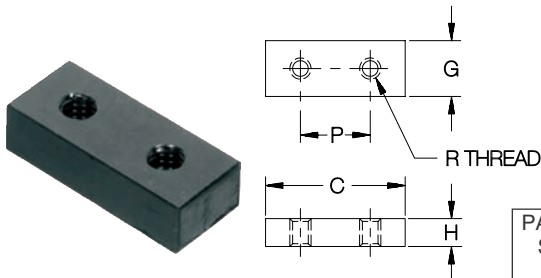
Acorn Nut with Spherical Washer  
CL-xx-SHPA-5



Cam Handle with Spherical Washer  
CL-xx-SPHA-7

## ASSEMBLIES — STEEL WITH STEEL PAD (USA)

PART NO.	A	D	E	F	S	CLAMP STRAP	CLAMP REST	SPRING	FLAT WASHER	CLAMPING STUD
CL-165-SHPA-x	1/4-20	2	3/8	5/8	7/8	CL-165-CS	CL-1-CR	CL-5-SPG	CL-7-FW	CL-1/4-20x2.50-STUD
CL-166-SHPA-x	3/8-16	3-1/2	11/16	1-1/8	1-7/16	CL-166-CS	CL-2-CR	CL-7-SPG	CL-1-FW	CL-3/8-16x3.00-STUD
CL-168-SHPA-x		4-1/2		1-5/8	1-15/16	CL-168-CS				
CL-169-SHPA-x	1/2-13	4-1/2	7/8	1-1/4	2-1/8	CL-169-CS	CL-4-CR	CL-9-SPG	CL-2-FW	CL-1/2-13x4.00-STUD
CL-170A-SHPA-x				6	2	2-7/8				



Replacement or optional pads for the Clamp Straps shown above. Available in steel, reinforced plastic, or brass.

## REPLACEMENT PADS

PART NO. STEEL PAD	PART NO. PLASTIC PAD	PART NO. BRASS PAD	STUD SIZE	C	G	H	P	R
CL-40-CP	CL-20-CP	CL-30-CP	1/4-20 or M6	5/8	1/4	1/8	11/32	#5-40
CL-42-CP	CL-22-CP	CL-32-CP	3/8-16 or M10	1-1/4	1/2	1/4	5/8	#10-24
CL-43-CP	CL-23-CP	CL-33-CP	1/2-13 or M12	1-1/2	5/8	3/8	3/4	1/4-20



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# TAPPED-HEEL CLAMP STRAPS

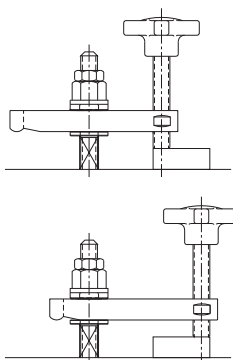
STEEL: 1018, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300 SERIES



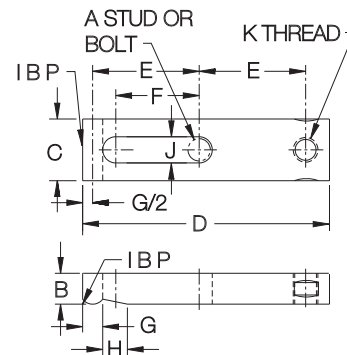
**Steel and  
Stainless Steel**

Popular Clamp Strap with a tapped heel that accepts a clamping screw or rear support. Often used with a Guide Block to allow sliding the strap straight back for clear loading. Two drill spots on the sides provide a secure grip for retracting the clamp. Can also be used with a Stud Leveling Foot as a rear support (see pages 144-145).

Available in steel for 1/4-20 to 3/4-10 stud sizes (M6 to M20 in metric), or stainless steel for #10-32 to 3/8-16 stud sizes. Each size is available in several strap lengths.



See pages 188-189, 194 for complete assemblies using these clamp straps.



## STRAPS — STEEL (USA)

PART NO.	A	B	C	D	E	F	G	H	J	K
CL-61-CS	1/4-20	3/8	5/8	2	13/16	9/16	1/4	11/32	9/32	1/4-20
CL-62-CS				2-1/2	1-1/16	13/16				
CL-63-CS				3	1-7/32	13/16				
CL-65-CS	3/8-16	1/2	1-1/8	4	1-23/32	1-5/16	13/32	1/2	27/64	3/8-16
CL-67-CS				5	2-7/32	1-13/16				
CL-69-CS				6	2-23/32	2-5/16				
CL-70-CS	1/2-13	5/8	1-1/4	3-1/2	1-13/32	15/16	13/32	1/2	17/32	1/2-13
CL-71-CS				4	1-21/32	1-3/16				
CL-72-CS				4-1/2	1-29/32	1-7/16				
CL-73-CS				5	2-5/32	1-11/16				
CL-74-CS				5-1/2	2-13/32	1-15/16				
CL-75-CS				6	2-21/32	2-3/16				
CL-81-CS	5/8-11	7/8	1-1/2	4	1-9/16	1	1/2	19/32	21/32	5/8-11
CL-77-CS				4-1/2	1-13/16	1-1/4				
CL-83-CS				5	2-1/16	1-1/2				
CL-85-CS				6	2-9/16	2				
CL-86-CS				6-1/2	2-13/16	2-1/4				
CL-88-CS	3/4-10	1	1-3/4	6	2-1/2	1-29/32	1/2	19/32	13/16	3/4-10
CL-90-CS				7	3	2-13/32				
CL-92-CS				8	3-1/2	2-29/32				

## STRAPS — STEEL (METRIC)

CLM-PART NO.	A	B	C	D	E	F	G	H	J	K
CLM-61-CS	M6	3/8	5/8	2	13/16	9/16	1/4	11/32	9/32	M6
CLM-62-CS				2-1/2	1-1/16	13/16				
CLM-63-CS				3	1-7/32	13/16				
CLM-65-CS	M10	1/2	1-1/8	4	1-23/32	1-5/16	13/32	1/2	27/64	M10
CLM-67-CS				5	2-7/32	1-13/16				
CLM-70-CS				3-1/2	1-13/32	15/16				
CLM-71-CS	M12	5/8	1-1/4	4	1-21/32	1-3/16	13/32	1/2	17/32	M12
CLM-72-CS				4-1/2	1-29/32	1-7/16				
CLM-73-CS				5	2-5/32	1-11/16				
CLM-75-CS				6	2-21/32	2-3/16				
CLM-81-CS				4	1-9/16	1				
CLM-83-CS				5	2-1/16	1-1/2				
CLM-85-CS	6	2-9/16	2							
CLM-88-CS	M20	1	1-3/4	6	2-1/2	1-29/32	1/2	19/32	13/16	M20
CLM-92-CS				8	3-1/2	2-29/32				

## STRAPS — STAINLESS, MINIATURE (USA)

CL-PART NO.	A	B	C	D	E	F	G	H	J	K
CL-18215	#10-32	1/4	1/2	1-1/2	19/32	13/32	3/16	5/16	7/32	#10-32
CL-18220				2	27/32	21/32				
CL-18320	1/4-20	3/8	5/8	2	13/16	19/32	1/4	3/8	9/32	1/4-20
CL-18325				2-1/2	1-1/16	27/32				
CL-18420				2	3/4	1/2				
CL-18425	5/16-18	3/8	3/4	2-1/2	1	3/4	5/16	7/16	11/32	5/16-18
CL-18430				3	1-1/4	1				
CL-18530	3/8-16	1/2	1	3	1-7/32	7/8	3/8	1/2	27/64	3/8-16
CL-18535				3-1/2	1-15/32	1-1/8				
CL-18540				4	1-23/32	1-3/8				

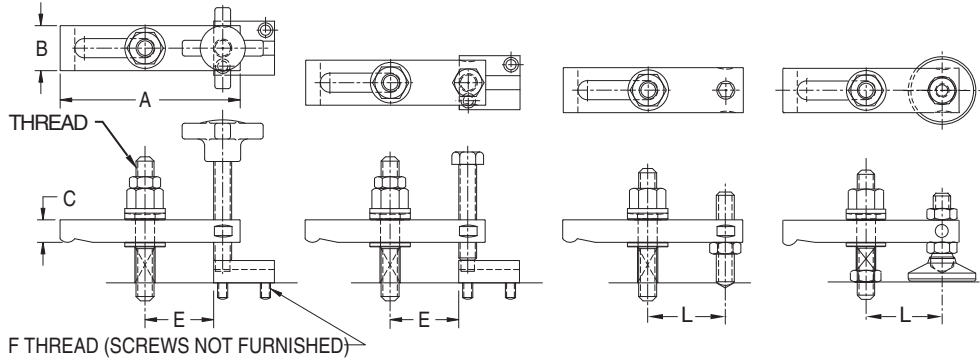
# TAPPED-HEEL CLAMP STRAPS

SEE PAGES 60, 215-219, 221, 232, AND 187 FOR MATERIAL SPECIFICATION

A complete clamp-strap assembly using a tapped-heel strap from page 187. Select one of two clamping screws or a rear Clamp Rest, as shown below, by adding the appropriate suffix to the part number.



Steel



Hand-Knob Clamping Screw  
CL-xx-THA-HK

Hex-Head Clamping Screw  
CL-xx-THA-HH

Oval-Point Clamp Rest  
CL-xx-THA-OP

Leveling Foot  
CL-xx-THA-LF

## ASSEMBLIES — STEEL (USA)

PART NO.	THREAD SIZE	A	B	C	E	F	L	CLAMP STRAP	GUIDE BLOCK*	STUD & SPRING	NUTS	FLAT WASHER
CL-1-THA-xx	1/4-20	2	5/8	3/8	11/16	#6-32	13/16	CL-61-CS	CL-2-GB	CL-1/4-20x2.00-STUD CL-5-SPG	CL-4-JN CL-1-SNW	CL-7-FW
CL-2-THA-xx		2-1/2			15/16		1-1/16	CL-62-CS				
CL-3-THA-xx	3/8-16	3	1-1/8	1/2	1-1/32	#10-32	1-7/32	CL-63-CS	CL-4-GB	CL-3/8-16x3.00-STUD CL-7-SPG	CL-6-JN CL-2-SNW	CL-1-FW
CL-5-THA-xx		4			1-17/32		1-23/32	CL-65-CS				
CL-7-THA-xx		5			2-1/32		2-7/32	CL-67-CS				
CL-9-THA-xx		6			2-17/32		2-23/32	CL-69-CS				
CL-10-THA-xx		3-1/2			1-5/32		1-13/32	CL-70-CS				
CL-11-THA-xx	4	1-13/32	1-21/32	CL-71-CS								
CL-12-THA-xx	1/2-13	4-1/2	1-1/4	5/8	1-21/32	1/4-20	1-29/32	CL-72-CS	CL-6-GB	CL-1/2-13x4.00-STUD CL-9-SPG	CL-8-JN CL-3-SNW	CL-2-FW
CL-13-THA-xx		5			1-29/32		2-5/32	CL-73-CS				
CL-14-THA-xx		5-1/2			2-5/32		2-13/32	CL-74-CS				
CL-15-THA-xx		6			2-13/32		2-21/32	CL-75-CS				
CL-21-THA-xx	5/8-11	4	1-1/2	7/8	1-1/4	1/4-20	1-9/16	CL-81-CS	CL-8-GB	CL-5/8-11x4.00-STUD CL-11-SPG	CL-10-JN CL-4-SNW	CL-3-FW
CL-17-THA-xx		4-1/2			1-13/16		CL-77-CS					
CL-23-THA-xx		5			2-1/16		CL-83-CS					
CL-25-THA-xx		6			2-9/16		CL-85-CS					
CL-26-THA-xx		6-1/2			2-13/16		CL-86-CS					
CL-28-THA-xx	3/4-10	6	1-3/4	1	2-1/8	1/4-20	2-1/2	CL-88-CS	CL-11-GB	CL-3/4-10x5.00-STUD CL-13-SPG	CL-12-JN CL-5-SNW	CL-4-FW
CL-30-THA-xx		7			2-5/8		3	CL-90-CS				
CL-32-THA-xx		8			3-1/8		3-1/2	CL-92-CS				

## ASSEMBLIES — STEEL (METRIC)

CLM-1-THA-xx	M6	2	5/8	3/8	11/16	M4	13/16	CLM-61-CS	CL-2-GB	CLM-6x65-STUD CL-5-SPG	CLM-6-JN CLM-6-SNW	CL-7-FW
CLM-2-THA-xx	M6	2-1/2	5/8	3/8	15/16	M4	1-1/16	CLM-62-CS	CL-2-GB	CLM-6x65-STUD CL-5-SPG	CLM-6-JN CLM-6-SNW	CL-7-FW
CLM-3-THA-xx		3			1-1/32		1-1/16	CLM-63-CS				
CLM-5-THA-xx	M10	4	1-1/8	1/2	1-17/32	M5	1-23/32	CLM-65-CS	CL-4-GB	CLM-10x80-STUD CL-7-SPG	CLM-10-JN CLM-10-SNW	CL-1-FW
CLM-7-THA-xx		5			2-1/32		2-7/32	CLM-67-CS				
CLM-10-THA-xx		3-1/2			1-5/32		1-13/32	CLM-70-CS				
CLM-11-THA-xx	M12	4	1-1/4	5/8	1-13/32	M6	1-21/32	CLM-71-CS	CL-6-GB	CLM-12x95-STUD CL-9-SPG	CLM-12-JN CLM-12-SNW	CL-2-FW
CLM-12-THA-xx		4-1/2			1-21/32		1-29/32	CLM-72-CS				
CLM-13-THA-xx		5			1-29/32		2-5/32	CLM-73-CS				
CLM-15-THA-xx		6			2-13/32		2-21/32	CLM-75-CS				
CLM-21-THA-xx	M16	4	1-1/2	7/8	1-1/4	M6	1-9/16	CLM-81-CS	CL-8-GB	CLM-16x110-STUD CL-11-SPG	CLM-16-JN CLM-16-SNW	CL-3-FW
CLM-23-THA-xx		5			1-3/4		2-1/16	CLM-83-CS				
CLM-25-THA-xx		6			2-1/4		2-9/16	CLM-85-CS				
CLM-28-THA-xx		6			2-1/8		2-13/16	CLM-86-CS				
CLM-30-THA-xx		M20			6		1-3/4	1				
CLM-32-THA-xx	8		3-1/8	3-1/2	CLM-92-CS							

\* Not included on oval-point version



**MANUFACTURING CO.**

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

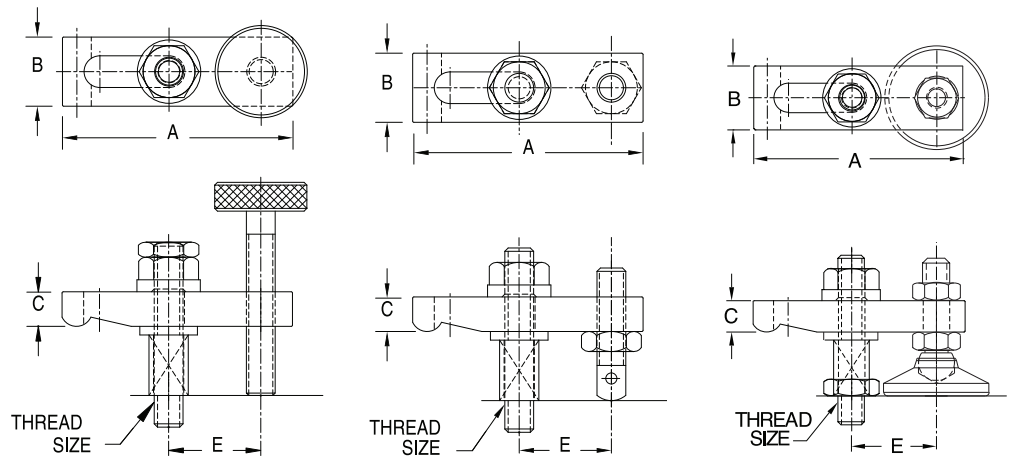
# TAPPED-HEEL CLAMP STRAPS

SEE PAGES 73, 215,-216, 218, 222, 231-232, AND 187 FOR MATERIAL SPECIFICATIONS



**Stainless Steel  
(Miniature)**

A complete clamp-strap assembly using a stainless steel tapped-heel strap from page 187. Fixture Stud has a thread-locking interference thread at the bottom end to install permanently in a fixture plate. Standard assembly includes a Knurled-Head Screw. To order with a rear Clamp Rest instead, add "-1" to the part number (example: CL-3115-1). To order with a Leveling Foot instead, add "-2" to the part number (example: CL-3115-2).



Knurled-Head Screw  
CL-xxxx

Clamp Rest  
CL-xxxx-1

Leveling Foot  
CL-xxxx-2

## ASSEMBLIES — STAINLESS, MINIATURE (USA)

PART NO. WITH KNURLED HEAD SCREW	THREAD SIZE	A	B	C	E	CLAMP STRAP	KNURLED HEAD SCREW	CLAMP REST	LEVELING FOOT	SPRING	FLAT WASHER	STUD	FLANGE NUT
CL-3115	#10-32	1-1/2	1/2	1/4	19/32	CL-18215	CL-23212	CL-13410	CL-3-SLF-S	CL-2430.7	CL-254	CL-11415	CL-124
CL-3120		2			27/32	CL-18220							
CL-3220	1/4-20	2	5/8	3/8	13/16	CL-18320	CL-23515	CL-13515	CL-4-SLF-S	CL-2440.7	CL-255	CL-11520	CL-125
CL-3225		2-1/2			1-1/16	CL-18325							
CL-3320	5/16-18	2	3/4	3/8	3/4	CL-18420	CL-23620	CL-13612	CL-5-SLF-S	CL-2450.7	CL-256	CL-11620	CL-126
CL-3325		2-1/2			1	CL-18425							
CL-3330		3			1-1/4	CL-18430							
CL-3430		3			1-7/32	CL-18530							
CL-3435	3/8-16	3-1/2	1	1/2	1-15/32	CL-18535	CL-23820	CL-13717	CL-6-SLF-S	CL-2461.0	CL-257	CL-11725	CL-127
CL-3440		4			1-23/32	CL-18540							



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

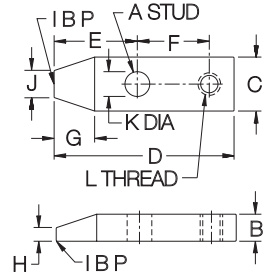
# TAPERED-NOSE CLAMP STRAPS

STRAP: 300-SERIES STAINLESS STEEL  
 SEE PAGES 73, 215-216, 218, 222, 231-232 FOR OTHER MATERIAL SPECIFICATIONS



**Stainless Steel  
(Miniature)**

Tapped-Heel Clamp Strap with a tapered nose for clamping in tight spaces. Available in stainless steel for #10-32 to 3/8-16 stud sizes.



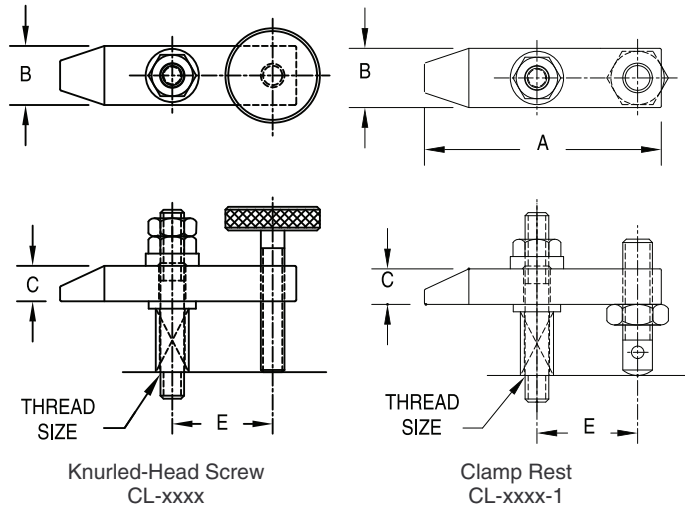
## STRAPS — STAINLESS, MINIATURE (USA)

PART NO.	A	B	C	D	E	F	G	H	J	K	L
CL-20215	#10-32	1/4	1/2	1-1/2	11/16	19/32	3/8	1/8	1/4	7/32	#10-32
CL-20220				2	15/16	27/32					
CL-20320	1/4-20	3/8	5/8	2	15/16	13/16	15/32	5/32	5/16	9/32	1/4-20
CL-20325				2-1/2	1-3/16	1-1/16					
CL-20425	5/16-18	3/8	3/4	2-1/2	1-5/32	1	9/16	3/16	3/8	11/32	5/16-18
CL-20535	3/8-16	1/2	1	3-1/2	1-21/32	1-15/32	3/4	1/4	1/2	27/64	3/8-16



**Stainless Steel  
(Miniature)**

A complete clamp-strap assembly using one of the straps shown above. Fixture Stud has a thread-locking interference thread at the bottom end to install permanently in a fixture plate. Standard assembly includes a Knurled-Head Screw. To order with a rear Clamp Rest instead, add "-1" to the part number. Example: CL-3915-1.



## ASSEMBLIES — STAINLESS, MINIATURE (USA)

PART NO. WITH KNURLED HEAD SCREW	PART NO. WITH CLAMP REST	THREAD SIZE	A	B	C	E	CLAMP STRAP	KNURLED HEAD SCREW	CLAMP REST	SPRING	FLAT WASHER	STUD	FLANGE NUT
CL-3915	CL-3915-1	#10-32	1-1/2	1/2	1/4	19/32	CL-20215	CL-23212	CL-13410	CL-2430.7	CL-254	CL-11415	CL-124
CL-3920	CL-3920-1		2			27/32	CL-20220						
CL-4020	CL-4020-1	1/4-20	2	5/8	3/8	13/16	CL-20320	CL-23515	CL-13515	CL-2440.7	CL-255	CL-11520	CL-125
CL-4025	CL-4025-1		2-1/2			1-1/16	CL-20325						
CL-4125	CL-4125-1	5/16-18	2-1/2	3/4	3/8	1	CL-20425	CL-23620	CL-13612	CL-2450.7	CL-256	CL-11620	CL-126
CL-4235	CL-4235-1	3/8-16	3-1/2	1	1/2	1-15/32	CL-20535	CL-23820	CL-13717	CL-2461.0	CL-257	CL-11725	CL-127



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

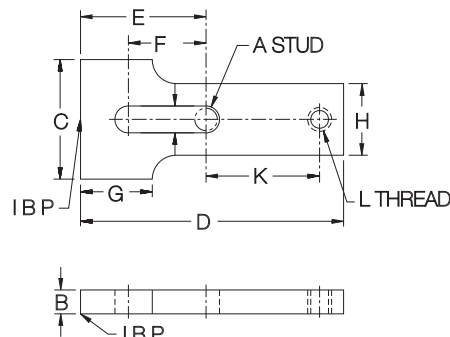
# WIDE-NOSE CLAMP STRAPS

STRAP: 300-SERIES STAINLESS STEEL  
 SEE PAGES 73, 215-216, 218, 222, 231-232 FOR OTHER MATERIAL SPECIFICATIONS



**Stainless Steel (Miniature)**

Tapped-Heel Clamp Strap with an extra-wide nose. Available in stainless steel for 1/4-20 studs.

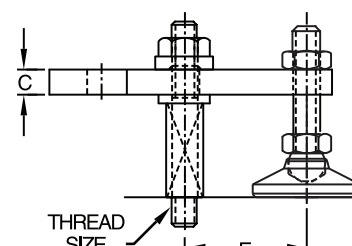
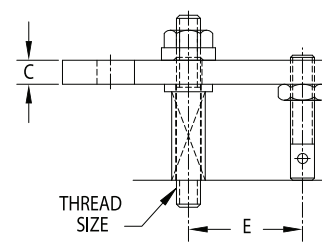
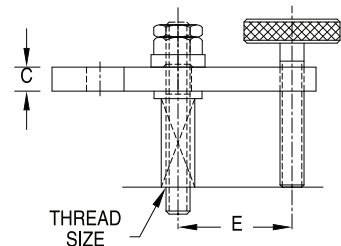
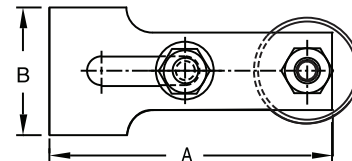
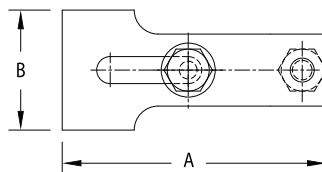
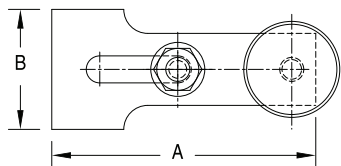


**Stainless Steel (Miniature)**

## STRAPS — STAINLESS, MINIATURE (USA)

PART NO.	A	B	C	D	E	F	G	H	J	K	L
CL-22227	1/4-20	1/4	1-1/4	2-3/4	1-5/16	13/16	3/4	3/4	9/32	1-3/16	1/4-20

A complete clamp-strap assembly using the Clamp Strap shown above. Fixture stud has a thread-locking interference thread at the bottom end to install permanently in a fixture plate. Standard assembly includes a Knurled-Head Screw. To order with a rear Clamp Rest instead, add "-1" to the part number (CL-44227-1). To order with a levelling foot instead, add "-2" to the part number (CL-44227-2).



Knurled-Head Screw  
CL-xxxx

Clamp Rest  
CL-xxxx-1

Levelling Foot  
CL-xxxx-2

## ASSEMBLIES — STAINLESS, MINIATURE (USA)

PART NO. WITH KNURLED HEAD SCREW	THREAD SIZE	A	B	C	E	CLAMP STRAP	KNURLED HEAD SCREW	CLAMP REST	LEVELING FOOT	SPRING	FLAT WASHER	STUD	FLANGE NUT
CL-44227	1/4-20	2-3/4	1-1/4	1/4	1-3/16	CL-22227	CL-23515	CL-13515	CL-13515	CL-2440.7	CL-255	CL-11520	CL-125



## MANUFACTURING CO.

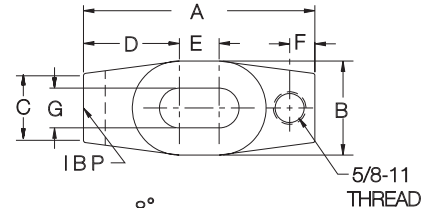
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# FORGED CLAMP STRAPS

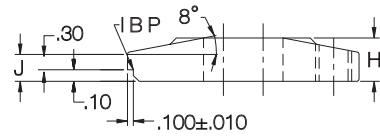
FORGED STEEL, 70,000 PSI YIELD STRENGTH, BLACK OXIDE FINISH



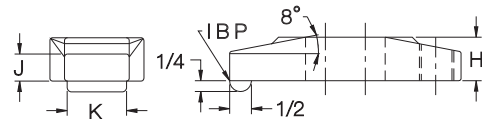
**Straight  
Locator Nose**



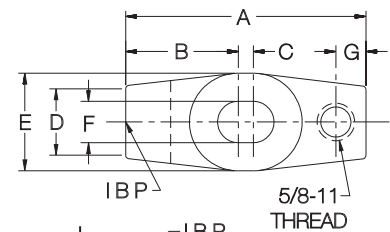
**Straight  
Plain Nose**



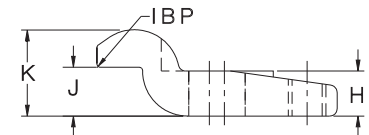
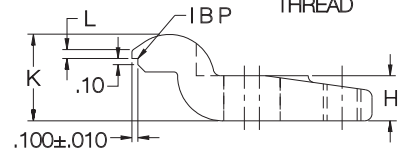
**Gooseneck  
Locator Nose**



**Gooseneck  
Plain Nose**



High-strength tapped-heel clamp strap available in straight or gooseneck design, with locator nose or plain nose. Locator-nose version is ideal for workpieces with machined sides. The accurately machined notch ensures precise, repeatable clamp location for increased machining clearance. For rear clamp rests, see Stud Leveling Feet on pages 140 and 141.



## STRAIGHT — LOCATOR NOSE

PART NO.	STUD SIZE	A	B	C	D	E	F	G	H	J	K
CL-4-FSCS	5/8-11	4	1-5/8	1-3/16	1-21/32	11/16	7/16	11/16	3/4	1/2	—
CL-6-FSCS		6	1-3/4	1-1/4	2-5/16	1-3/8	9/16		7/8	9/16	—
CL-8-FSCS	3/4-10	8	2-1/8	1-1/2	3	2	11/16	13/16	1-1/8	3/4	—
CL-10-FSCS	7/8-9	10	2-1/2	1-3/4	3-5/8	2-3/4	13/16	15/16	1-3/8	15/16	—

## STRAIGHT — PLAIN NOSE

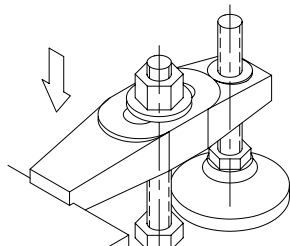
CL-4-FRCS	5/8-11	4	1-5/8	1-3/16	1-21/32	11/16	7/16	11/16	3/4	1/2	1
CL-6-FRCS		6	1-3/4	1-1/4	2-5/16	1-3/8	9/16		7/8	9/16	
CL-8-FRCS	3/4-10	8	2-1/8	1-1/2	3	2	11/16	13/16	1-1/8	3/4	1-1/4
CL-10-FRCS	7/8-9	10	2-1/2	1-3/4	3-5/8	2-3/4	13/16	15/16	1-3/8	15/16	1-1/2

## GOOSENECK — LOCATOR NOSE

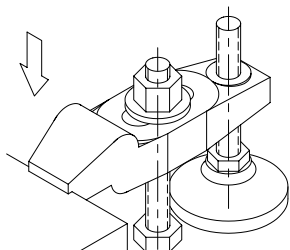
PART NO.	STUD SIZE	A	B	C	D	E	F	G	H	J	K	L
CL-40-FGNS	5/8-11	4	1-31/32	3/16	1-3/16	1-3/4	11/16	1/2	3/4	3/4	1-7/16	.15
CL-60-FGNS		6	2-17/32	1	1-1/4	1-3/4		5/8	7/8	15/16	1-9/16	.25
CL-80-FGNS	3/4-10	8	3-9/32	1-5/8	1-9/16	2-1/4	13/16	1	1-1/8	1-1/8	2	.35

## GOOSENECK — PLAIN NOSE

CL-4-FGNS	5/8-11	4	1-31/32	3/16	1-3/16	1-3/4	11/16	1/2	3/4	3/4	1-7/16	—
CL-6-FGNS		6	2-17/32	1	1-1/4	1-3/4		5/8	7/8	15/16	1-9/16	—
CL-8-FGNS	3/4-10	8	3-9/32	1-5/8	1-9/16	2-1/8	13/16	1	1-1/8	1-1/8	2	—



**Straight  
Locator Nose  
Clamp**



**Gooseneck  
Locator Nose  
Clamp**



**MANUFACTURING CO.**

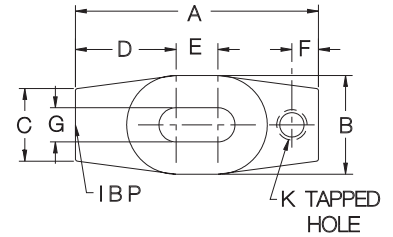
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# ALUMINUM CLAMP STRAPS

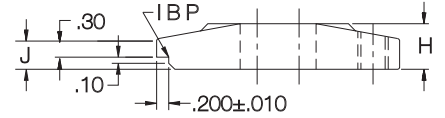
TENZALOY ALUMINUM ALLOY, 25,000 PSI YIELD STRENGTH, BRINELL HARDNESS-74



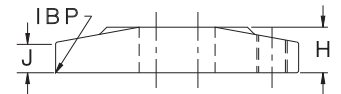
**Straight  
Locator Nose**



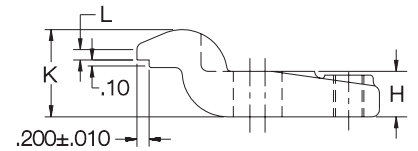
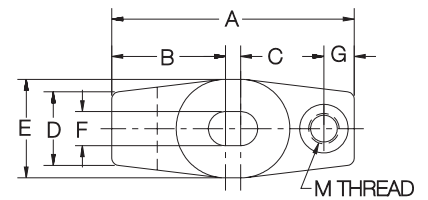
**Straight  
Plain Nose**



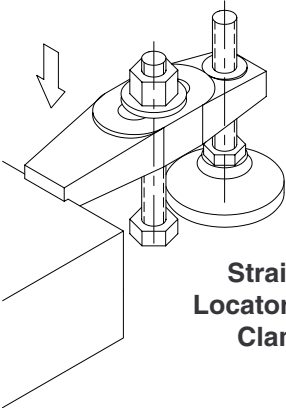
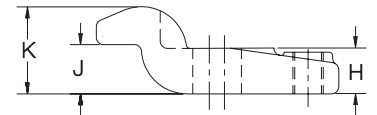
**Gooseneck  
Locator Nose**



**Gooseneck  
Plain Nose**



Soft clamp strap made of high-strength aluminum alloy. This tapped-heel clamp is available in straight or gooseneck design, with locator nose or plain nose. Locator-nose version is ideal for workpieces with machined sides. The accurately machined notch ensures precise, repeatable clamp location for increased machining clearance. For rear clamp rests, see Stud Leveling Feet on pages 140 and 141.



**Straight  
Locator Nose  
Clamp**

### STRAIGHT — LOCATOR NOSE

PART NO.	STUD SIZE	A	B	C	D	E	F	G	H	J	K
CL-4-ALCS	1/2-13	4	1-5/8	1-3/16	1-21/32	11/16	7/16	9/16	3/4	1/2	1/2-13
CL-6-ALCS		6	1-3/4	1-1/4	2-5/16	1-3/8	9/16	9/16	7/8	9/16	1/2-13
CL-8-ALCS	5/8-11	8	2-1/8	1-1/2	3	2	11/16	11/16	1-1/8	3/4	5/8-11

### STRAIGHT — PLAIN NOSE

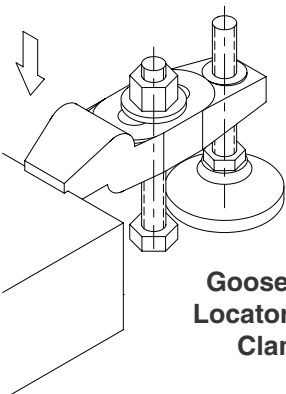
CL-4-ASCS	1/2-13	4	1-5/8	1-3/16	1-21/32	11/16	7/16	9/16	3/4	1/2	1/2-13
CL-6-ASCS		6	1-3/4	1-1/4	2-5/16	1-3/8	9/16		7/8	9/16	1/2-13
CL-8-ASCS	5/8-11	8	2-1/8	1-1/2	3	2	11/16	11/16	1-1/8	3/4	5/8-11

### GOOSENECK — LOCATOR NOSE

PART NO.	STUD SIZE	A	B	C	D	E	F	G	H	J	K	L	M
CL-4-AGNS	1/2-13	4	1-7/8	1/4	1-3/16	1-5/8	9/16	1/2	3/4	13/16	1-7/16	.25	1/2-13
CL-6-AGNS		6	2-1/2	1	1-1/4	1-3/4		5/8	7/8	15/16	1-9/16	.30	1/2-13
CL-8-AGNS	5/8-11	8	3-3/16	1-5/8	1-1/2	2-1/8	11/16	1	1-1/8	1-1/8	2-1/16	.40	5/8-11

### GOOSENECK — PLAIN NOSE

CL-4-AGNS	1/2-13	4	1-7/8	1/4	1-3/16	1-5/8	9/16	1/2	3/4	13/16	1-7/16	—	1/2-13
CL-6-AGNS		6	2-1/2	1	1-1/4	1-3/4		5/8	7/8	15/16	1-9/16	—	1/2-13
CL-8-AGNS	5/8-11	8	3-3/16	1-5/8	1-1/2	2-1/8	11/16	1	1-1/8	1-1/8	2-1/16	—	5/8-11



**Gooseneck  
Locator Nose  
Clamp**



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

(Rev. 12-07)

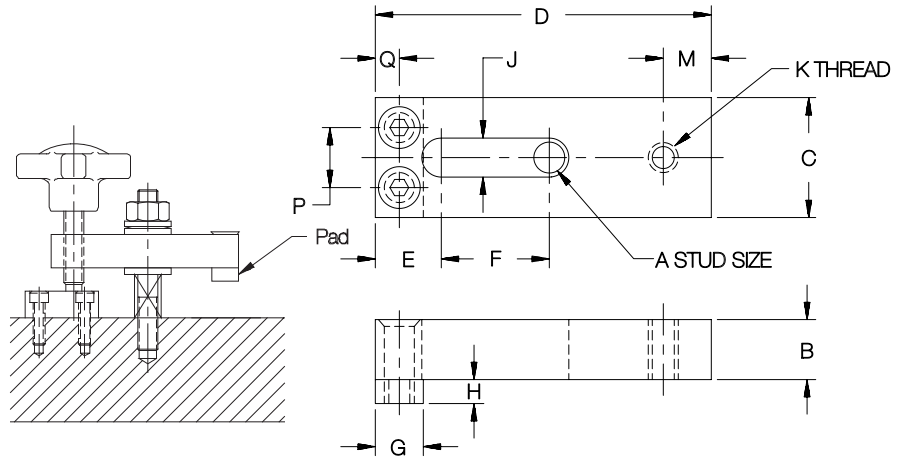
# TAPPED-HEEL PADDED CLAMP STRAPS

STRAP: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 PAD: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



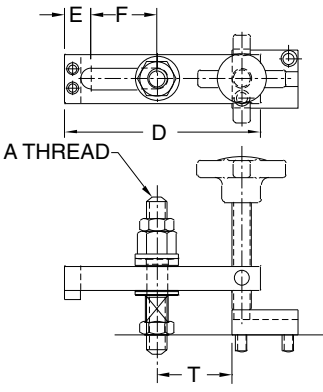
Steel

Tapped-Heel Clamp Strap that features a replaceable clamping pad attached with two screws (furnished). Clamp Strap also easily accepts custom pads or other attachments. Available for 1/4-20 to 1/2-13 stud sizes, most in a choice of several strap lengths.

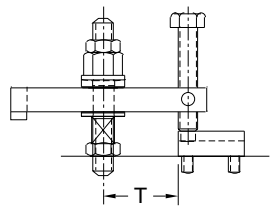


## STRAPS — STEEL WITH STEEL PAD

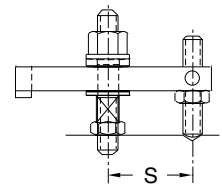
PART NO.	A	B	C	D	E	F	G	H	J	K	M	P	Q
CL-157-CS	1/4-20	3/8	5/8	2	3/8	5/8	1/4	1/8	9/32	1/4-20	7/32	11/32	9/64
CL-158A-CS	5/16-18	1/2	7/8	2-1/2	9/16	3/4	3/8	3/16	11/32	5/16-18	1/4	1/2	3/16
CL-159A-CS				3-1/2		1-1/4							
CL-160A-CS	3/8-16	5/8	1-1/4	3-1/2	11/16	1-1/8	1/2	1/4	27/64	3/8-16	3/8	5/8	1/4
CL-162A-CS				4-1/2		1-5/8							
CL-163A-CS	1/2-13	3/4	1-1/2	4-1/2	7/8	1-1/4	5/8	3/8	17/32	1/2-13	7/16	3/4	5/16
CL-164A-CS				6		2							



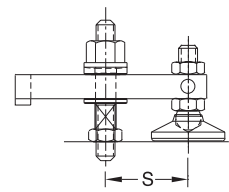
Hand-Knob Clamping Screw  
CL-xx-THPA-HK



Hex-Head Clamping Screw  
CL-xx-THPA-HH



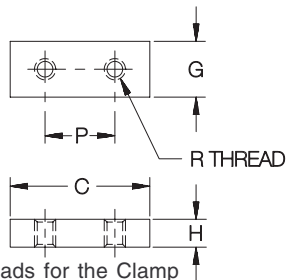
Oval-Point Clamp Rest  
CL-xx-THPA-OP



Leveling Foot  
CL-xx-THPA-LF

## ASSEMBLIES — STEEL WITH STEEL PAD (USA)

PART NO.	A	D	E	F	S	T	CLAMP STRAP	GUIDE BLOCK	SPRING	CLAMPING STUD	NUTS	FLAT WASHER
CL-157-THPA-xx	1/4-20	2	3/8	5/8	25/32	21/32	CL-157-CS	CL-2-GB	CL-5-SPG	CL-1/4-20x2.00-STUD	CL-4-JN CL-1-SNW	CL-7-FW
CL-160A-THPA-xx	3/8-16	3-1/2	11/16	1-1/8	1-5/16	1-1/8	CL-160A-CS	CL-4-GB	CL-7-SPG	CL-3/8-16x3.00-STUD	CL-6-JN CL-2-SNW	CL-1-FW
CL-162A-THPA-xx		4-1/2		1-5/8	1-13/16	1-5/8	CL-162A-CS					
CL-163A-THPA-xx	1/2-13	4-1/2	7/8	1-1/4	1-15/16	1-11/16	CL-163A-CS	CL-8-GB	CL-9-SPG	CL-1/2-13x4.00-STUD	CL-8-JN CL-3-SNW	CL-2-FW
CL-164A-THPA-xx		6		2	2-11/16	2-7/16	CL-164A-CS					



Replacement or optional pads for the Clamp Straps shown above. Available in steel, reinforced plastic, or brass.

## REPLACEMENT PADS

PART NO. STEEL PAD	PART NO. PLASTIC PAD	PART NO. BRASS PAD	STUD SIZE	C	G	H	P	R
CL-40-CP	CL-20-CP	CL-30-CP	1/4-20	5/8	1/4	1/8	11/32	#5-40
CL-41-CP	CL-21-CP	CL-31-CP	5/16-18	7/8	3/8	3/16	1/2	#8-32
CL-42-CP	CL-22-CP	CL-32-CP	3/8-16	1-1/4	1/2	1/4	5/8	#10-24
CL-43-CP	CL-23-CP	CL-33-CP	1/2-13	1-1/2	5/8	3/8	3/4	1/4-20



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# SWIVEL-HEEL CLAMP STRAPS

STRAP: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
SEE PAGES 55, 59, 214-219, 221, 228-230, AND 231-232 FOR OTHER MATERIAL SPECIFICATIONS

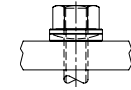
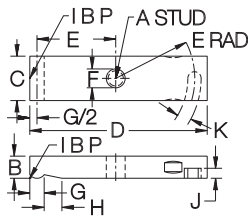


Steel

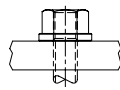
Clamp strap that swings out of the way for clear loading. Available for 1/4-20 (M6) to 3/4-10 (M20) stud sizes, each in several strap lengths. See below for complete clamp-strap assemblies using the straps shown above. Select any of the six nut/knob combinations shown by adding the appropriate suffix to the part number. Other Stud and Clamp Rest lengths are available (order pieces individually).

## STRAPS — STEEL

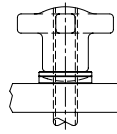
PART NO.	A	B	C	D	E	F	G	H	J	K
CL-125-CS	1/4-20 or M6	3/8	5/8	2	27/32	9/32	1/4	11/32	1/8	3/16
CL-127-CS				3	1-7/32					
CL-129-CS	3/8-16 or M10	1/2	1-1/8	4	1-23/32	27/64	13/32	1/2	9/32	3/8
CL-131-CS				5	2-7/32					
CL-134-CS				3-1/2	1-15/32					
CL-135-CS	1/2-13 or M12	5/8	1-1/4	4	1-23/32	17/32	13/32	1/2	9/32	3/8
CL-137-CS				5	2-7/32					
CL-139-CS				6	2-23/32					
CL-140-CS				4	1-5/8					
CL-142-CS	5/8-11 or M16	7/8	1-1/2	5	2-1/8	21/32	1/2	19/32	9/32	1/2
CL-144-CS				6	2-5/8					
CL-152-CS				6	2-5/8					
CL-154-CS	3/4-10 or M20	1	1-3/4	7	3-1/8	13/16	1/2	19/32	5/16	1/2
CL-156-CS				8	3-5/8					



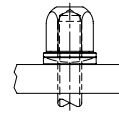
Spherical Nut & Washer  
CL-xx-SWHA-1



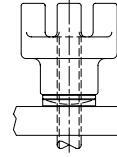
Flange Nut  
CL-xx-SWHA-2



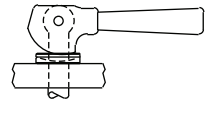
Hand Knob with Spherical Washer  
CL-xx-SWHA-4



Acorn Nut with Spherical Washer  
CL-xx-SWHA-5



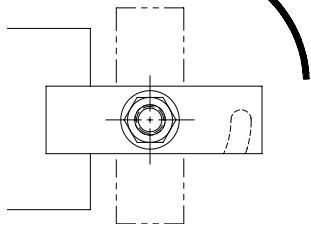
Bar Knob with Spherical Washer\*  
CL-xx-SWHA-6



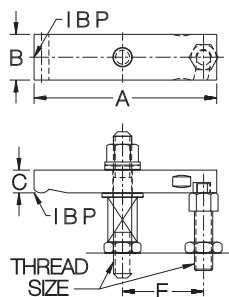
Cam Handle with Spherical Washer  
CL-xx-SWHA-7

## ASSEMBLIES — STEEL (USA)

PART NO.	THREAD SIZE	A	B	C	E	CLAMP STRAP	CLAMP REST	FLAT WASHER	STUD & SPRING
CL-0-SWHA-x	1/4-20	2	5/8	3/8	27/32	CL-125-CS	CL-1-CR	CL-7-FW	CL-1/4-20x2.50-STUD CL-5-SPG
CL-2-SWHA-x		3			1-7/32	CL-127-CS			
CL-4-SWHA-x	3/8-16	4	1-1/8	1/2	1-23/32	CL-129-CS	CL-2-CR	CL-1-FW	CL-3/8-16x3.00-STUD CL-7-SPG
CL-6-SWHA-x		5			2-7/32	CL-131-CS			
CL-9-SWHA-x	1/2-13	3-1/2	1-1/4	5/8	1-15/32	CL-134-CS	CL-4-CR	CL-2-FW	CL-1/2-13x4.00-STUD CL-9-SPG
CL-10-SWHA-x		4			1-23/32	CL-135-CS			
CL-12-SWHA-x		5			2-7/32	CL-137-CS			
CL-14-SWHA-x		6			2-23/32	CL-139-CS			
CL-19-SWHA-x	5/8-11	4	1-1/2	7/8	1-5/8	CL-140-CS	CL-6-CR	CL-3-FW	CL-5/8-11x4.50-STUD CL-11-SPG
CL-17-SWHA-x		5			2-1/8	CL-142-CS			
CL-15-SWHA-x		6			2-5/8	CL-144-CS			
CL-27-SWHA-x	3/4-10	6	1-3/4	1	2-5/8	CL-152-CS	CL-8-CR	CL-4-FW	CL-3/4-10x5.00-STUD CL-13-SPG
CL-29-SWHA-x		7			3-1/8	CL-154-CS			
CL-31-SWHA-x		8			3-5/8	CL-156-CS			



Steel



## ASSEMBLIES — STEEL (METRIC)

CLM-0-SWHA-x	M6	2	5/8	3/8	27/32	CL-125-CS	CLM-1-CR	CL-7-FW	CLM-6x65-STUD CL-5-SPG
CLM-2-SWHA-x		3			1-7/32	CL-127-CS			
CLM-4-SWHA-x	M10	4	1-1/8	1/2	1-23/32	CL-129-CS	CLM-2-CR	CL-1-FW	CLM-10x80-STUD CL-7-SPG
CLM-6-SWHA-x		5			2-7/32	CL-131-CS			
CLM-9-SWHA-x	M12	3-1/2	1-1/4	5/8	1-15/32	CL-134-CS	CLM-4-CR	CL-2-FW	CLM-12x95-STUD CL-9-SPG
CLM-10-SWHA-x		4			1-23/32	CL-135-CS			
CLM-12-SWHA-x		5			2-7/32	CL-137-CS			
CLM-14-SWHA-x		6			2-23/32	CL-139-CS			
CLM-19-SWHA-x	M16	4	1-1/2	7/8	1-5/8	CL-140-CS	CLM-5-CR	CL-3-FW	CLM-16x110-STUD CL-11-SPG
CLM-17-SWHA-x		5			2-1/8	CL-142-CS			
CLM-15-SWHA-x		6			2-5/8	CL-144-CS			
CLM-27-SWHA-x	M20	6	1-3/4	1	2-5/8	CL-152-CS	CLM-8-CR	CLM-10-FW	CLM-20x125-STUD CL-13-SPG
CLM-29-SWHA-x		7			3-1/8	CL-154-CS			
CLM-31-SWHA-x		8			3-5/8	CL-156-CS			

\* Available in thread sizes 3/8-16 and above (M10 and above in metric).

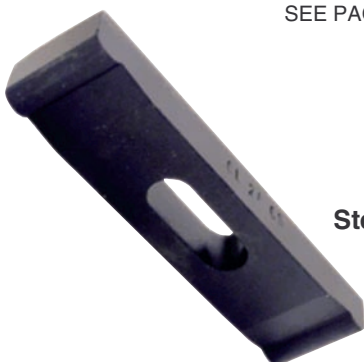


## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

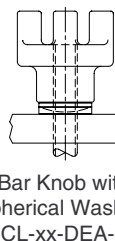
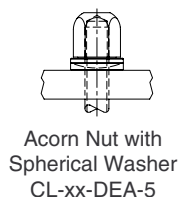
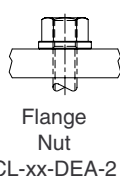
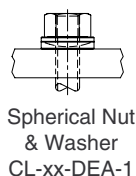
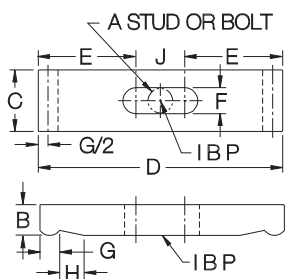
# DOUBLE-END CLAMP STRAPS

STRAP: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 SEE PAGES 59, 69, 214-219, 221 AND 232 FOR OTHER MATERIAL SPECIFICATIONS



Steel

Clamp strap with two clamping ends, for holding two workpieces simultaneously. Available for 1/4-20 (M6) to 3/4-10 (M20) stud sizes, each in several strap lengths.



## ASSEMBLIES — STEEL (USA)

PART NO.	THREAD SIZE	A	B	C	CLAMP STRAP	FLAT WASHER	STUD & SPRING
CL-0-DEA-x	1/4-20	2	5/8	3/8	CL-23A-CS	CL-7-FW	CL-1/4-20x2.50-STUD CL-5-SPG
CL-1-DEA-x		2-1/2			CL-23B-CS		
CL-1A-DEA-x	5/16-18	2	3/4	1/2	CL-23C-CS	CL-14-FW	CL-5/16-18x3.00-STUD CL-6-SPG
CL-1B-DEA-x		3			CL-23D-CS		
CL-2-DEA-x	3/8-16	3	1-1/8	1/2	CL-23-CS	CL-1-FW	CL-3/8-16x3.00-STUD CL-7-SPG
CL-4-DEA-x		4			CL-24-CS		
CL-6-DEA-x	1/2-13	5	1-1/4	5/8	CL-25-CS	CL-2-FW	CL-1/2-13x4.00-STUD CL-9-SPG
CL-8-DEA-x		4			CL-27-CS		
CL-10-DEA-x	5/8-11	5	1-1/2	7/8	CL-28-CS	CL-3-FW	CL-5/8-11x4.50-STUD CL-11-SPG
CL-12-DEA-x		6			CL-30-CS		
CL-15-DEA-x	3/4-10	5	1-3/4	1	CL-32A-CS	CL-4-FW	CL-3/4-10x5.00-STUD CL-13-SPG
CL-13-DEA-x		6			CL-33-CS		
CL-20-DEA-x	3/4-10	6	1-3/4	1	CL-37-CS	CL-4-FW	CL-3/4-10x5.00-STUD CL-13-SPG
CL-22-DEA-x		7			CL-38-CS		
CL-23-DEA-x		8			CL-39-CS		

## ASSEMBLIES — STEEL (METRIC)

CLM-xx-DEA-x	M6	2	5/8	3/8	CL-23A-CS	CL-7-FW	CLM-6x65-STUD CL-5-SPG
CLM-1-DEA-x	M8	2-1/2	3/4	1/2	CL-23B-CS	CL-14-FW	CLM-8x80-STUD CL-6-SPG
CLM-1A-DEA-x		2			CL-23C-CS		
CLM-1B-DEA-x	M10	3	1-1/8	1/2	CL-23D-CS	CL-1-FW	CLM-10x80-STUD CL-7-SPG
CLM-2-DEA-x		3			CL-23-CS		
CLM-4-DEA-x	M12	4	1-1/4	5/8	CL-24-CS	CL-2-FW	CLM-12x95-STUD CL-9-SPG
CLM-6-DEA-x		5			CL-25-CS		
CLM-8-DEA-x	M16	4	1-1/2	7/8	CL-27-CS	CL-3-FW	CLM-16x110-STUD CL-11-SPG
CLM-10-DEA-x		5			CL-30-CS		
CLM-12-DEA-x	M20	6	1-3/4	1	CL-32A-CS	CLM-10-FW	CLM-20x125-STUD CL-13-SPG
CLM-15-DEA-x		5			CL-33-CS		
CLM-13-DEA-x	M20	6	1-3/4	1	CL-37-CS	CLM-10-FW	CLM-20x125-STUD CL-13-SPG
CLM-20-DEA-x		7			CL-38-CS		
CLM-22-DEA-x		8			CL-39-CS		

\* Available in thread sizes 3/8-16 and above (M10 and above in metric).

Steel

A complete clamp-strap assembly using one of the straps shown above. Select any of the six nut/knob combinations shown above by adding the appropriate suffix to the part number. Other stud lengths are available (order pieces individually).



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# DOUBLE-END GOOSENECK CLAMP STRAPS

**NEW!**

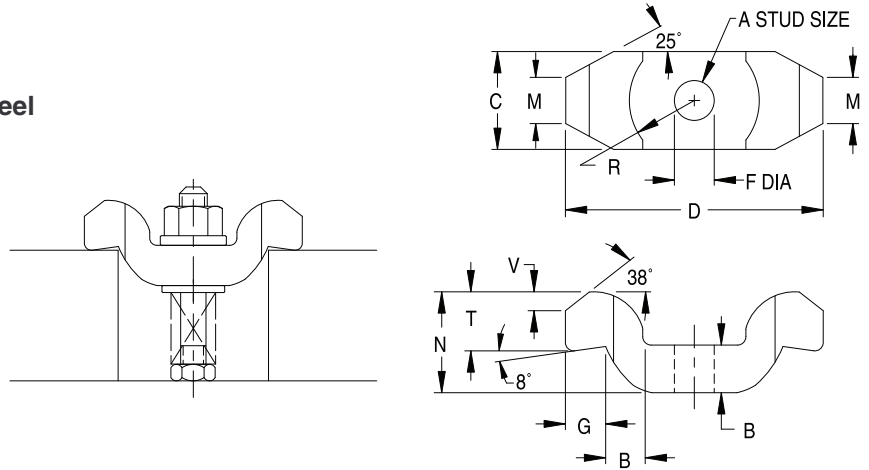
STRAP: ALLOY STEEL, BLACK OXIDE FINISH

SEE PAGES 56, 69, 214-216, 218-219, 225, 230, and 249 FOR OTHER MATERIAL SPECIFICATIONS



Steel

Gooseneck version of our Double-End Clamp Straps. This design recesses the clamping nut to provide a low overall profile. Double-End Clamps have two clamping ends, for holding two workpieces simultaneously. Turn strap 90° for clear loading. Available to fit 1/2-13 and 5/8-11 studs (M12 and M16 in metric).

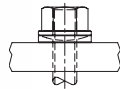


### STRAPS – STEEL

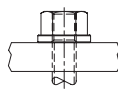
PART NO.	A	B	C	D	F	G	M	N	R	T	V
CL-842-GCS	1/2-13, 5/8-11, M12, or M16	.79	1.58	3.94	.67	.63	.79	1.58	.94	.90	.34



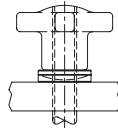
Double-End Gooseneck Clamp Straps are also available as a complete assembly. Select any of the four nut/knob combinations shown below by adding the appropriate suffix to the part number. Other lengths of Clamping Studs and Clamp Rests are available (order pieces individually).



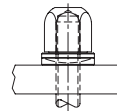
Spherical Nut & Washer  
CL-xx-GCSA-1



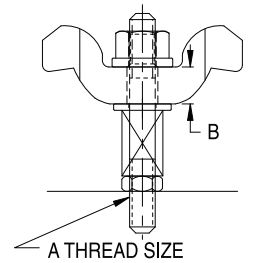
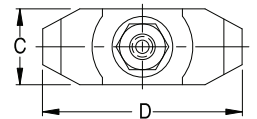
Flange Nut  
CL-xx-GCSA-2



Hand Knob with Spherical Washer  
CL-xx-GCSA-4



Acorn Nut with Spherical Washer  
CL-xx-GCSA-5



PART NO.	A	B	C	D	CLAMP STRAP	FLAT WASHER	CLAMP SPRING	CLAMPING STUD	JAM NUT
CL-842-GCSA-x	1/2-13	.79	1.58	3.94	CL-842-GCS	CL-2-FW	CL-9-SPG	CL-1/2-13X4.00-STUD	CL-8-JN
CL-1042-GCSA-x	5/8-11					CL-3-FW	CL-11-SPG	CL-5/8-11X4.50-STUD	CL-10-JN

### ASSEMBLIES – STEEL (METRIC)

PART NO.	A	B	C	D	CLAMP STRAP	FLAT WASHER	CLAMP SPRING	CLAMPING STUD	JAM NUT
CL-842-GCSA-x	M12	.79	1.58	3.94	CL-842-GCS	CL-2-FW	CL-9-SPG	CLM-12X95-STUD	CL-8-JN
CL-1042-GCSA-x	M16					CL-3-FW	CL-11-SPG	CLM-16X10-STUD	CL-10-JN

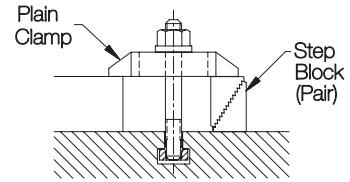
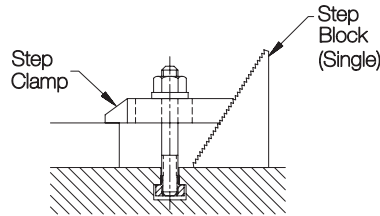


**MANUFACTURING CO.**

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

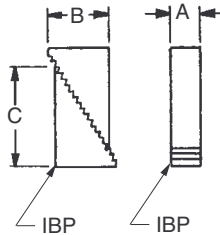
# STEP BLOCKS & CLAMPS

11L17 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



## Step Blocks (pair)

Serrated block that can be used individually or in pairs, as a clamp rest. (One part number consists of a pair of blocks). Use a single block with Step Clamps, or a pair of blocks with Plain Clamps. All blocks and clamps are made from top-grade steel.

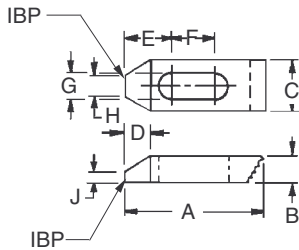


## STEP BLOCKS (PAIR)

PART NO.	A	B	C	HEIGHT RANGE
CL-10-BS	1	.681	1.104	3/4 to 1-1/2
CL-20-BS		1.068	1.747	1-1/8 to 2-1/2
CL-30-BS		2.355	3.980	2-1/2 to 6
CL-40-BS	1-1/2	1.454	2.390	1-3/4 to 3-3/4
CL-50-BS		2.355	3.890	2-1/2 to 6
CL-60-BS		3.385	5.604	3-1/2 to 9
CL-70-BS	2	1.454	2.390	1-3/4 to 3-3/4
CL-80-BS		2.355	3.890	2-1/2 to 6
CL-90-BS		3.385	5.604	3-1/2 to 9



## Step Clamp

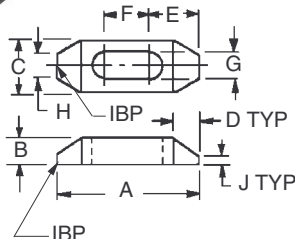


## STEP CLAMPS

PART NO.	STUD SIZE	A	B	C	D	E	F	G	H	J
CL-32-STC	3/8 or M10	2-1/2	1/2	1	7/16	7/8	13/16	7/16	7/16	1/4
CL-34-STC		4	5/8		11/16	1-3/16	1-5/16		3/8	
CL-36-STC		6	3/4	1-1/8	3/4	1-1/8	2-3/16		9/16	3/16
CL-42-STC	1/2 or M12	2-1/2	1/2	1-1/8	7/16	29/32	11/16	9/16	1/2	1/4
CL-44-STC		4	3/4	1-1/4	11/16	1-7/32	1-3/16		7/16	5/16
CL-46-STC	5/8 or M16	6	7/8	1-1/2	3/4	1-5/32	2-1/8	11/16	3/4	3/8
CL-52-STC		2-1/2	5/8		1-1/4	3/8	15/16		9/16	11/16
CL-54-STC		4	3/4	1-1/2	11/16	1-1/4	1-1/16		9/16	7/16
CL-56-STC	3/4 or M20	6	7/8	1-1/2	3/4	1-9/32	1-15/16	13/16	5/8	5/16
CL-64-STC		4	3/4		1-1/2	13/16	1-1/4		1-7/8	3/4
CL-66-STC		6	1	1-3/4	3/4	1-7/8	2-3/16		3/4	5/8
CL-68-STC	8	1-1/8	1-3/4	3/4	1-29/32	2-3/16	3/4	5/8		



## Plain Clamp



## PLAIN CLAMPS

PART NO.	STUD SIZE	A	B	C	D	E	F	G	H	J
CL-32-PC	3/8 or M10	2-1/2	1/2	1	7/16	27/32	13/16	7/16	7/16	1/4
CL-34-PC		4	5/8		11/16	1-1/32	1-7/16		3/8	
CL-36-PC		6	3/4	1-1/8	3/4	1-5/32	2-3/16		9/16	3/16
CL-42-PC	1/2 or M12	2-1/2	1/2	1-1/8	7/16	29/32	11/16	9/16	1/2	1/4
CL-44-PC		4	3/4	1-1/4	11/16	1-5/32	1-5/16		7/16	5/16
CL-46-PC	5/8 or M16	6	7/8	1-1/2	3/4	1-9/32	2-1/16	11/16	3/4	3/8
CL-52-PC		2-1/2	5/8		1-1/4	3/8	31/32		9/16	11/16
CL-54-PC		4	3/4	1-1/2	11/16	1-9/32	1-3/16		9/16	7/16
CL-56-PC	3/4 or M20	6	7/8	1-1/2	3/4	1-13/32	1-15/16	13/16	5/8	5/16
CL-64-PC		4	3/4		1-1/2	13/16	1-11/32		1-1/16	3/4
CL-66-PC		6	1	1-3/4	3/4	1-15/32	1-15/16		3/4	5/8
CL-68-PC	8	1-1/8	1-3/4	3/4	1-29/32	2-3/16	3/4	5/8		

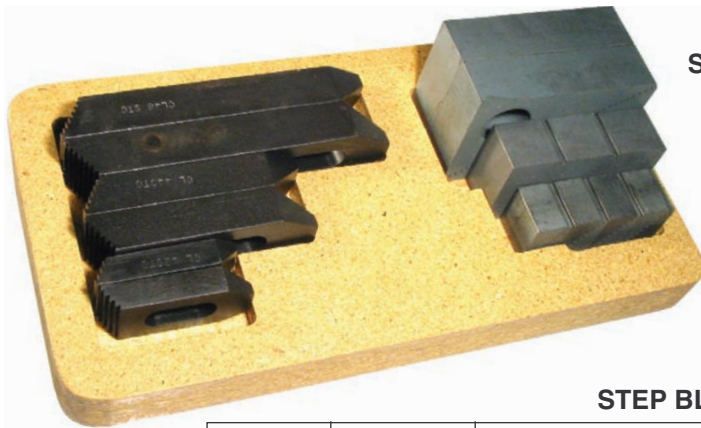


## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# STEP BLOCKS & CLAMPS

11L17 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



**Step Block & Clamp Set**

An assortment of Step Clamps and Step Blocks in a handy wooden holder. Available for stud sizes from 3/8-16 to 3/4-10 (M10 to M20 metric studs).

## STEP BLOCK & CLAMP SETS

PART NO.	STUD SIZE	STEP CLAMPS (2) EACH		STEP BLOCK PAIRS (2) EACH	HOLDER
CL-10-SBC	3/8-16 or M10	CL-32-STC, CL-34-STC, CL-36-STC	STANDARD	CL-10-BS, CL-20-BS, CL-30-BS	CL-1-BSH
CL-20-SBC	1/2-13 or M12	CL-42-STC, CL-44-STC, CL-46-STC	STANDARD	CL-10-BS, CL-20-BS, CL-30-BS	CL-1-BSH
CL-40-SBC			HIGH-RISE	CL-40-BS, CL-50-BS, CL-60-BS	CL-2-BSH
CL-30-SBC	5/8-11 or M16	CL-52-STC, CL-54-STC, CL-56-STC	STANDARD	CL-10-BS, CL-20-BS, CL-30-BS	CL-1-BSH
CL-50-SBC			HIGH-RISE	CL-40-BS, CL-50-BS, CL-60-BS	CL-2-BSH
CL-60-SBC	3/4-10 or M20	CL-64-STC, CL-66-STC, CL-68-STC	HIGH-RISE	CL-40-BS, CL-50-BS, CL-60-BS	CL-3-BSH



**Step Block Set**

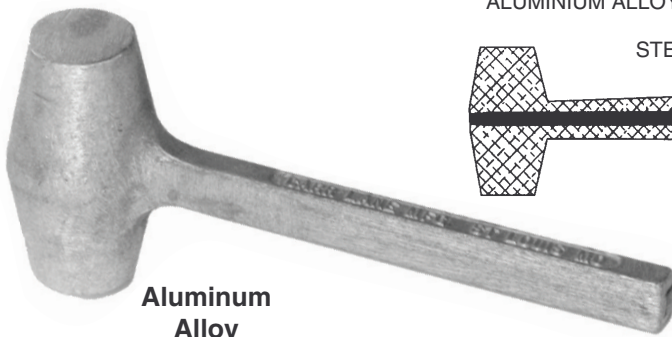
A complete assortment of Step Blocks in a handy wooden box.

## STEP BLOCK SETS

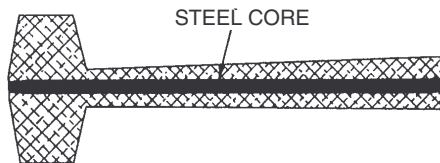
PART NO.	STEP BLOCK PAIRS	BOX
CL-30-SBS	(4)CL-10-BS, (4)CL-20-BS, (2)CL-30-BS	CL-3-SBB

# NO-MAR HAMMERS

ALUMINIUM ALLOY WITH STEEL CORE



**Aluminum Alloy**



Economical aluminium alloy hammer. Excellent alternative to old-fashioned lead hammers, to eliminate the risk of lead contamination. One-piece cast construction with a steel core for extra strength. Applications include metalworking, tooling, automotive assembly and repair work, straightening work, car body work, and mold construction. Available in two sizes.

PART NO.	WEIGHT	FACE DIA	HANDLE LENGTH TO CENTERLINE OF FACE
CL-1-NMH	2 lb	1-1/2	10-1/2
CL-2-NMH	3.5 lb	2	11



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# TINY VISE™ EDGE CLAMPS

BODY: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
THRUST WASHER: 1144 STEEL, BLACK OXIDE FINISH

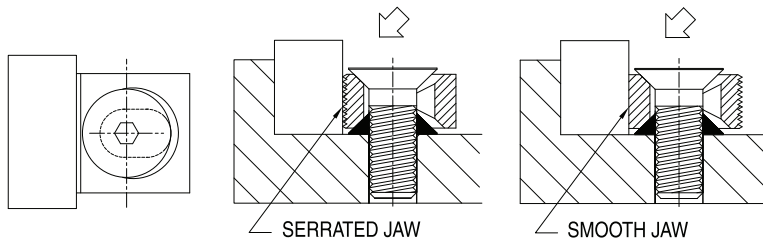
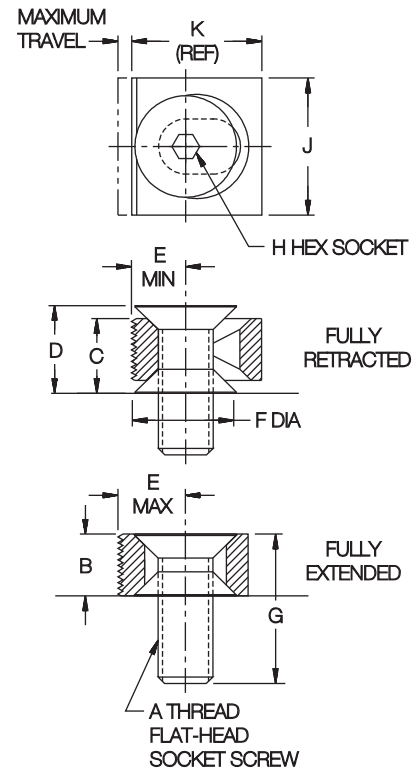
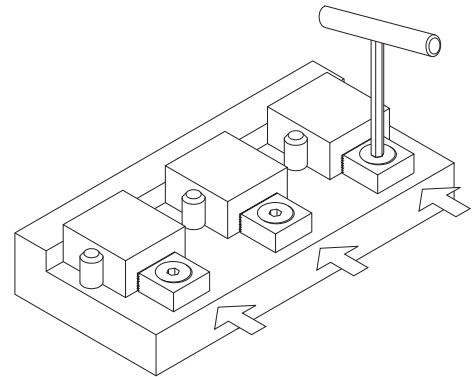


Serrated Jaw and Smooth Jaw (Reversible)

An important new clamping development! These patented new mini edge clamps, ideal for fixturing small parts, offer major functional and durability improvements over earlier designs:

1. Clamping force is applied by positive screw action with the easy turn of a hex wrench (not with an unreliable eccentric cam, as used in other designs). A high-strength flat-head socket screw engages a mating offset countersink to exert strong clamping force.
2. Only TINY VISE mini edge clamps truly exert downthrust force *on the workpiece*, to prevent it from lifting. A thrust washer underneath the clamp engages a second mating countersink to provide downward action.

TINY VISE Edge Clamps are available in a wide range of sizes, from a miniature #8-32 thread size, up to a powerful 1"-8 thread size with 2,500 lbs clamping force. Spare thrust washers are available as accessories (e.g. CL-2-TV-WASH). Patent No. 5,624,106



Unlike other mini edge clamps, TINY VISE Edge Clamps truly exert downward force *on the workpiece*, to prevent it from lifting. The serrated face provides maximum gripping, while the smooth face (turn 180°) avoids marring finished parts.

## SERRATED JAW AND SMOOTH JAW (REVERSIBLE)

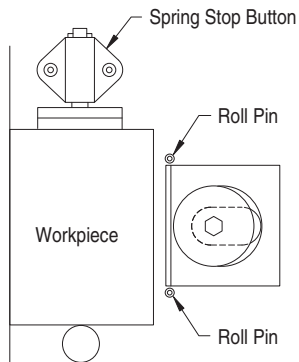
PART NO.	A	B	C	D	E			F DIA	G	H	J	K	MAXIMUM TRAVEL	RECOMMENDED TORQUE (FT-LBS)*	APPROX. HORIZONTAL CLAMPING FORCE AT RECOMMENDED TORQUE (LBS)*
					MIN	MID RANGE	MAX								
CL-2-TV	#8-32	.250	.319	.382	.175	.205	.235	.335	5/8	3/32	9/16	.470	.060	.07	60
CL-3-TV	#10-32	.312	.390	.459	.208	.242	.274	.390	3/4	1/8	5/8	.550	.066	.10	75
CL-4-TV	1/4-20	.375	.467	.552	.280	.320	.360	.510	7/8	5/32	7/8	.720	.080	.25	130
CL-5-TV	5/16-18	.438	.550	.652	.338	.386	.434	.640	1	3/16	1	.870	.096	.55	240
CL-6-TV	3/8-16	.500	.627	.746	.390	.445	.500	.742	1-1/8	7/32	1-1/8	1.000	.110	1.0	370
CL-8-TV	1/2-13	.562	.702	.833	.474	.534	.594	.897	1-3/8	5/16	1-1/4	1.187	.120	3.0	800
CL-10-TV	5/8-11	.750	.901	1.039	.620	.685	.750	1.148	1-5/8	3/8	1-5/8	1.500	.130	5.5	1,200
CL-12-TV	3/4-10	.875	1.059	1.234	.740	.820	.900	1.394	2	1/2	2	1.800	.160	10	1,800
CL-16-TV	1"-8	1.125	1.355	1.573	.988	1.088	1.188	1.890	2-1/2	5/8	2-1/2	2.375	.200	18	2,500

\*Recommended torque and clamping force are at 1/3 of yield strength, leaving 2/3 of holding capacity to resist external cutting forces, etc.

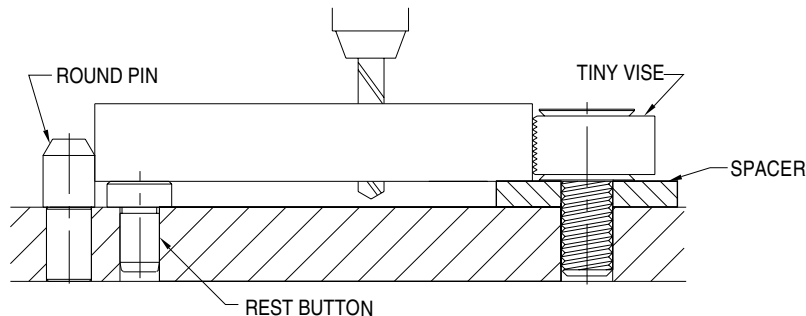


**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# TINY VISE™ EDGE CLAMPS



Roll pins can be installed to keep the Tiny Vise perfectly aligned for workpiece loading (especially helpful on horizontal machining centers).

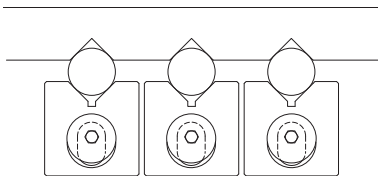
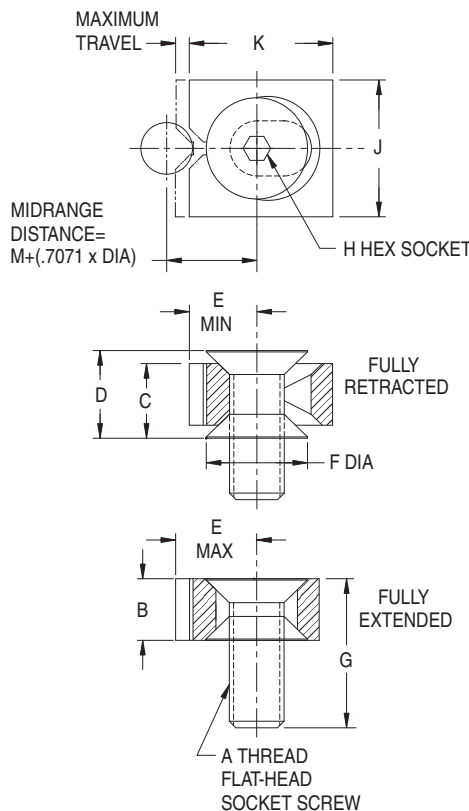


For a small amount of cutting-tool clearance, TINY VISE Edge Clamps can be mounted with a spacer underneath, using a longer screw. For greater clearance, clamps should be mounted into a tapped riser block fastened to the plate, to reduce bending stress on the screw.

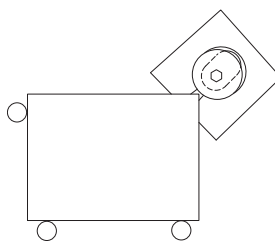


**NEW!**

The new V-jaw version of our popular Tiny Vise is ideal for clamping round workpieces. The 90° V jaw can also be used to clamp a rectangular workpiece from two directions with a single clamp at its corner.



Multiple workpieces can be clamped extremely close together.



A rectangular workpiece can be clamped from two directions with a single clamp.

## V JAW

PART NO.	A	B	C	D	E			F DIA	G	H	J	K	M	MAXIMUM WORKPIECE DIAMETER	MAXIMUM TRAVEL	RECOMMENDED TORQUE (FT-LBS)*	APPROX. HORIZONTAL CLAMPING FORCE AT RECOMMENDED TORQUE (LBS)*
					MIN	MID RANGE	MAX										
CL-2-TVR	#8-32	.250	.319	.382	.292	.322	.352	.335	5/8	3/32	.625	.620	.212	3/8	.060	.07	60
CL-3-TVR	#10-32	.312	.390	.459	.375	.407	.440	.390	3/4	1/8	.750	.750	.253	1/2	.066	.10	75
CL-4-TVR	1/4-20	.375	.467	.552	.453	.493	.533	.510	7/8	5/32	.875	.900	.315	19/32	.080	.25	130
CL-5-TVR	5/16-18	.438	.550	.652	.562	.611	.660	.640	1	3/16	1.000	1.100	.410	11/16	.096	.55	240
CL-6-TVR	3/8-16	.500	.627	.746	.687	.742	.797	.742	1-1/8	7/32	1.250	1.300	.454	15/16	.110	1.0	370
CL-8-TVR	1/2-13	.562	.702	.833	.812	.872	.932	.897	1-3/8	5/16	1.500	1.530	.557	1-1/32	.120	3.0	800
CL-10-TVR	5/8-11	.750	.901	1.039	1.124	1.157	1.254	1.148	1-5/8	3/8	2.000	2.100	.692	1-9/16	.130	5.5	1,200
CL-12-TVR	3/4-10	.875	1.059	1.234	1.344	1.424	1.504	1.394	2	1/2	2.500	2.500	.848	1-13/16	.160	10	1,800
CL-16-TVR	1"-8	1.125	1.355	1.573	1.687	1.782	1.887	1.890	2-1/2	5/8	3.000	3.200	1.137	2-1/16	.200	18	2,500

\*Recommended torque and clamping force are at 1/3 of yield strength, leaving 2/3 of holding capacity to resist external cutting forces, etc.



**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# TINY VISE™ DOUBLE EDGE CLAMPS

BODY: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH; SPRINGS: 302 STAINLESS STEEL  
THRUST WASHERS: 1144 STEEL, BLACK OXIDE FINISH; GUIDE PINS: 17-4PH STAINLESS STEEL.



Two Serrated Jaws

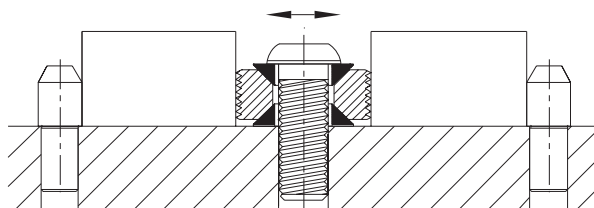


Two Smooth Jaws

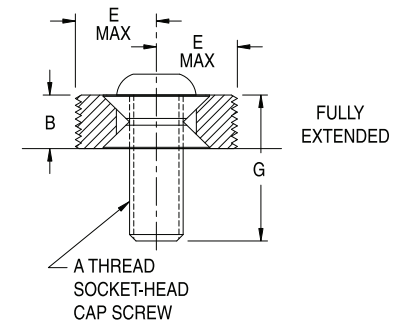
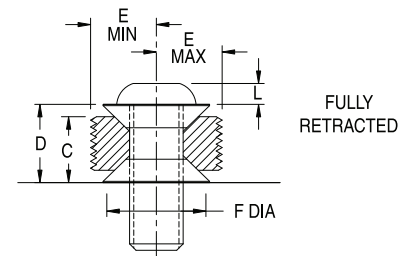
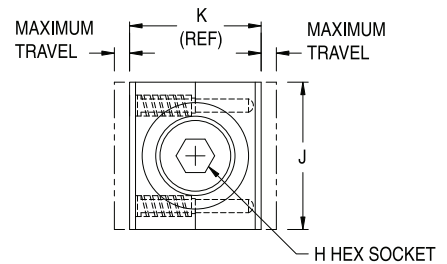
These Double Edge Clamps allow clamping two workpieces at the same time with the same great benefits of the standard TINY VISE (page 200). These double clamps offer the following major improvements over earlier designs:

1. Clamping force is applied to two workpieces simultaneously by positive screw action with the turn of a hex wrench. A high-strength cap screw and thrust washer engage a mating offset countersink to exert strong clamping force.
2. Only TINY VISE mini edge clamps truly exert down-thrust force *on the workpiece*, to prevent it from lifting. A thrust washer underneath the clamp engages a second mating countersink to provide downward action.
3. Only TINY VISE Double Edge Clamps compensate for size variation when clamping two workpieces. Thrust washers have ID clearance to enable them to float horizontally, allowing both clamping jaws to contact the part simultaneously. This ensures that both parts are securely clamped with equal force.

TINY VISE Double Edge Clamps are available in several sizes, from 5/16-18 up to a powerful 1"-8 thread size with 12,000 lbs clamping force (M8 to M24 in metric). Note: these clamps should always be used to hold two workpieces, not just one; otherwise, recommended torque and clamping force will be significantly reduced. Spare thrust washers are available as accessories (e.g. CL-50-TV-WASH, two required per clamp). Patent No. 5,624,106.



Thrust washers have ID clearance to enable them to float horizontally, allowing both clamping jaws to contact their workpiece simultaneously even if parts are slightly different in size. This ensures that both parts are securely clamped with equal force.



## USA

PART NO. SERRATED JAWS	PART NO. SMOOTH JAWS	A	B	C	D	E			F DIA	G	H	J	K	L	ALLOWABLE WORKPIECE SIZE DIFFERENTIAL	MAXIMUM TRAVEL (WITH NO SIZE DIFFERENTIAL)	RECOM-MENDED TORQUE (FT-LBS)*	APPROX. HORIZONTAL CLAMPING FORCE AT RECOMMENDED TORQUE (LBS)*
						MIN	RANGE	MAX										
CL-50-TV	CL-55-TV	5/16-18	.375	.486	.597	.422	.470	.518	.625	1	3/16	1	.844	.16	.048	.096	7	1,500
CL-60-TV	CL-65-TV	3/8-16	.438	.570	.684	.520	.572	.625	.750	1-1/8	7/32	1-1/4	1.250	.19	.052	.105	12	1,800
CL-80-TV	CL-85-TV	1/2-13	.500	.635	.770	.641	.698	.755	.875	1-1/4	5/16	1-3/8	1.282	.26	.060	.114	15	2,100
CL-100-TV	CL-105-TV	5/8-11	.625	.765	.905	.690	.750	.810	1.125	1-1/2	3/8	1-1/2	1.380	.32	.078	.120	36	4,000
CL-160-TV	CL-165-TV	1"-8	1.000	1.159	1.318	1.109	1.178	1.247	1.875	2-1/4	3/4	2-1/2	2.218	1.00	.094	.138	175	12,000

## METRIC

CLM-50-TV	CLM-55-TV	M8	.375	.486	.597	.422	.470	.518	.625	1	5mm	1	.844	.16	.048	.096	7	1,500
CLM-60-TV	CLM-65-TV	M10	.438	.570	.684	.520	.572	.625	.750	1-1/8	6mm	1-1/4	1.250	.19	.052	.105	12	1,800
CLM-80-TV	CLM-85-TV	M12	.500	.635	.770	.641	.698	.755	.875	1-1/4	8mm	1-3/8	1.282	.26	.060	.114	15	2,100
CLM-100-TV	CLM-105-TV	M16	.625	.765	.905	.690	.750	.810	1.125	1-1/2	10mm	1-1/2	1.380	.32	.078	.120	36	4,000
CLM-160-TV	CLM-160-TV	M24	1.000	1.159	1.318	1.109	1.178	1.247	1.875	2-1/4	19mm	2-1/2	2.218	1.00	.094	.138	175	12,000

\*Recommended torque and clamping force are at 1/3 of yield strength, leaving 2/3 of holding capacity to resist external cutting forces, etc.



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

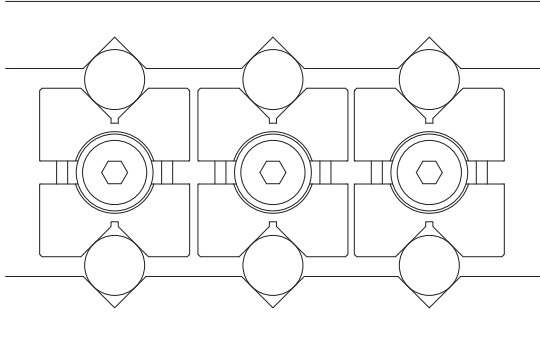
# TINY VISE™ DOUBLE EDGE CLAMPS



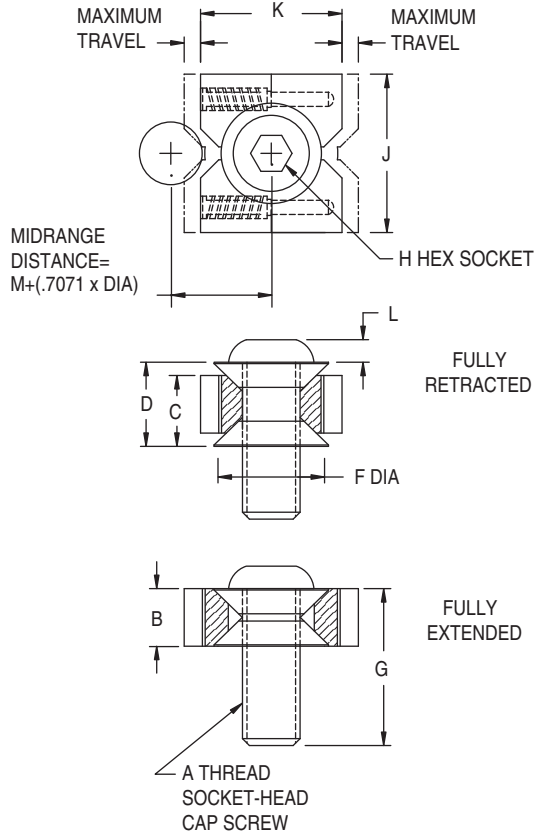
**NEW!**

### Two V Jaws

The new V-jaw version of our popular Tiny Vise is ideal for clamping round workpieces. The 90° V jaw can also be used to clamp a rectangular workpiece from two directions with a single clamp at its corner. Double edge clamps allow clamping two workpieces at the same time with equal force.



Multiple workpieces can be clamped extremely close together.



### V JAWS (USA)

PART NO.	A	B	C	D	F DIA	G	H	J	K	L	M	MAXIMUM WORKPIECE DIAMETER	ALLOWABLE WORKPIECE SIZE DIFFERENTIAL	MAX. TRAVEL (WITH NO SIZE DIFFERENTIAL)	RECOMMENDED TORQUE (FT-LBS)*	APPROX. HORIZONTAL CLAMPING FORCE AT RECOMMENDED TORQUE (LBS)*
CL-50-TVR	5/16-18	.375	.486	.597	.625	1	3/16	1-1/4	1.308	.16	.421	3/4	.048	.096	7	1,500
CL-60-TVR	3/8-16	.438	.570	.684	.750	1-1/8	7/32	1-3/8	1.478	.19	.482	27/32	.052	.105	12	1,800
CL-80-TVR	1/2-13	.500	.635	.770	.875	1-1/4	5/16	1-1/2	1.706	.26	.569	15/16	.060	.114	15	2,100
CL-100-TVR	5/8-11	.625	.765	.905	1.125	1-1/2	3/8	1-3/4	2.104	.32	.706	1-1/8	.078	.120	36	4,000
CL-160-TVR	1"-8	1.000	1.159	1.318	1.875	2-1/4	3/4	2-1/2	3.350	1.00	1.119	1-3/4	.094	.138	175	12,000

### V JAWS (METRIC)

CLM-50-TVR	M8	.375	.486	.597	.625	1	3/16	1-1/4	1.308	.16	4.21	3/4	.048	.096	7	1,500
CLM-60-TVR	M10	.438	.570	.684	.750	1-1/8	7/32	1-3/8	1.478	.19	.482	27/32	.052	.105	12	1,800
CLM-80-TVR	M12	.500	.635	.770	.875	1-1/4	5/16	1-1/2	1.706	.26	.569	15/16	.060	.114	15	2,100
CLM-100-TVR	M16	.625	.765	.905	1.125	1-1/2	3/8	1-3/4	2.104	.32	.706	1-1/8	.078	.120	36	4,000
CLM-160-TVR	M24	1.000	1.159	1.318	1.875	2-1/4	3/4	2-1/2	3.350	1.00	1.119	1-3/4	.094	.138	175	12,000

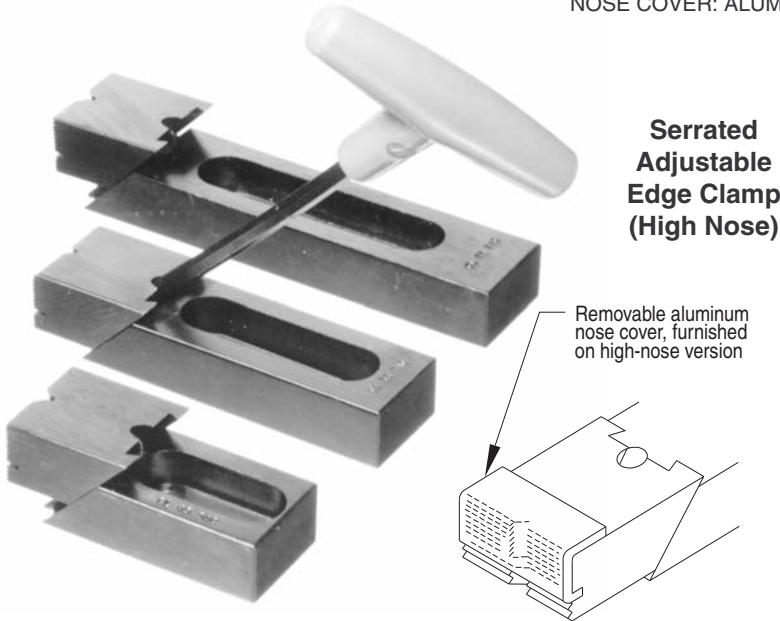
\*Recommended torque and clamping force are at 1/3 of yield strength, leaving 2/3 of holding capacity to resist external cutting forces, etc.



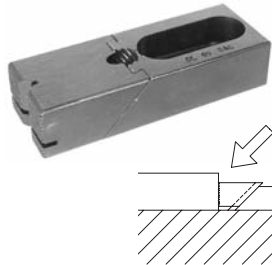
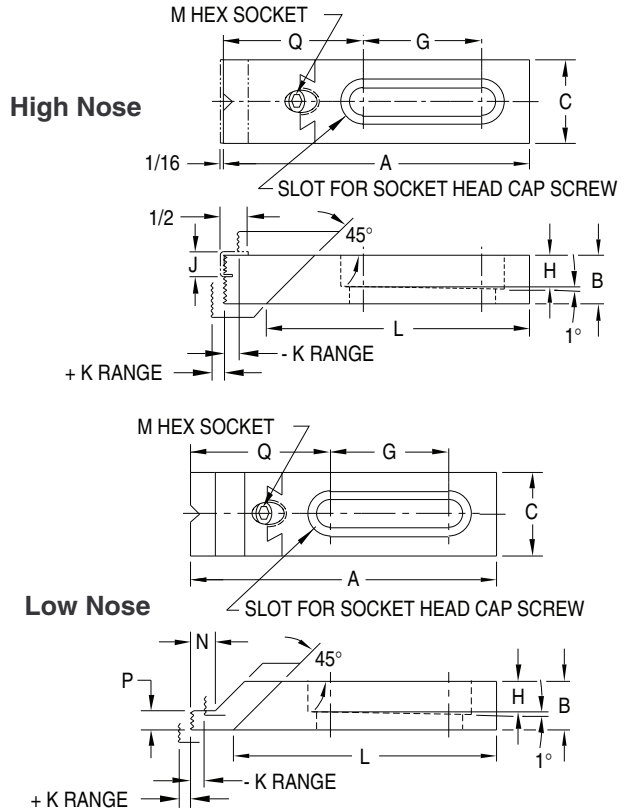
**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# SERRATED EDGE CLAMPS

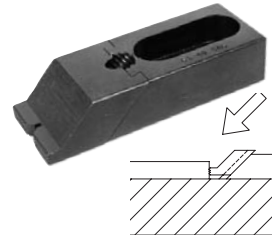
BODY AND NOSE: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 CLAMPING SCREW: 4140 STEEL, HEAT TREATED RC 43-45, BLACK OXIDE FINISH  
 NOSE COVER: ALUMINUM



This low-profile clamp is ideal for gripping the side of a workpiece to keep the top clear for machining. Clamps both forward and down simultaneously, by tightening the socket-head screw in the sliding nose with a hex wrench. V-groove in nose is excellent for clamping round parts or corners. Choice of five sizes, each available in several slot lengths. Slot is tapered to prevent the clamp from backing off under heavy forces. Use two mounting screws on longer clamps.



High-nose version is best for most applications. Gripping high up on the workpiece, close to the machining plane, provides maximum clamping rigidity. A removable aluminum nose cover is furnished for clamping soft or machined parts without damage.



Low-nose version is ideal for thin parts, with its extra machining clearance.

## ADJUSTABLE — HIGH NOSE

PART NO.	MOUNTING SCREW SIZE	A	B	C	G	H	J	K	L	M	N	P	Q
CL-1-SAC		2			1/4				1-1/2				1-3/8
CL-5-SAC	5/16-18 or M8	3	5/8	1	1-1/4	9/32	7/16	1/4	2-1/2	5/32	—	—	1-3/8
CL-15-SAC		3			13/16				2-3/8				1-11/16
CL-25-SAC	3/8-16 or M10	4-1/4	5/8	1-1/4	1-7/16	3/8	7/16	1/4	3-5/8	3/16	—	—	2-1/16
CL-35-SAC		5			2-1/8				4-3/8				1-7/8
CL-45-SAC		4			1-1/4				3-3/16				2-1/4
CL-55-SAC	1/2-13 or M12	5-1/2	7/8	1-1/2	2-1/8	1/2	5/8	5/16	4-11/16	1/4	—	—	2-1/2
CL-65-SAC		7-1/8			3				6-5/16				2-9/16
CL-75-SAC		5-1/2			1-3/8				4-1/2				3-9/32
CL-95-SAC	5/8-11 or M16	8-1/4	1-1/4	1-3/4	4	5/8	3/4	5/16	7-1/4	5/16	—	—	3
CL-105-SAC		5-1/2			1-3/8				4-1/2				3-9/32
CL-125-SAC	3/4-10 or M20	8-1/4	1-1/4	1-3/4	4	3/4	3/4	5/16	7-1/4	5/16	—	—	3

## ADJUSTABLE — LOW NOSE

CL-0-SAC		2			1/4				1-1/2				1-3/8
CL-00-SAC	5/16-18 or M8	3	5/8	1	1-1/4	9/32	—	1/4	2-1/2	5/32	1/8	1/8	1-3/8
CL-10-SAC		3			13/16				2-3/8				1-11/16
CL-20-SAC	3/8-16 or M10	4-1/4	5/8	1-1/4	1-7/16	3/8	—	1/4	3-5/8	3/16	1/4	1/4	2-1/16
CL-30-SAC		5			2-1/8				4-3/8				1-7/8
CL-40-SAC		4			1-1/4				3-3/16				2-1/4
CL-50-SAC	1/2-13 or M12	5-1/2	7/8	1-1/2	2-1/8	1/2	—	5/16	4-11/16	1/4	1/4	1/4	2-1/2
CL-60-SAC		7-1/8			3				6-5/16				2-9/16
CL-70-SAC		5-1/2			1-3/8				4-1/2				3-9/32
CL-90-SAC	5/8-11 or M16	8-1/4	1-1/4	1-3/4	4	5/8	—	5/16	7-1/4	5/16	5/16	3/8	3
CL-100-SAC		5-1/2			1-3/8				4-1/2				3-9/32
CL-120-SAC	3/4-10 or M20	8-1/4	1-1/4	1-3/4	4	3/4	—	5/16	7-1/4	5/16	5/16	3/8	3



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# SERRATED EDGE CLAMPS

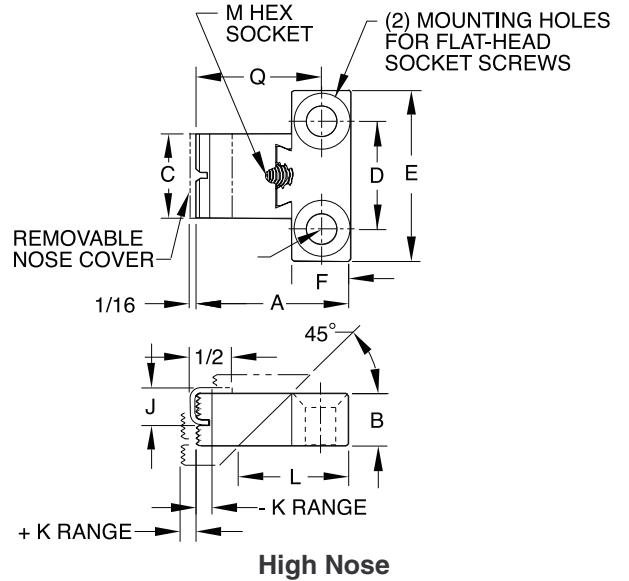
BODY AND NOSE: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 CLAMPING SCREW: 4140 STEEL, HEAT TREATED RC 43-45, BLACK OXIDE FINISH  
 NOSE COVER: ALUMINUM



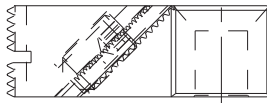
**Serrated Fixed Edge Clamp (High Nose)**



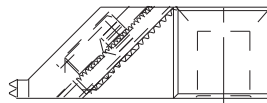
**Serrated Fixed Edge Clamp (Low Nose)**



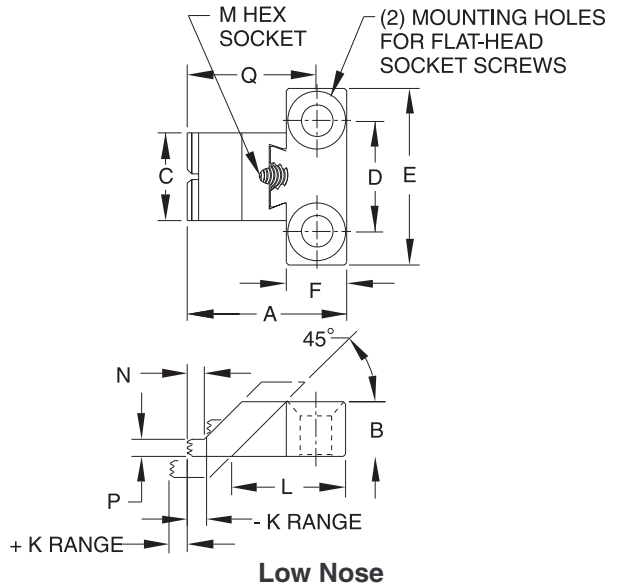
Serrated Fixed Edge Clamps mount in a fixed position, rather than having a slot for adjustment. This makes the clamps more compact and ensures that they are mounted in the correct location without requiring adjustment. The fixed version is usually better for permanent fixtures, while the adjustable version is better for machine-table mounting. The Flat-Head Socket Screws used for mounting absolutely hold proper location (order separately). Choice of three clamp sizes, with either a high nose or low nose.



**High Nose**



**Low Nose**



**Low Nose**

### FIXED POSITION — HIGH NOSE

PART NO.	MOUNTING SCREW SIZE	A	B	C	D	E	F	J	K	L	M	N	P	Q	FLAT-HEAD SOCKET SCREWS (2 REQ'D) ORDER SEPARATELY
CL-5-SFC	5/16-18	1-13/16	5/8	1	1	1-3/4	11/16	7/16	1/4	1-5/16	5/32	—	—	1-15/32	CL-5/16-18x1.00-FHSS
CL-45-SFC	1/2-13	2-11/16	7/8	1-1/2	2	3	1	5/8	5/16	1-7/8	1/4	—	—	2-3/16	CL-1/2-13x1.38-FHSS
CL-75-SFC	5/8-11	3-1/2	1-1/4	1-3/4	2	3-1/4	1-1/4	3/4	5/16	2-1/2	5/16	—	—	2-7/8	CL-5/8-11x2.00-FHSS

### FIXED POSITION — LOW NOSE

CL-0-SFC	5/16-18	1-13/16	5/8	1	1	1-3/4	11/16	7/16	1/4	1-5/16	5/32	1/8	1/8	1-15/32	CL-5/16-18x1.00-FHSS
CL-40-SFC	1/2-13	2-11/16	7/8	1-1/2	2	3	1	5/8	5/16	1-7/8	1/4	1/4	1/4	2-3/16	CL-1/2-13x1.38-FHSS
CL-70-SFC	5/8-11	3-1/2	1-1/4	1-3/4	2	3-1/4	1-1/4	3/4	5/16	2-1/2	5/16	3/8	2-7/8	CL-5/8-11x2.00-FHSS	

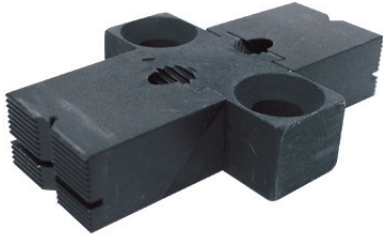


## MANUFACTURING CO.

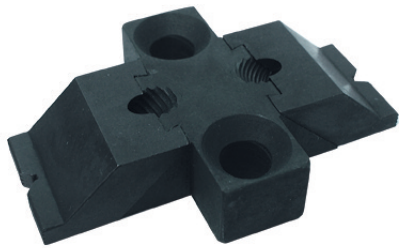
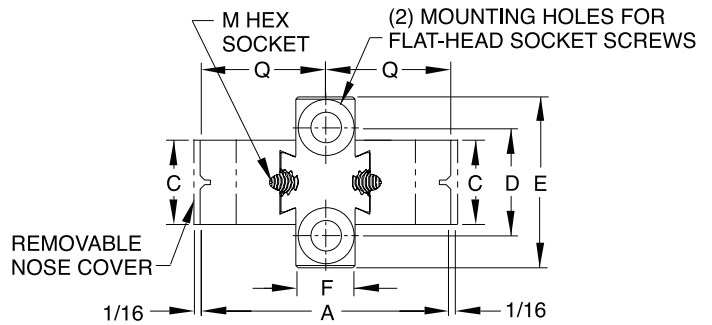
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: [www.carrlane.com](http://www.carrlane.com)

# SERRATED EDGE CLAMPS

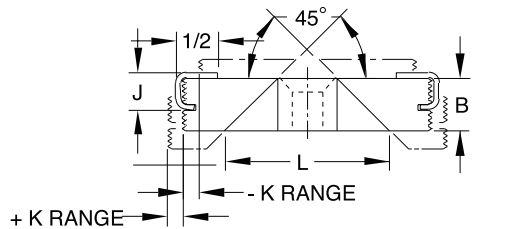
BODY AND NOSE: 1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 CLAMPING SCREW: 4140 STEEL, HEAT TREATED RC 43-45, BLACK OXIDE FINISH  
 NOSE COVER: ALUMINUM



**Serrated Double Edge Clamp (High Nose)**

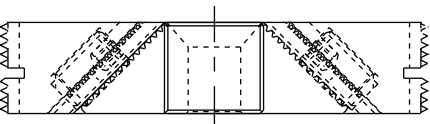


**Serrated Double Edge Clamp (Low Nose)**

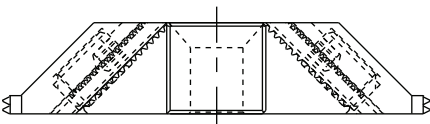


**High Nose**

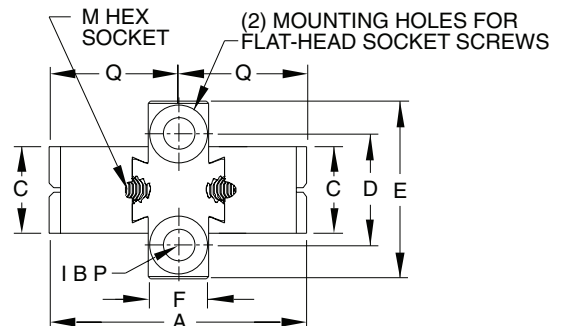
Serrated Double Edge Clamps allow holding two workpieces with a single clamp. Double Edge Clamps mount in a fixed position between the two workpieces, then clamp outward with each nose operating independently. The Flat-Head Socket Screws used for mounting absolutely hold proper location (order separately). Choice of three clamp sizes, with either a high nose or low nose.



**High Nose**



**Low Nose**



**Low Nose**

### DOUBLE — HIGH NOSE

PART NO.	MOUNTING SCREW SIZE	A	B	C	D	E	F	J	K	L	M	N	P	Q	FLAT-HEAD SOCKET SCREWS (2 REQ'D) ORDER SEPARATELY
CL-5-SDC	5/16-18	2-15/16	5/8	1	1	1-3/4	11/16	7/16	1/4	2	5/32	—	—	1-15/32	CL-5/16-18x1.00-FHSS
CL-45-SDC	1/2-13	4-3/8	7/8	1-1/2	2	3	1	5/8	5/16	2-3/4	1/4	—	—	2-3/16	CL-1/2-13x1.38-FHSS
CL-75-SDC	5/8-11	5-3/4	1-1/4	1-3/4	2	3-1/4	1-1/4	3/4	5/16	3-3/4	5/16	—	—	2-7/8	CL-5/8-11x2.00-FHSS

### DOUBLE — LOW NOSE

CL-0-SDC	5/16-18	2-15/16	5/8	1	1	1-3/4	11/16	7/16	1/4	2	5/32	1/8	1/8	1-15/32	CL-5/16-18x1.00-FHSS
CL-40-SDC	1/2-13	4-3/8	7/8	1-1/2	2	3	1	5/8	5/16	2-3/4	1/4	1/4	1/4	2-3/16	CL-1/2-13x1.38-FHSS
CL-70-SDC	5/8-11	5-3/4	1-1/4	1-3/4	2	3-1/4	1-1/4	3/4	5/16	3-3/4	5/16	5/16	3/8	2-7/8	CL-5/8-11x2.00-FHSS



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: [www.carrlane.com](http://www.carrlane.com)

# CAM EDGE CLAMPS

BODY: STEEL, WEAR SURFACES HARDENED, BLACK OXIDE FINISH  
BALL HANDLE: BLACK PHENOLIC PLASTIC

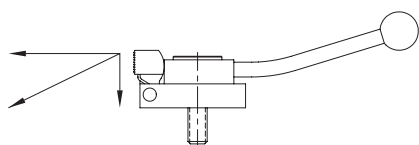


**Fixed Base**

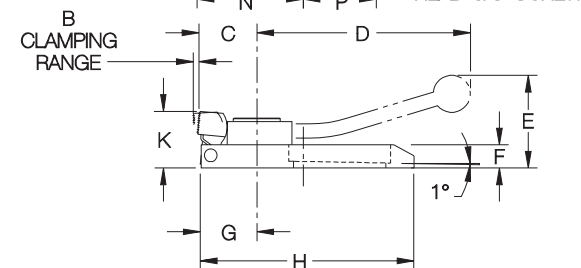
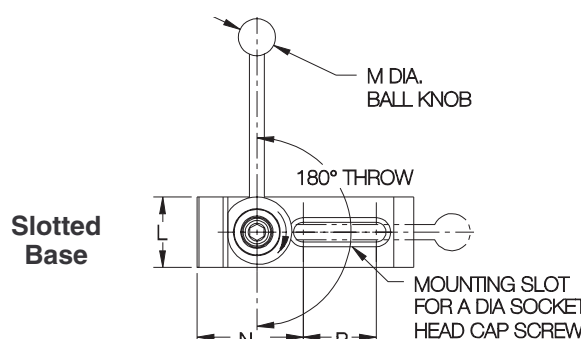
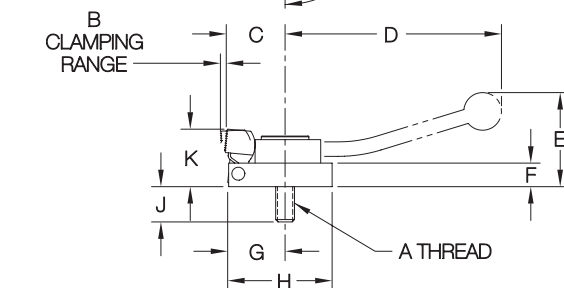
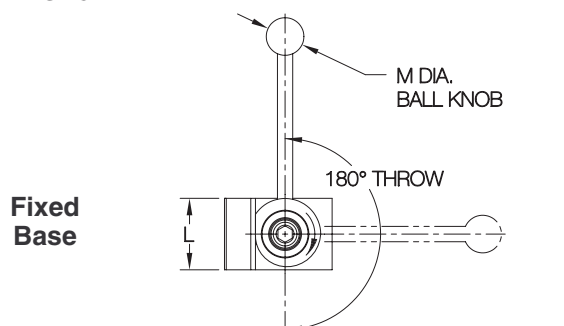


**Slotted Base**

Pivoting-nose edge clamp operated by a cam handle for fast action. Smooth spiral cam locks positively anywhere within its 180° throw. Choice of two sizes. Available with either a standard base for fixed-position mounting, or a slotted base for adjustable mounting. Choice of clockwise or counter-clockwise handle rotation to clamp.



Nose pivots to exert clamping force forward and downward at the same time.



## FIXED BASE (USA)

PART NO.		A	B	C	D	E	F	G	H	J	K		L	M	N	P	MAX CLAMPING FORCE (LBS)	
CLOCKWISE CLAMPING	CCW CLAMPING										MIN	MAX					HORIZONTAL	VERTICAL
CL-MF25-5601	CL-MF25-5602	5/16-18	5/32	1-1/8	3-15/16	1-5/8	7/16	15/16	1-3/4	11/16	7/8	1	1-1/4	3/4	—	—	750	50
CL-MF40-5601	CL-MF40-5602	1/2-13	7/32	1-9/16	5-3/4	2-1/2	5/8	1-1/2	2-3/4	15/16	1-5/16	1-1/2	1-7/8	1	—	—	1500	100

## FIXED BASE (METRIC)

CL-MF08-5601	CL-MF08-5602	M8	5/32	1-1/8	3-15/16	1-5/8	7/16	15/16	1-3/4	.31	7/8	1	1-1/4	3/4	—	—	750	50
CL-MF12-5601	CL-MF12-5602	M12	7/32	1-9/16	5-3/4	2-1/2	5/8	1-1/2	2-3/4	.47	1-5/16	1-1/2	1-7/8	1	—	—	1500	100

## SLOTTED BASE

CL-MF25-5611	CL-MF25-5612	5/16-18 or M8	5/32	1-1/8	3-15/16	1-5/8	7/16	15/16	3-1/2	—	7/8	1	1-1/4	3/4	2	1	750	50
CL-MF40-5611	CL-MF40-5612	1/2-13 or M12	7/32	1-9/16	5-3/4	2-1/2	5/8	1-1/2	6	—	1-5/16	1-1/2	1-7/8	1	2-15/16	2	1500	100

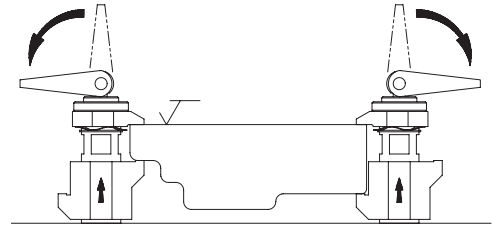


## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

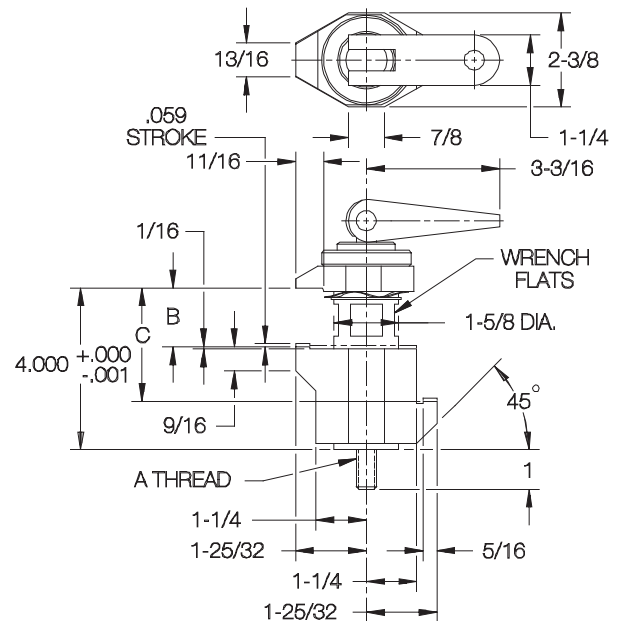
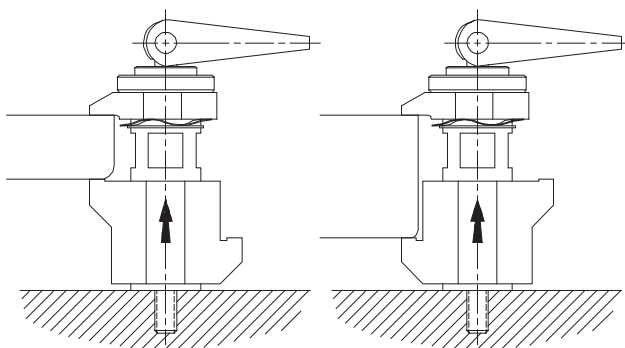
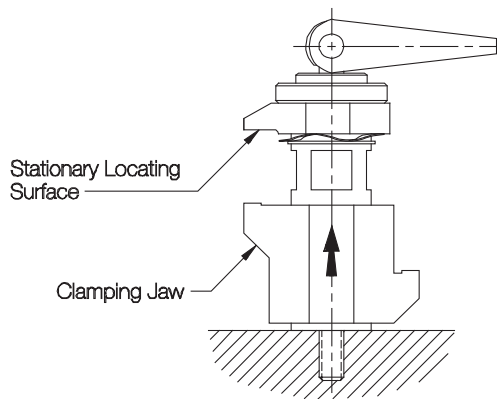
# UP-THRUST CLAMPS

STEEL, WEAR SURFACES HARDENED, BLACK OXIDE FINISH



Up-Thrust Clamps locate off of the part's top surface and clamp up from below.

Combination clamp and locator with a unique upward clamping action. Pushing down the cam handle pulls the lower jaw upward. This clamps the workpiece against the stationary upper jaw, whose bottom surface is a precision-ground locator.



The lower jaw has two clamping surfaces 180° apart, one for thinner parts, the other for thicker parts. The cam handle rotates to screw the lower jaw up or down for fine adjustment.

PART NO.	A	B RANGE		C RANGE		MAX CLAMPING FORCE (LBS)
		MIN	MAX	MIN	MAX	
CL-MF40-5301	1/2-13	0	1-3/8	1-3/8	2-3/4	2200



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

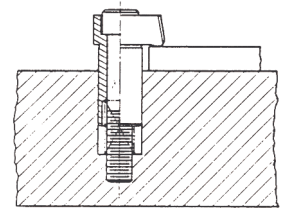
# HOOK CLAMPS

CLAMP BODY: 12L14 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



**Standard Arm  
Socket Head**

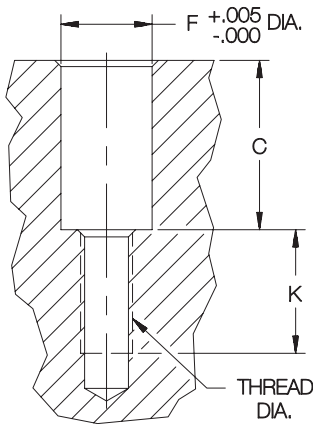
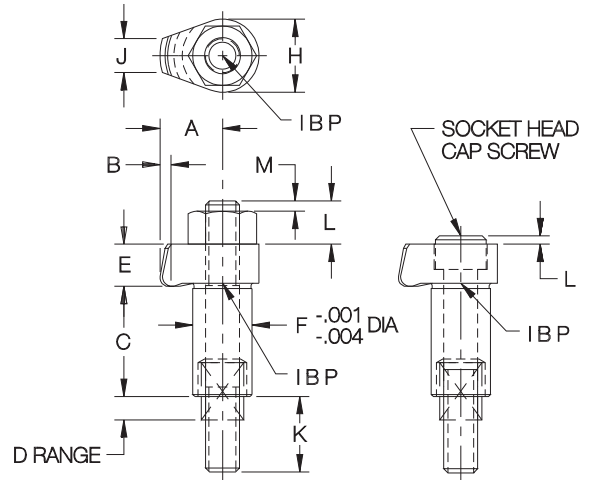
Extremely compact swing clamp that mounts in a reamed hole. Ideal in tight spaces and where high clamping forces are required. Choice of socket head (counterbored) or hex-nut type.



Compact assembly is easy to install in tight spaces. Socket-head type shown above offers a very low profile.



**Standard Arm  
Hex Nut**



**Installation  
Hole**

### STANDARD ARM, SOCKET HEAD (USA)

PART NO.	THREAD DIA	A	B	C	D CLAMPING RANGE	E	F DIA	H DIA	J	K	L	M
CL-1-CAC	5/16-18	.67	.08	.93	.25	.55	.625	.80	.40	.69		
CL-2-CAC	1/2-13	.92	.12	1.63	.50	.63	.875	1.08	.50	1.13	.12	—
CL-3-CAC	5/8-11	1.30	.18	1.83	.70	.90	1.125	1.38	.75	1.25		

### STANDARD ARM, SOCKET HEAD (METRIC)

PART NO.	THREAD DIA	A	B	C	D CLAMPING RANGE	E	F DIA	H DIA	J	K	L	M
CLM-1-CAC	M8	.67	.08	.93	.25	.55	.625	.80	.40	.66		
CLM-2-CAC	M12	.92	.12	1.63	.50	.63	.875	1.08	.50	1.28	.12	—
CLM-3-CAC	M16	1.30	.18	1.83	.70	.90	1.125	1.38	.75	1.31		

### STANDARD ARM, HEX NUT (USA)

PART NO.	THREAD DIA	A	B	C	D CLAMPING RANGE	E	F DIA	H DIA	J	K	L	M
CL-1-CA	5/16-18	.67	.08	.93	.25	.55	.625	.80	.40	1.14	.30	.06
CL-2-CA	1/2-13	.92	.12	1.63	.50	.63	.875	1.08	.50	1.19	.48	.08
CL-3-CA	5/8-11	1.30	.18	1.83	.70	.90	1.125	1.38	.75	1.57	.61	.09

### STANDARD ARM, HEX NUT (METRIC)

PART NO.	THREAD DIA	A	B	C	D CLAMPING RANGE	E	F DIA	H DIA	J	K	L	M
CLM-1-CA	M8	.67	.08	.93	.25	.55	.625	.80	.40	.69	.32	.05
CLM-2-CA	M12	.92	.12	1.63	.50	.63	.875	1.08	.50	1.02	.47	.07
CLM-3-CA	M16	1.30	.18	1.83	.70	.90	1.125	1.38	.75	1.48	.63	.08



### MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# HOOK CLAMPS

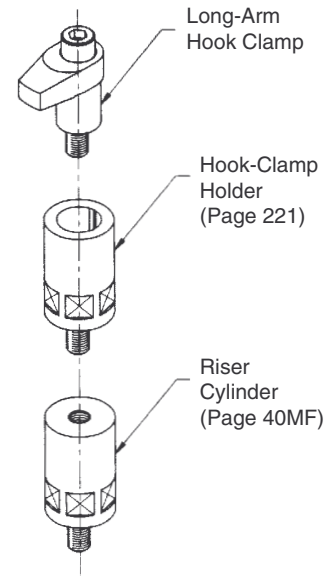
CLAMP BODY: 4135 STEEL, HEAT TREATED, BLACK OXIDE FINISH  
 SOCKET-HEAD CAP SCREW, BLACK OXIDE FINISH  
 SPRING: SPRING STEEL, BLACK OXIDE FINISH



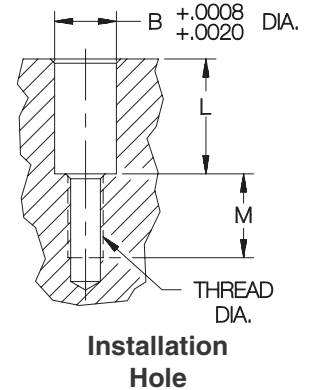
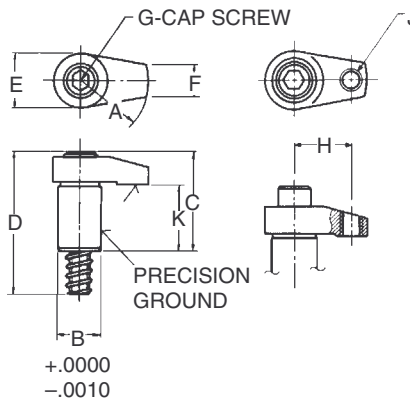
**Long Arm  
Socket Head**



**Tapped Long Arm  
Socket Head**



Long-arm Hook Clamps available with either a plain or tapped arm. The tapped-arm version accepts a wide variety of contact bolts or spindles to increase clamping-height range (the tapped arm is also slightly longer). Mounts in a reamed hole or in a Hook-Clamp Mounting Block or Holder (order separately). Ideal in tight spaces where high clamping force is required. Available in three sizes.



## LONG ARM, SOCKET HEAD (USA)

PART NO.	THREAD DIA	A	B	C	D	E	F	G	H	J	K	L	M	MAXIMUM ALLOWABLE TORQUE (FT-LBS)	MAXIMUM CLAMPING FORCE (LBS)
CL-MF25-5002	5/16-18	1	.7500	1-7/16	2-5/16	7/8	3/8	5/16-18x2.00	—	—	29/32	15/16	15/16	22	2200
CL-MF40-5002	1/2-13	2	1.0000	2-1/2	3-1/2	1-1/4	11/16	1/2-13x3.00	—	—	1-17/32	1-9/16	1	34	2700
CL-MF50-5002	5/8-11	2	1.2500	2-7/8	3-7/8	1-7/16	7/8	5/8-11x3.25	—	—	1-17/32	1-9/16	1	59	3700

## TAPPED LONG ARM, SOCKET HEAD (USA)

CL-MF25-5013	5/16-18	1-3/16	.7500	1-7/16	2-5/16	7/8	3/8	5/16-18x2.00	15/16	5/16-18	29/32	15/16	15/16	22	2200
CL-MF40-5013	1/2-13	2-3/8	1.0000	2-1/2	3-1/2	1-1/4	11/16	1/2-13x3.00	1-13/16	1/2-13	1-17/32	1-9/16	1	34	2700
CL-MF50-5014	5/8-11	2-3/8	1.2500	2-7/8	3-7/8	1-7/16	7/8	5/8-11x3.25	1-13/16	5/8-11	1-17/32	1-9/16	1	59	3700

## LONG ARM, SOCKET HEAD (METRIC)

CL-MF08-5002	M8	1	.7087(18mm)	1.46	2.28	.87	.39	M8x50mm	—	—	.91	.98	.84	22	2200
CL-MF12-5002	M12	2	.9843(25mm)	2.68	3.62	1.25	.69	M12x80mm	—	—	1.54	1.57	.96	34	2700
CL-MF16-5002	M16	2	1.2598(32mm)	2.95	3.98	1.44	.87	M16x85mm	—	—	1.54	1.57	.96	59	3700

## TAPPED LONG ARM, SOCKET HEAD (METRIC)

CL-MF08-5013	M8	1.19	.7087(18mm)	1.46	2.28	.87	.39	M8x50mm	.94	M8	.98	.79	.84	22	2200
CL-MF12-5013	M12	2.38	.9843(25mm)	2.68	3.62	1.25	.69	M12x80mm	1.81	M12	1.54	1.57	.96	34	2700
CL-MF16-5013	M16	2.38	1.2598(32mm)	2.95	3.98	1.44	.87	M16x85mm	1.81	M12	1.54	1.57	.96	59	3700



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# HOOK CLAMPS

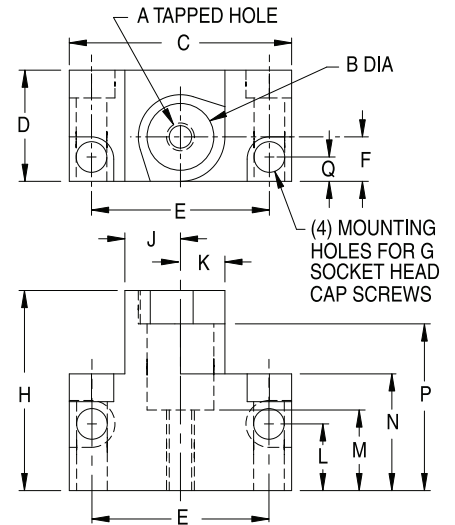
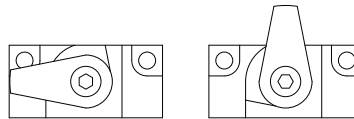
MOUNTING BLOCKS AND HOLDERS: 1045 STEEL, BLACK OXIDE FINISH

**NEW!**



**Hook-Clamp Mounting Block**  
(order Hook-Clamp separately)

These mounting blocks for long-arm Hook Clamps have built-in 90° stops that provide consistent arm positioning in both clamped and unclamped position. Two sets of mounting holes allow either base mounting or side mounting. Precision bored hole for smooth swing action. Available for all three sizes of long-arm Hook Clamps.



## HOOK-CLAMP MOUNTING BLOCKS (USA)

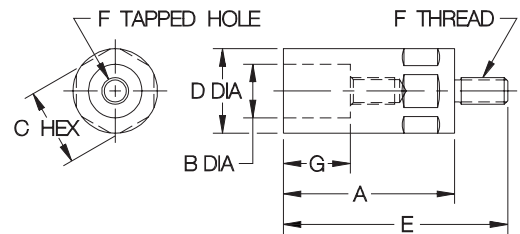
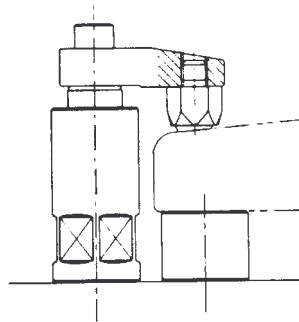
PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
CL-MF25-5800	5/16-18	.7500	2-1/2	1-1/4	2	1/2	5/16-18 OR M8	2-1/4	5/8	1/2	3/4	29/32	1-5/16	1-7/8	1/4
CL-MF40-5800	1/2-13	1.0000	2-3/4	2	2	1	1/2-13 OR M12	3-1/2	1	3/4	1	1-5/32	1-7/8	2-3/4	3/8
CL-MF50-5800	5/8-11	1.0000	5	2	4	1	5/8-11 OR M16	4	1	1	1-1/4	1-5/32	2-1/4	2-3/4	1/2

## HOOK-CLAMP MOUNTING BLOCKS (METRIC)

CL-MF08-5800	M8	.7087 (18mm)	1.97	1.00	1.50	.47	M6 or 1/4-20	2.28	.55	.55	.71	.91	.98	1.87	.25
CL-MF12-5800	M12	.9843 (25mm)	2.95	1.50	2.17	.65	M10 or 3/8-16	3.50	.79	.79	.94	1.16	1.38	2.64	.35
CL-MF16-5800	M16	1.2598 (32mm)	3.46	1.75	2.56	.77	M12 or 1/2-13	4.13	.94	.94	1.26	1.16	1.77	3.43	.39



**Hook-Clamp Holder**



## HOOK-CLAMP HOLDERS (USA)

PART NO.	F THREAD DIA	A	B DIA	C	D DIA	E	G
CL-MF25-5101	5/16-18	2-1/4	.7500	7/8	1	3	15/16
CL-MF40-5101	1/2-13	3-1/8	1.0000	1-7/16	1-9/16	4-3/8	1-9/16
CL-MF40-5102		4				5-1/4	
CL-MF50-5101	5/8-11	3-1/8	1.2500	1-3/4	2	4-3/8	1-9/16
CL-MF50-5102		4				5-1/4	

## HOOK-CLAMP HOLDERS (METRIC)

CL-MF08-5101	M8	2.17	.7087 (18mm)	.87 (22mm)	.94	2.91	.98
CL-MF12-5101	M12	3.15	.9843 (25mm)	1.42 (36mm)	1.57	4.33	1.57
CL-MF16-5101	M16	3.15	1.2598 (32mm)	1.81 (46mm)	1.97	4.33	1.57

Compact mounting adapter for long-arm Hook Clamps. Precision bored hole for smooth swing action.



**MANUFACTURING CO.**

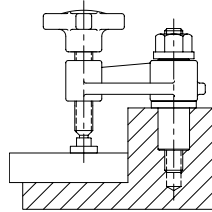
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# SWING CLAMP ASSEMBLIES

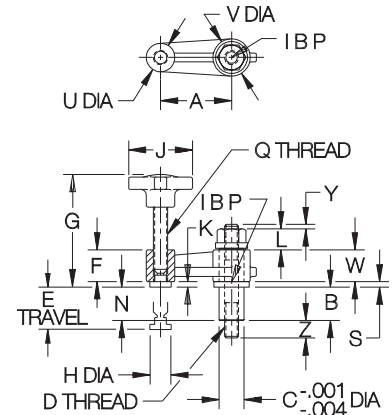
ARM: NODULAR IRON PER ASTM A536 GRADE 65-45-12, ZINC PLATED CLEAR CHROMATE  
 SEE PAGES 60, 108, AND 221 FOR OTHER MATERIAL SPECIFICATIONS  
 ALL OTHER PARTS: MILD STEEL, BLACK OXIDE FINISH



**Knob Handle  
Post Mounted**



Long-reach swing clamp that can be hand tightened for medium clamping force. The post-mounted version is ideal for tight spaces, with a long mounting post for increased strength. Swing arm can be turned over for more clearance underneath. Install in a reamed hole. To order with a Delrin® foot instead of steel, add "N" to the part number. Example: CL-1-SWA-1N.



## KNOB HANDLE, POST MOUNTED (USA)

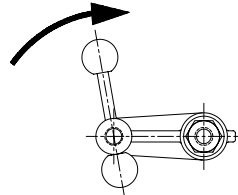
PART NO.	D THREAD SIZE	A	B	C DIA		E	F	G	H DIA	J	K	L	N	Q	S	U DIA	V DIA	W	Y	Z
				NOMINAL	ACTUAL															
CL-1-SWA-1	5/16-18	1-1/2	.80	9/16	.563	.69	3/4	2.45	1/2	1-3/4	5/32	3/8	.68	5/16-18	.16	11/16	15/16	3/4	.11	.80
CL-4-SWA-1	1/2-13	2	1.18	7/8	.875	1.50	1-1/8	3.88	3/4	2-1/8	3/16	11/16	.99	1/2-13	.19	1	1-5/16	1-1/8	.15	.67
CL-5-SWA-1		2-1/2																		
CL-2-SWA-1	5/8-11	3	1.55	1-1/8	1.125	1.59	1-5/16	4.56	15/16	2-3/4	7/32	13/16	1.33	5/8-11	.22	1-5/16	1-3/4	1-1/2	.18	.74
CL-3-SWA-1		4																		

## KNOB HANDLE, POST MOUNTED (METRIC)

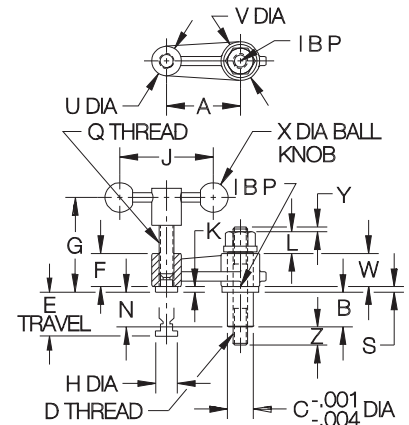
CLM-1-SWA-1	M8	1-1/2	.80	14mm	.551	.69	3/4	2.45	1/2	1-3/4	5/32	.39	.68	5/16-18	.16	11/16	15/16	3/4	.10	.95
CLM-4-SWA-1	M12	2	1.18	22mm	.866	1.50	1-1/8	3.88	3/4	2-1/8	3/16	.67	.99	1/2-13	.19	1	1-5/16	1-1/8	.14	1.01
CLM-5-SWA-1		2-1/2																		
CLM-2-SWA-1	M16	3	1.55	28mm	1.102	1.59	1-5/16	4.56	15/16	2-3/4	7/32	.83	1.33	5/8-11	.22	1-5/16	1-3/4	1-1/2	.16	.66
CLM-3-SWA-1		4																		



**Ball Handle  
Post Mounted**



Same as above, except with a sliding ball handle for increased leverage.



## BALL HANDLE, POST MOUNTED (USA)

PART NO.	D THREAD SIZE	A	B	C DIA		E	F	G	H DIA	J	K	L	N	Q	S	U DIA	V DIA	W	X	Y	Z
				NOMINAL	ACTUAL																
CL-1-SWA-2	5/16-18	1-1/2	.80	9/16	.563	.88	3/4	2.39	1/2	2-1/4	5/32	3/8	.68	5/16-18	.16	11/16	15/16	3/4	3/4	.11	.80
CL-4-SWA-2	1/2-13	2	1.18	7/8	.875	.96	1-1/8	3.53	3/4	2-5/8	3/16	11/16	.99	1/2-13	.19	1	1-5/16	1-1/8	1	.15	.67
CL-5-SWA-2		2-1/2																			
CL-2-SWA-2	5/8-11	3	1.55	1-1/8	1.125	1.65	1-1/2	4.50	15/16	3	7/32	13/16	1.33	5/8-11	.22	1-5/16	1-3/4	1-1/2	1-3/8	.18	.74
CL-3-SWA-2		4																			

## BALL HANDLE, POST MOUNTED (METRIC)

CLM-1-SWA-2	M8	1-1/2	.80	14mm	.551	.88	3/4	2.39	1/2	2-1/4	5/32	.39	.68	5/16-18	.16	11/16	15/16	3/4	3/4	.10	.95
CLM-4-SWA-2	M12	2	1.18	22mm	.866	.96	1-1/8	3.53	3/4	2-5/8	3/16	.67	.99	1/2-13	.19	1	1-5/16	1-1/8	1	.14	1.01
CLM-5-SWA-2		2-1/2																			
CLM-2-SWA-2	M16	3	1.55	28mm	1.102	1.65	1-1/2	4.50	15/16	3	7/32	.83	1.33	5/8-11	.22	1-5/16	1-3/4	1-1/2	1-3/8	.16	.66
CLM-3-SWA-2		4																			

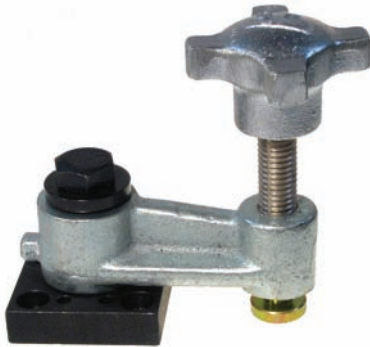


**MANUFACTURING CO.**

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

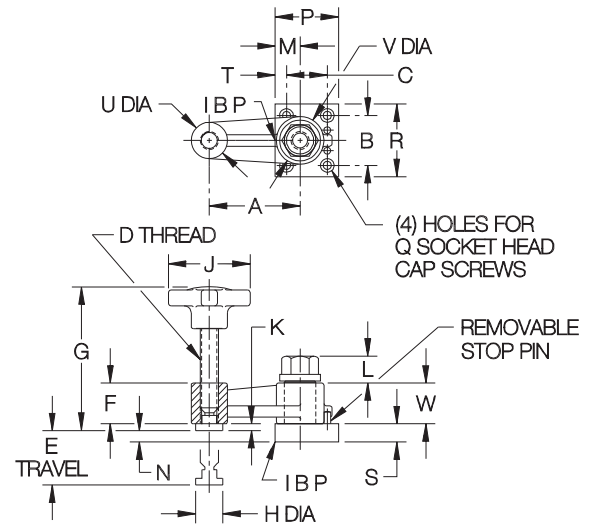
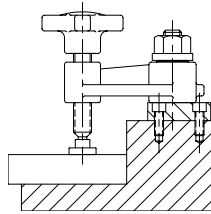
# SWING CLAMP ASSEMBLIES

ARM: NODULAR IRON PER ASTM A536 GRADE 60-40-18, ZINC PLATED CLEAR CHROMATE  
 SEE PAGES 60, 108, AND 221 FOR OTHER MATERIAL SPECIFICATIONS  
 ALL OTHER PARTS: MILD STEEL, BLACK OXIDE FINISH



**Knob Handle  
Flange Mounted**

Long-reach swing clamp that can be hand tightened for medium clamping force. The flange-mounted version is ideal for mounting on flat surfaces. The stop pin furnished can be installed on either side for clockwise or counterclockwise rotation. Swing arm can be turned over for more clearance underneath. To order with a Delrin® foot instead of steel, add "N" to the part number. Example: CL-1-SWA-3N.



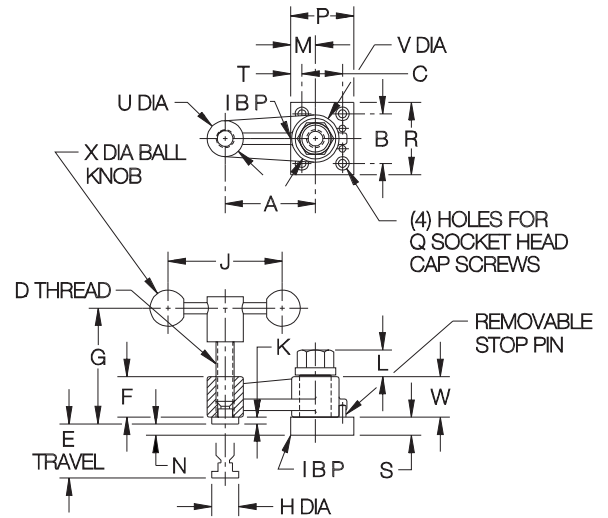
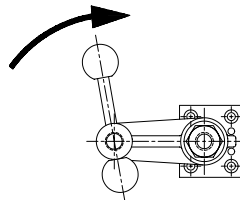
## KNOB HANDLE, FLANGE MOUNTED

PART NO.	D THREAD SIZE	A	B	C	E	F	G	H DIA	J	K	L	M	N	P	Q	R	S	T	U	V	W
CL-1-SWA-3	5/16-18	1-1/2	1	3/4	.69	3/4	2.45	1/2	1-3/4	5/32	.33	1/2	.25	1-1/4	#10 or M5	1-1/2	3/8	1/4	11/16	15/16	3/4
CL-4-SWA-3	1/2-13	2	1-3/8	1-1/8	1.50	1-1/8	3.88	3/4	2-1/8	3/16	.44	11/16	.31	1-3/4	1/4 or M6	2	1/2	5/16	1	1-5/16	1-1/8
CL-5-SWA-3		2-1/2																			
CL-2-SWA-3	5/8-11	3	1-1/2	1-1/4	1.59	1-5/16	4.56	15/16	2-3/4	7/32	.58	1	.53	2-1/4	3/8 or M10	2-1/4	3/4	3/8	1-5/16	1-3/4	1-1/2
CL-3-SWA-3		4																			



**Ball Handle  
Flange Mounted**

Same as above, except with a sliding ball handle for increased leverage.



## BALL HANDLE, FLANGE MOUNTED

PART NO.	D THREAD SIZE	A	B	C	E	F	G	H DIA	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
CL-1-SWA-4	5/16-18	1-1/2	1	3/4	.88	3/4	2.39	1/2	2-1/4	5/32	.33	1/2	.25	1-1/4	#10 or M5	1-1/2	3/8	1/4	11/16	15/16	3/4	3/4
CL-4-SWA-4	1/2-13	2	1-3/8	1-1/8	.96	1-1/8	3.53	3/4	2-5/8	3/16	.44	11/16	.31	1-3/4	1/4 or M6	2	1/2	5/16	1	1-5/16	1-1/8	1
CL-5-SWA-4		2-1/2																				
CL-2-SWA-4	5/8-11	3	1-1/2	1-1/4	1.65	1-5/16	4.50	15/16	3	7/32	.58	1	.53	2-1/4	3/8 or M10	2-1/4	3/4	3/8	1-5/16	1-3/4	1-1/2	1-3/8
CL-3-SWA-4		4																				



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# ACORN NUTS

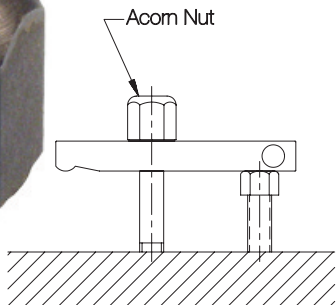
12L14 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH

## USA

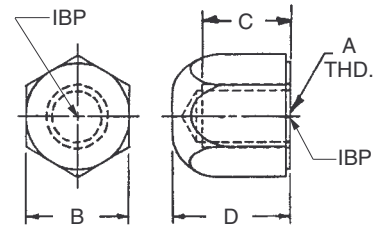
PART NO.	A	B	C	D
CL-0-AN	1/4-20	1/2	3/8	1/2
CL-1-AN	5/16-18	5/8	13/32	5/8
CL-5-AN	3/8-16	3/4	7/16	3/4
CL-2-AN	1/2-13	7/8	9/16	15/16
CL-3-AN	5/8-11	1-1/16	13/16	1-3/16
CL-4-AN	3/4-10	1-1/4	1	1-3/8

## METRIC

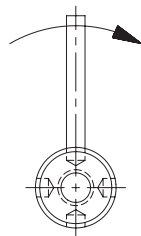
CLM-6-AN	M6	10mm	.39	.59
CLM-8-AN	M8	13mm		
CLM-10-AN	M10	17mm		.79
CLM-12-AN	M12	19mm	.59	.98
CLM-16-AN	M16	24mm	.79	1.18
CLM-20-AN	M20	30mm	.98	1.38



Closed end covers the end of a stud to prevent snags or thread damage.



**ADDITIONAL  
SIZES NOW  
AVAILABLE!**



Heavy lock nut that can be tightened by hand or with an extension rod (1/4" or 6mm diameter). Large contact surface.

# KNURLED NUTS

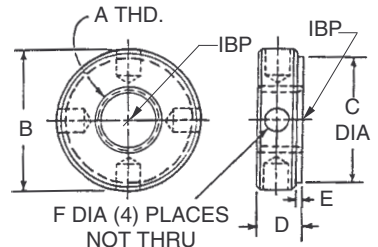
12L14 STEEL, BLACK OXIDE FINISH

## USA

PART NO.	A	B DIA	C DIA	D	E	F DIA
CL-0-KN	1/4-20	1-1/8	1	7/16	1/16	.257
CL-00-KN	5/16-18					
CL-1-KN	3/8-16					
CL-2-KN	1/2-13					
CL-3-KN	5/8-11	1-3/8				

## METRIC

CLM-6-KN	M6	1.12	.98	.43	.80	.256
CLM-8-KN	M8					
CLM-10-KN	M10					
CLM-12-KN	M12					
CLM-16-KN	M16	1.38				



# KNURLED CHECK NUTS

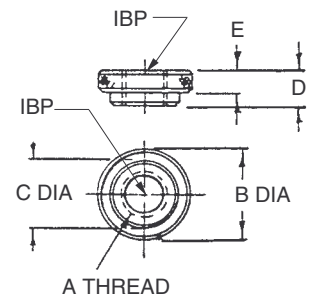
12L14 STEEL, BLACK OXIDE FINISH

## USA

PART NO.	A	B DIA	C DIA	D	E
CL-1024-TSJN	#10-24	3/4	1/2	1/4	3/16
CL-1032-TSJN	#10-32				
CL-1420-TSJN	1/4-20			5/16	1/4
CL-51618-TSJN	5/16-18	1	3/4	3/8	1/4
CL-3816-TSJN	3/8-16				
CL-1213-TSJN	1/2-13				
CL-5811-TSJN	5/8-11				

## METRIC

CLM-5-TSJN	M5	.75	.51	.24	.20
CLM-6-TSJN	M6				
CLM-8-TSJN	M8			.31	.28
CLM-10-TSJN	M10				
CLM-12-TSJN	M12	.98	.75	.39	.31
CLM-16-TSJN	M16				



Multipurpose lock nut for finger tightening.



**MANUFACTURING CO.**

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# HEX NUTS

STEEL: MILD STEEL, BLACK OXIDE FINISH  
STAINLESS STEEL: 300-SERIES, PASSIVATE FINISH



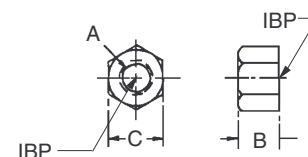
High-quality heavy hex nut, available in steel or stainless steel.

## USA

STEEL PART NO.	STAINLESS STEEL PART NO.	A THREAD	B	C
CL-4-HN	CL-4-HN-S	1/4-20	15/64	1/2
CL-5-HN	CL-5-HN-S	5/16-18	19/64	9/16
CL-6-HN	CL-6-HN-S	3/8-16	23/64	11/16
CL-8-HN	CL-8-HN-S	1/2-13	31/64	7/8
CL-10-HN	CL-10-HN-S	5/8-11	39/64	1-1/16
CL-12-HN	CL-12-HN-S	3/4-10	47/64	1-1/4
CL-14-HN	—	7/8-9	55/64	1-7/16
CL-16-HN	—	1"-8	63/64	1-5/8
CL-20-HN	—	1-1/4"-7	1-7/32	2

## USA FINE

CL-4-FHN	CL-4-FHN-S	1/4-28	7/32	7/16
CL-5-FHN	CL-5-FHN-S	5/16-24	17/64	1/2
CL-6-FHN	CL-6-FHN-S	3/8-24	21/64	9/16
CL-8-FHN	CL-8-FHN-S	1/2-20	7/16	3/4
CL-10-FHN	—	5/8-18	35/64	15/16
CL-12-FHN	—	3/4-16	41/64	1-1/8

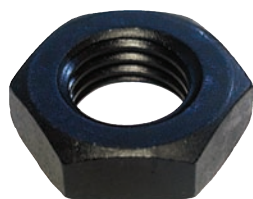


## METRIC

STEEL PART NO.	STAINLESS STEEL PART NO.	A THREAD	B	C
CLM-6-HN	—	M6	.20	10mm
CLM-8-HN	—	M8	.26	13mm
CLM-10-HN	—	M10	.31	17mm
CLM-12-HN	—	M12	.39	19mm
CLM-16-HN	—	M16	.51	24mm
CLM-20-HN	—	M20	.63	30mm
CLM-24-HN	—	M24	.75	36mm
CLM-30-HN	—	M30	.94	46mm

# JAM NUTS

STEEL: MILD STEEL, BLACK OXIDE FINISH  
STAINLESS STEEL: 300-SERIES, PASSIVATE FINISH



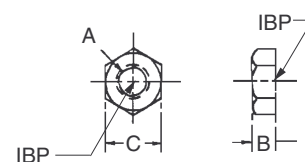
High-quality heavy jam nut, available in steel or stainless steel.

## USA

STEEL PART NO.	STAINLESS STEEL PART NO.	A THREAD	B	C
—	CL-2-JN-S	#8-32	1/8	11/32
—	CL-3-JN-S	#10-24	1/8	3/8
CL-4-JN	CL-4-JN-S	1/4-20	11/64	1/2
CL-5-JN	CL-5-JN-S	5/16-18	13/64	9/16
CL-6-JN	CL-6-JN-S	3/8-16	15/64	11/16
CL-8-JN	—	1/2-13	19/64	7/8
CL-10-JN	—	5/8-11	23/64	1-1/16
CL-12-JN	—	3/4-10	27/64	1-1/4
CL-14-JN	—	7/8-9	31/64	1-7/16
CL-16-JN	—	1"-8	35/64	1-5/8

## USA FINE

CL-3-FJN	CL-3-FJN-S	#10-32	1/8	3/8
CL-4-FJN <td>CL-4-FJN-S</td> <td>1/4-28</td> <td>5/32</td> <td>7/16</td>	CL-4-FJN-S	1/4-28	5/32	7/16
CL-5-FJN <td>CL-5-FJN-S</td> <td>5/16-24</td> <td>3/16</td> <td>1/2</td>	CL-5-FJN-S	5/16-24	3/16	1/2
CL-6-FJN <td>CL-6-FJN-S</td> <td>3/8-24</td> <td>7/32</td> <td>9/16</td>	CL-6-FJN-S	3/8-24	7/32	9/16



## METRIC

STEEL PART NO.	STAINLESS STEEL PART NO.	A THREAD	B	C
—	CLM-4-JN-S	M4	.08	7mm
—	CLM-5-JN-S	M5	.10	8mm
CLM-6-JN	CLM-6-JN-S	M6	.13	10mm
CLM-8-JN	CLM-8-JN-S	M8	.16	13mm
CLM-10-JN	CLM-10-JN-S	M10	.20	17mm
CLM-12-JN	CLM-12-JN-S	M12	.24	19mm
CLM-16-JN	CLM-16-JN-S	M16	.31	24mm
CLM-20-JN	CLM-20-JN-S	M20	.39	30mm
CLM-24-JN	—	M24	.47	36mm



**MANUFACTURING CO.**

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

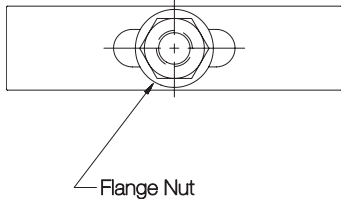
# FLANGE NUTS

STEEL: 12L14, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300-SERIES, PASSIVATE FINISH

## USA



Flanged face provides a large bearing surface to avoid damaging the part underneath, especially when clamping over a slot. Precision machined from one solid piece of steel for extra strength.



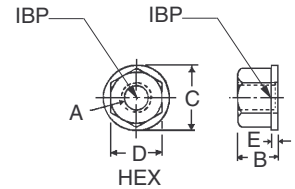
STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C DIA	D	E
—	CL-123	#10-24	5/16	1/2	3/8	.08
—	CL-125	1/4-20	5/16	9/16	7/16	
CL-1-FN	—			5/8	1/2	.12
—	CL-126	5/16-18	3/8	11/16	9/16	.09
CL-9-FN	—			3/4		.12
CL-2-FN	CL-127	3/8-16	1/2	7/8	11/16	.12
CL-3-FN	CL-128	1/2-13	11/16	1-1/8	7/8	.20
CL-4-FN	CL-129	5/8-11	13/16	1-3/8	1-1/16	
CL-5-FN	—	3/4-10	1	1-5/8	1-1/4	.25
CL-6-FN	—	7/8-9	1-1/8	1-3/4	1-7/16	.32
CL-7-FN	—	1"-8	1-1/4	2	1-5/8	.28
CL-10-FN	—	1-1/4"-7	1-3/8	2-1/4	1-13/16	.25

## USA FINE

—	CL-124	#10-32	5/16	1/2	3/8	.08
CL-1-FFN	—	1/4-28	5/16	5/8	1/2	.12
CL-9-FFN	—	5/16-24	3/8	3/4	9/16	
CL-2-FFN	—	3/8-24	1/2	7/8	11/16	.20
CL-3-FFN	—	1/2-20	11/16	1-1/8	7/8	
CL-4-FFN	—	5/8-18	13/16	1-3/8	1-1/16	.25
CL-5-FFN	—	3/4-16	1	1-5/8	1-1/4	
CL-7-FFN	—	1"-14	1-1/4	2	1-5/8	.25

## METRIC

CLM-6-FN	—	M6	.31	.63	10mm	.12
CLM-8-FN	—	M8	.39	.75	13mm	
CLM-10-FN	—	M10	.51	.87	17mm	.20
CLM-12-FN	—	M12	.67	1.10	19mm	
CLM-16-FN	—	M16	.83	1.34	24mm	.24
CLM-20-FN	—	M20	.98	1.61	30mm	
CLM-24-FN	—	M24	1.26	2.01	36mm	.28

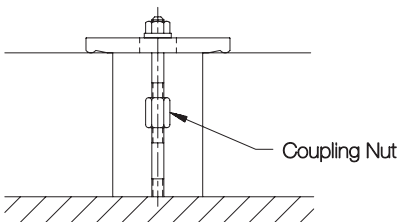


# COUPLING NUTS

12L14 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



For joining two or more studs together to create an extra-long stud.

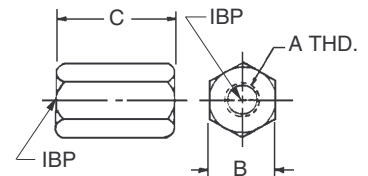


## USA

PART NO.	A	B	C
CL-0-CN	1/4-20	1/2	5/8
CL-00-CN	5/16-18	9/16	7/8
CL-1-CN	3/8-16	11/16	1
CL-2-CN	1/2-13	7/8	1-1/4
CL-3-CN	5/8-11	1-1/16	1-5/8
CL-4-CN	3/4-10	1-1/4	1-7/8
CL-6-CN	1"-8	1-5/8	2-1/2

## METRIC

CLM-6-CN	M6	10mm	.71
CLM-8-CN	M8	13mm	.79
CLM-10-CN	M10	17mm	.98
CLM-12-CN	M12	19mm	1.18
CLM-16-CN	M16	24mm	1.57
CLM-20-CN	M20	30mm	1.97



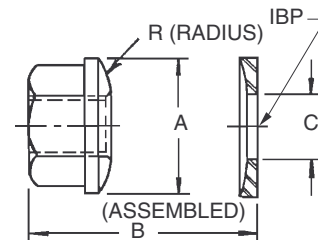
**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# SPHERICAL NUTS AND WASHERS

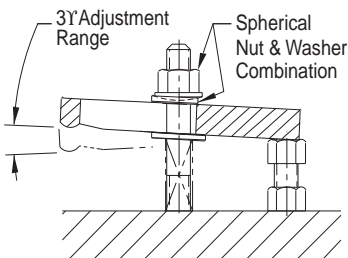
12L14 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



**NOW ALSO AVAILABLE IN STAINLESS STEEL!**



Combination nut and washer that compensates whenever a stud and clamp strap are not perpendicular. The nut has a convex spherical radius, while the washer has a matching concave spherical radius.



USA

STEEL PART NO.	STAINLESS STEEL PART NO.	THREAD	HEX	A DIA	B	C DIA	R
CL-1-SNW	CL-1-SNW-S	1/4-20	1/2	5/8	15/32	5/16	3/4
CL-9-SNW	CL-9-SNW-S	5/16-18	9/16	3/4	17/32	3/8	1
CL-2-SNW	CL-2-SNW-S	3/8-16	11/16	7/8	19/32	7/16	1-1/4
CL-3-SNW	CL-3-SNW-S	1/2-13	7/8	1-1/8	7/8	9/16	1-1/2
CL-4-SNW	CL-4-SNW-S	5/8-11	1-1/16	1-3/8	1	11/16	1-3/4
CL-5-SNW	CL-5-SNW-S	3/4-10	1-1/4	1-5/8	1-3/16	7/8	2-1/4
CL-6-SNW	—	7/8-9	1-7/16	1-3/4	1-5/16	1	2-1/2
CL-7-SNW	—	1"-8	1-5/8	2	1-7/16	1-1/8	2-3/4

METRIC

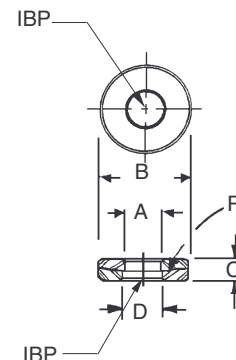
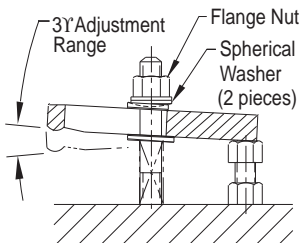
CLM-6-SNW	—	M6	10mm	5/8	.47	5/16	3/4
CLM-8-SNW	—	M8	13mm	3/4	.55	3/8	1
CLM-10-SNW	—	M10	17mm	7/8	.69	7/16	1-1/4
CLM-12-SNW	—	M12	19mm	1-1/8	.87	9/16	1-1/2
CLM-16-SNW	—	M16	24mm	1-3/8	.98	11/16	1-3/4
CLM-20-SNW	—	M20	30mm	1-5/8	1.18	7/8	2-1/4
CLM-24-SNW	—	M24	36mm	2	1.41	1	2-3/4

# SPHERICAL WASHERS

STEEL: 12L14, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
STAINLESS STEEL: 300-SERIES



Two-piece washer that compensates whenever a stud and clamp strap are not perpendicular. The top washer has a convex spherical radius, while the bottom washer has a matching concave spherical radius.



USA & METRIC

STEEL PART NO.	STAINLESS STEEL PART NO.	BOLT SIZE	A DIA	B DIA	C	D DIA	R
—	CL-144	#10 & M5	7/32	1/2	1/8	1/4	3/4
CL-1-SW	CL-145	1/4 & M6	9/32	5/8	3/16	5/16	3/4
CL-11-SW	—	5/16 & M8	11/32	3/4	1/4	3/8	1
—	CL-146	—	—	13/16	7/32	—	—
CL-2-SW	—	3/8 & M10	13/32	7/8	1/4	7/16	1-1/4
—	CL-147	—	—	1	—	—	—
CL-3-SW	CL-148	1/2 & M12	17/32	1-1/8	5/16	9/16	1-1/2
CL-4-SW	CL-149	5/8 & M16	21/32	1-3/8	—	11/16	1-3/4
CL-5-SW	CL-150	3/4 & M18	25/32	1-5/8	3/8	7/8	2-1/4
CLM-20-SW	—	M20	.83	—	—	7/8	—
CL-6-SW	—	7/8 & M22	15/16	1-3/4	—	1	2-1/2
CL-7-SW	—	1 & M24	1-1/16	2	—	1-1/8	2-3/4
CL-8-SW	—	1-1/8	1-3/16	2-1/4	1/2	1-1/4	—
CL-9-SW	—	1-1/4 & M30	1-5/16	2-5/8	—	1-3/8	3
CL-10-SW	—	1-1/2 & M36	1-9/16	2-7/8	—	1-5/8	—



**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# FLAT WASHERS

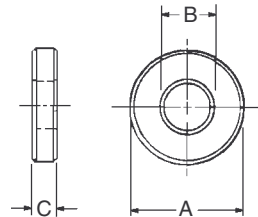
STEEL: 1010, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300-SERIES



Thick, heavy-duty washer with both faces held flat and parallel. Available in steel or stainless steel.

## USA & METRIC

STEEL PART NO.	STAINLESS STEEL PART NO.	BOLT SIZE	A DIA	B DIA	C
—	CL-254	#10 or M5	7/16	7/32	5/64
—	CL-255	1/4 or M6	1/2	9/32	5/64
CL-7-FW	—		5/8		1/8
—	CL-256	5/16 or M8	5/8	11/32	3/32
CL-14-FW	—		3/4		1/8
—	CL-257	3/8 or M10	3/4	13/32	3/32
CL-1-FW	—		7/8		1/8
CL-8-FW	—	1/2 or M12	1	17/32	3/16
CL-2-FW	—		1-1/8		1/8
CL-9-FW	CL-258	5/8 or M16	1-3/8	21/32	3/16
CL-3-FW	—		1-3/8		1/8
CL-10-FW	CL-259	3/4 or M18	1-5/8	25/32	3/16
CL-4-FW	—		1-5/8		1/4
CL-11-FW	CL-260	M20	1-5/8	.827	1/4
CLM-10-FW	—		1-3/4		1/4
CL-13-FW	—	7/8 or M22	1-3/4	29/32	1/4
CL-12-FW	—	1	2	1-1/32	9/32

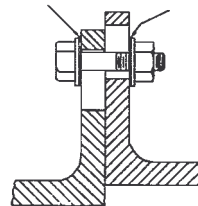


# KNURLED-FACE WASHERS

4130 STEEL, HEAT TREATED 125,000-140,000 PSI PER MIL-H-6875, ZINC PLATED YELLOW CHROMATE



Serrated Washers  
Teeth Facing Inward

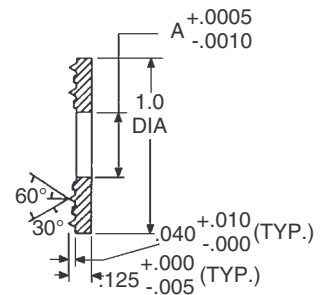
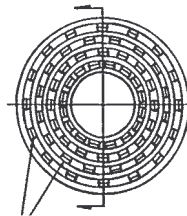


Flat washer with a serrated face to prevent two parts from sliding in relation to each other. Close tolerance on washer ID prevents the stud from slipping.

## USA

PART NO.	BOLT DIA	A DIA
CL-3-KFW	#10	.1935
CL-4-KFW	1/4	.2500
CL-5-KFW	5/16	.3125
CL-6-KFW	3/8	.3750

64 TEETH, 16 EQUALLY SPACED ON EACH DIAMETER WITH ALTERNATE ROWS STAGGERED



## MANUFACTURING CO.

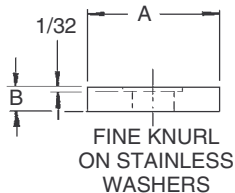
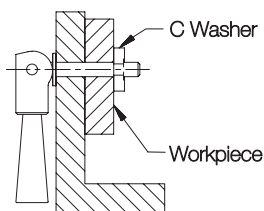
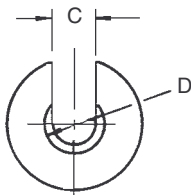
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# C WASHERS

STEEL: 12L14, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300-SERIES



Washer that slides in and out of position for clear loading. Can be used with a nut, or by sliding it into a radial groove on a drawbar. Available in steel or stainless steel.

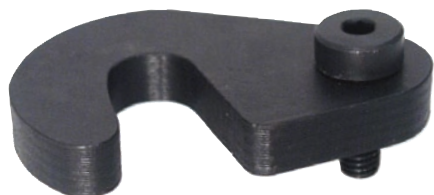


## USA & METRIC

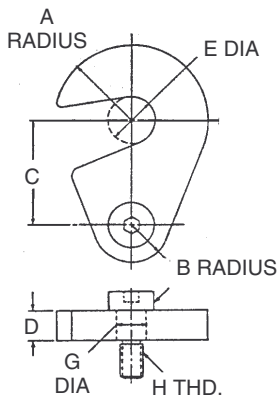
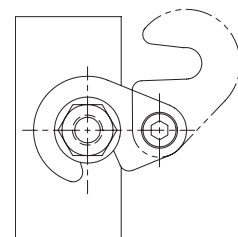
STEEL PART NO.	STAINLESS STEEL PART NO.	BOLT SIZE	A DIA	B	C	D DIA
CL-1-CW	—	#10 or M5	1/2	3/16	13/64	11/32
CL-3-CW	—	1/4 or M6	3/4	1/4	17/64	13/32
—	CL-155		7/8	3/16	9/32	25/64
CL-18-CW	—	5/16 or M8	1	1/4	17/64	13/32
CL-5-CW	—		3/16	21/64	1/2	
—	CL-157	3/8 or M10	1-1/4	5/16	13/32	5/8
CL-6-CW	—		3/8	23/32		
CL-7-CW	—		1-1/2	3/8	23/32	
CL-22-CW	—	1/2 or M12	1-3/4	1/4	17/32	29/32
CL-8-CW	—		1-7/8	3/8		
CL-24-CW	—	5/8 or M16	2-1/4	3/8	21/32	1-3/32
CL-9-CW	—		2-1/8	7/16		
CL-26-CW	—	3/4 or M18	2-1/2	7/16	25/32	1-9/32
CL-11-CW	—		2-1/2	7/16		
CL-12-CW	—	1 or M24	2-1/2	7/16	1-1/32	1-21/32
CL-15-CW	—		1/2	1/2		

# SWING C WASHERS

1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



Permanently attached C washer that swings out of the way for clear loading. Can be reversed to swing into position either clockwise or counterclockwise. Shoulder Screw furnished.



## USA

PART NO.	STUD SIZE	A	B	C	D	E DIA	G DIA	H	SHOULDER SCREW (FURNISHED)
CL-1-SCW	3/8	3/4	3/8	1	1/4	13/32	3/8	5/16-18	CL-24-SS
CL-2-SCW	1/2	1	1/2	1-1/4	3/8	17/32			CL-2-SS
CL-3-SCW	5/8	1-1/8	9/16	1-1/2	3/8	21/32	1/2	3/8-16	CL-3-SS
CL-4-SCW	3/4	1-1/4	5/8	1-3/4	1/2	13/16			CL-4-SS

## METRIC

CLM-1-SCW	M10	3/4	3/8	1	.236	13/32	10mm	M8	CLM-1006-SS
CLM-2-SCW	M12	1	1/2	1-1/4	.375	17/32			CLM-1010-SS
CLM-3-SCW	M16	1-1/8	9/16	1-1/2	.375	21/32	13mm	M10	CLM-1310-SS
CLM-4-SCW	M20	1-1/4	5/8	1-3/4	.472	13/16			CLM-1312-SS



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

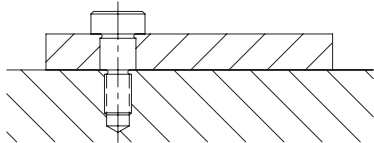
# SHOULDER SCREWS

ALLOY STEEL, HEAT TREATED RC 32-43, BLACK OXIDE FINISH

## USA



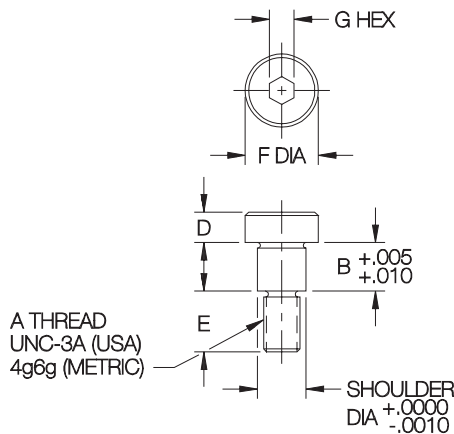
Precision close-tolerance Shoulder Screw. Shoulder diameter is ground to a closer tolerance than ordinary stripper bolts for better bearing action. Shoulder length is held to a plus tolerance to allow a nominal-size plate to rotate freely underneath the head.



PART NO.	SHOULDER DIA		A	B		D	E	F DIA	G							
	NOMINAL	ACTUAL		NOMINAL	ACTUAL											
CL-5-SS	1/4	.2500	#10-24	1/4	.2500	3/16	3/8	3/8	1/8							
CL-12-SS				3/8	.3750											
CL-13-SS				1/2	.500											
CL-37-SS				5/8	.6250											
CL-15-SS				3/4	.750											
CL-16-SS				1	1.0000											
CL-1-SS	5/16	.3125	1/4-20	1/4	.2500	7/32	7/16	7/16	5/32							
CL-6-SS				5/16	.3125											
CL-11-SS				3/8	.3750											
CL-20-SS				1/2	.5000											
CL-21-SS				5/8	.6250											
CL-7-SS				3/4	.7500											
CL-8-SS	1	1.0000														
CL-24-SS	3/8	.3750	5-16-18	1/4	.2500	1/4	1/2	9/16	3/16							
CL-2-SS				3/8	.3750											
CL-14-SS				1/2	.5000											
CL-9-SS				5/8	.6250											
CL-10-SS				3/4	.7500											
CL-47-SS				1	1.0000											
CL-3-SS	1/2	.5000	3/8-16	3/8	.3750	5/16	5/8	3/4	1/4							
CL-4-SS				1/2	.5000											
CL-31-SS				5/8	.6250											
CL-32-SS				3/4	.7500											
CL-46-SS				1	1.0000											
CL-33-SS				1/2	.5000											
CL-34-SS	5/8	.6250	1/2-13	5/8	.6250	3/8	3/4	7/8	5/16							
CL-35-SS				3/4	.7500											
CL-36-SS				1	1.0000											
CL-38-SS				1/2	.5000											
CL-39-SS				3/4	.7500					5/8-11	3/4	.7500	1/2	7/8	1	3/8
CL-40-SS											1	1.0000				

## METRIC

CLM-806-SS	8mm	.3150	M6	6mm	.2362	.22	.44	.51	4mm
CLM-808-SS				8mm	.3150				
CLM-810-SS				10mm	.3937				
CLM-812-SS				12mm	.4724				
CLM-816-SS				16mm	.6299				
CLM-820-SS				20mm	.7874				
CLM-1006-SS	10mm	.3937	M8	6mm	.2362	.28	.52	.63	5mm
CLM-1008-SS				8mm	.3150				
CLM-1010-SS				10mm	.3937				
CLM-1012-SS				12mm	.4724				
CLM-1016-SS				16mm	.6299				
CLM-1020-SS				20mm	.7874				
CLM-1310-SS	13mm	.5118	M10	10mm	.3937	.35	.65	.71	6mm
CLM-1312-SS				12mm	.4724				
CLM-1316-SS				16mm	.6299				
CLM-1320-SS				20mm	.7874				
CLM-1610-SS	16mm	.6299	M12	10mm	.3937	.43	.72	.94	8mm
CLM-1612-SS				12mm	.4724				
CLM-1616-SS				16mm	.6299				
CLM-1620-SS				20mm	.7874				
CLM-2016-SS	20mm	.7874	M16	16mm	.6299	.55	.88	1.18	10mm
CLM-2020-SS				20mm	.7874				
CLM-2025-SS				25mm	.9843				

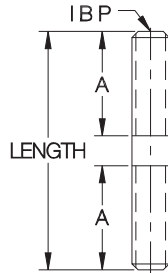


## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# CLAMPING STUDS

STEEL: 1144 STEEL, 100,000 PSI MIN. YIELD, 115,000 PSI MIN. TENSILE, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300 SERIES



High-strength general-purpose clamping stud, for use with a T-Nut, or for installation directly into a fixture plate. Available in thread sizes from 1/4-20 to 1"-8 (M6 to M20 in metric), each in a choice of several lengths. Now also available in stainless steel, in 3/8-16, 1/2-13, and 5/8-11 thread sizes (for smaller stainless sizes, see Fixture Studs, page 169).

## STEEL (USA)

PART NO.	THREAD SIZE	LENGTH	A	
CL-1/4-20X1.50-STUD	1/4-20	1.50	5/8	
CL-1/4-20X2.00-STUD		2.00	7/8	
CL-1/4-20X2.50-STUD		2.50	1	
CL-1/4-20X3.00-STUD		3.00		
CL-1/4-20X3.50-STUD		3.50		
CL-1/4-20X4.00-STUD		4.00		
CL-5/16-18X1.50-STUD	5/16-18	1.50	9/16	
CL-5/16-18X2.00-STUD		2.00	13/16	
CL-5/16-18X2.50-STUD		2.50	1-1/16	
CL-5/16-18X3.00-STUD		3.00		
CL-5/16-18X3.50-STUD		3.50		
CL-5/16-18X4.00-STUD		4.00		
CL-5/16-18X4.50-STUD	4.50	1-1/8		
CL-5/16-18X5.00-STUD	5.00			
CL-5/16-18X6.00-STUD	6.00			
CL-3/8-16X1.50-STUD	3/8-16		1.50	9/16
CL-3/8-16X2.00-STUD			2.00	13/16
CL-3/8-16X2.50-STUD			2.50	1-1/16
CL-3/8-16X3.00-STUD		3.00		
CL-3/8-16X3.50-STUD		3.50		
CL-3/8-16X4.00-STUD		4.00		
CL-3/8-16X4.50-STUD	4.50	1-1/4		
CL-3/8-16X5.00-STUD	5.00			
CL-3/8-16X5.50-STUD	5.50			
CL-3/8-16X6.00-STUD	6.00			
CL-3/8-16X6.50-STUD	6.50			
CL-3/8-16X7.00-STUD	7.00			
CL-3/8-16X7.50-STUD	7.50			
CL-3/8-16X8.00-STUD	8.00			
CL-1/2-13X2.00-STUD	1/2-13	2.00	3/4	
CL-1/2-13X2.50-STUD		2.50	1	
CL-1/2-13X3.00-STUD		3.00	1-1/4	
CL-1/2-13X3.50-STUD		3.50		
CL-1/2-13X4.00-STUD		4.00		
CL-1/2-13X4.50-STUD		4.50		
CL-1/2-13X5.00-STUD		5.00	1-1/2	
CL-1/2-13X5.50-STUD		5.50		
CL-1/2-13X6.00-STUD		6.00		
CL-1/2-13X6.50-STUD		6.50		
CL-1/2-13X7.00-STUD		7.00		
CL-1/2-13X7.50-STUD		7.50		
CL-1/2-13X8.00-STUD	8.00	2		
CL-1/2-13X8.50-STUD	8.50			
CL-1/2-13X9.00-STUD	9.00			
CL-1/2-13X10.00-STUD	10.00			
CL-1/2-13X12.00-STUD	12.00			

## STEEL (USA) (Cont.)

PART NO.	THREAD SIZE	LENGTH	A
CL-5/8-11X2.50-STUD	5/8-11	2.50	15/16
CL-5/8-11X3.00-STUD		3.00	1-3/16
CL-5/8-11X3.50-STUD		3.50	1-7/16
CL-5/8-11X4.00-STUD		4.00	
CL-5/8-11X4.50-STUD		4.50	
CL-5/8-11X5.00-STUD		5.00	
CL-5/8-11X5.50-STUD		5.50	1-3/4
CL-5/8-11X6.00-STUD		6.00	
CL-5/8-11X6.50-STUD		6.50	
CL-5/8-11X7.00-STUD		7.00	
CL-5/8-11X7.50-STUD		7.50	
CL-5/8-11X8.00-STUD		8.00	
CL-5/8-11X9.00-STUD	9.00	2	
CL-5/8-11X10.00-STUD	10.00		
CL-5/8-11X12.00-STUD	12.00		
CL-5/8-11X14.00-STUD	14.00		
CL-3/4-10X3.00-STUD	3/4-10	3.00	1-1/8
CL-3/4-10X3.50-STUD		3.50	1-3/8
CL-3/4-10X4.00-STUD		4.00	1-5/8
CL-3/4-10X5.00-STUD		5.00	
CL-3/4-10X6.00-STUD		6.00	
CL-3/4-10X7.00-STUD		7.00	
CL-3/4-10X8.00-STUD	8.00	2	
CL-3/4-10X9.00-STUD	9.00		
CL-3/4-10X10.00-STUD	10.00		
CL-3/4-10X12.00-STUD	12.00		
CL-3/4-10X14.00-STUD	14.00		
CL-3/4-10X16.00-STUD	16.00		
CL-7/8-9X4.00-STUD	7/8-9	4.00	1-9/16
CL-7/8-9X5.00-STUD		5.00	2-1/16
CL-7/8-9X6.00-STUD		6.00	2-1/4
CL-7/8-9X8.00-STUD		8.00	
CL-7/8-9X10.00-STUD		10.00	
CL-7/8-9X12.00-STUD		12.00	
CL-1-8X4.00-STUD	1"-8	4.00	1-1/2
CL-1-8X5.00-STUD		5.00	2
CL-1-8X6.00-STUD		6.00	2-1/2
CL-1-8X8.00-STUD		8.00	
CL-1-8X10.00-STUD		10.00	
CL-1-8X12.00-STUD		12.00	

## STAINLESS STEEL (USA)

PART NO.	THREAD SIZE	LENGTH	A
CL-3/8-16X2.00-STUD-S	3/8-16	2.00	13/16
CL-3/8-16X2.50-STUD-S		2.50	1-1/16
CL-3/8-16X3.00-STUD-S		3.00	1-1/4
CL-3/8-16X3.50-STUD-S		3.50	
CL-3/8-16X4.00-STUD-S		4.00	
CL-3/8-16X4.50-STUD-S		4.50	
CL-3/8-16X5.00-STUD-S	5.00	2	
CL-3/8-16X6.00-STUD-S	6.00		

## STAINLESS STEEL (USA) (Cont.)

PART NO.	THREAD SIZE	LENGTH	A	
CL-1/2-13X2.00-STUD-S	1/2-13	2.00	3/4	
CL-1/2-13X2.50-STUD-S		2.50	1	
CL-1/2-13X3.00-STUD-S		3.00	1-1/4	
CL-1/2-13X3.50-STUD-S		3.50		
CL-1/2-13X4.00-STUD-S		4.00		
CL-1/2-13X4.50-STUD-S		4.50		
CL-1/2-13X5.00-STUD-S		5.00	1-1/2	
CL-1/2-13X5.50-STUD-S		5.50		
CL-1/2-13X6.00-STUD-S		6.00		
CL-5/8-11X2.50-STUD-S		5/8-11		2.50
CL-5/8-11X3.00-STUD-S	3.00			1-3/16
CL-5/8-11X3.50-STUD-S	3.50			1-7/16
CL-5/8-11X4.00-STUD-S	4.00		1-11/16	
CL-5/8-11X4.50-STUD-S	4.50			
CL-5/8-11X5.00-STUD-S	5.00			
CL-5/8-11X5.50-STUD-S	5.50			
CL-5/8-11X6.00-STUD-S	6.00		1-3/4	

## STEEL (METRIC)

PART NO.	THREAD SIZE	LENGTH	A	
CLM-6X-35-STUD	M6	1.38 (35mm)	.59	
CLM-6X-50-STUD		1.97 (50mm)	.87	
CLM-6X-65-STUD		2.56 (65mm)	1.06	
CLM-6X-80-STUD		3.15 (80mm)		
CLM-6X-95-STUD		3.75 (95mm)		
CLM-6X-110-STUD		4.33 (110mm)		
CLM-8X-50-STUD	M8	1.97 (50mm)	.83	
CLM-8X-65-STUD		2.56 (65mm)	1.14	
CLM-8X-80-STUD		3.15 (80mm)	1.22	
CLM-8X-95-STUD		3.74 (95mm)		
CLM-8X-110-STUD	4.33 (110mm)	1.38		
CLM-10X-50-STUD	M10		1.97 (50mm)	.79
CLM-10X-65-STUD			2.56 (65mm)	1.08
CLM-10X-80-STUD			3.15 (80mm)	1.38
CLM-10X-95-STUD			3.74 (95mm)	
CLM-10X-110-STUD			4.33 (110mm)	
CLM-10X-125-STUD		4.92 (125mm)		
CLM-10X-150-STUD	5.91 (150mm)	1.54		
CLM-10X-175-STUD	6.89 (175mm)			
CLM-10X-200-STUD	7.87 (200mm)			
CLM-12X-65-STUD	M12		2.56 (65mm)	1.04
CLM-12X-80-STUD			3.15 (80mm)	1.34
CLM-12X-95-STUD			3.74 (95mm)	1.54
CLM-12X-110-STUD		4.33 (110mm)		
CLM-12X-125-STUD		4.92 (125mm)		
CLM-12X-150-STUD		5.91 (150mm)		
CLM-12X-175-STUD	6.89 (175mm)	1.85		
CLM-12X-200-STUD	7.87 (200mm)			
CLM-12X-250-STUD	9.84 (250mm)			
CLM-12X-300-STUD	11.81 (300mm)			
CLM-16X-80-STUD	M16	3.15 (80mm)	1.26	
CLM-16X-95-STUD		3.74 (95mm)	1.56	
CLM-16X-110-STUD		4.33 (110mm)	1.85	
CLM-16X-125-STUD		4.92 (125mm)		
CLM-16X-150-STUD		5.91 (150mm)		
CLM-16X-175-STUD		6.89 (175mm)		
CLM-16X-200-STUD	7.87 (200mm)	2.07		
CLM-16X-250-STUD	9.84 (250mm)			
CLM-20X-80-STUD	M20		3.15 (80mm)	1.18
CLM-20X-95-STUD			3.74 (95mm)	1.48
CLM-20X-110-STUD		4.33 (110mm)	1.77	
CLM-20X-125-STUD		4.92 (125mm)	2.07	
CLM-20X-150-STUD	5.91 (150mm)	2.17		
CLM-20X-175-STUD	6.89 (175mm)			
CLM-20X-200-STUD	7.87 (200mm)			



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# FIXTURE STUDS

300-SERIES STAINLESS STEEL, PASSIVATED

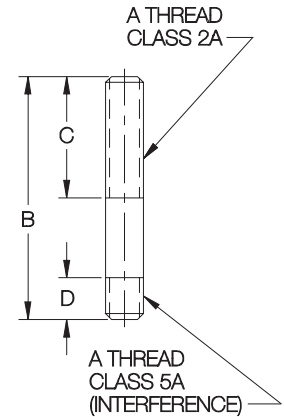


## Stainless Steel

Fixture studs have a thread-locking interference thread at the bottom end to install permanently in a fixture plate. These studs are available in small sizes from #10-24 to 3/8-16, each in a choice of several lengths.

### STAINLESS STEEL (USA)

PART NO.	A	B	C	D
CL-11310		1	1/2	
CL-11315	#10-24	1-1/2	3/4	7/32
CL-11320		2	3/4	
CL-11410		1	1/2	
CL-11415	#10-32	1-1/2	3/4	7/32
CL-11420		2	3/4	
CL-11515		1-1/2	5/8	
CL-11520	1/4-20	2	3/4	9/32
CL-11525		2-1/2	3/4	
CL-11530		3	1	
CL-11615		1-1/2	5/8	
CL-11620	5/16-18	2	1	11/32
CL-11625		2-1/2	1-1/4	
CL-11715		1-1/2	3/4	
CL-11725	3/8-16	2-1/2	1-1/4	11/32
CL-11730		3	1-3/8	
CL-11740		4	1-1/2	



The older I get, the more wisdom I find in the ancient rule of taking first things first — a process which often reduces the most complex human problems to manageable proportions.

— Dwight D. Eisenhower



### MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

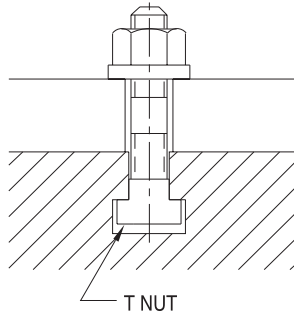
# T NUTS

STEEL: MILD STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 STAINLESS: 300-SERIES STAINLESS STEEL, PASSIVATED



**SMALLER  
 SIZES NOW  
 AVAILABLE!**

Sizes for all standard machine tables. Safety-stop feature prevents breaking the machine-table slot. Threads stop one short of going through T nut to prevent a stud from jacking the nut out of the table.



## STEEL (USA)

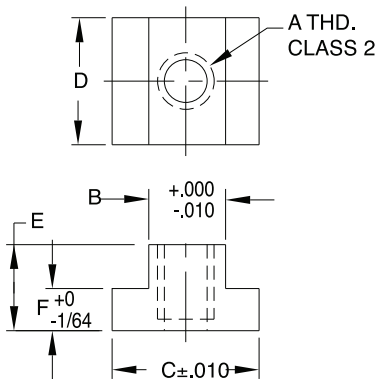
PART NO.	TABLE SLOT SIZE	A	B	C	D	E	F	
CL-26-TN	5/16 or 8mm	1/4-20	.307	9/16	9/16	1/4	3/16	
CL-18-TN	3/8 or 10mm	1/4-20	.370	5/8	7/8	7/16	7/32	
CL-19-TN		5/16-18						
CL-20-TN	7/16	5/16-18	.432	11/16	7/8	1/2		
CL-00-TN		3/8-16						
CL-12-TN	12mm	3/8-16	.467	3/4	3/4	1/2	17/64	
CL-21-TN	1/2	5/16-18	.495	7/8	7/8	1/2	9/32	
CL-0-TN		3/8-16						
CL-1-TN	9/16 or 14mm	3/8-16	.550		7/8	7/8	1/2	5/16
CL-9-TN		1/2-13						
CL-16-TN	5/8 or 16mm	3/8-16	.620	1	1-1/8	5/8	11/32	
CL-2-TN		1/2-13						
CL-3-TN	11/16 or 18mm	1/2-13	.682	1-1/8	1-1/4	3/4	7/16	
CL-10-TN		5/8-11	.682		1-1/4	3/4	7/16	
CL-10A-TN			.675	1-1/2	1-1/8	15/32		
CL-17-TN		3/4	1/2-13	.745	1-1/4	1-1/4	3/4	15/32
CL-4-TN	5/8-11							
CL-14-TN	20mm	5/8-11	.782	1-1/4	1-1/4	7/8	15/32	
CL-5-TN	13/16	5/8-11	.807					1-1/4
CL-11-TN		3/4-10						
CL-15-TN	22mm	3/4-10	.861	1-1/4	1-1/2	1	1/2	
CL-6-TN	7/8	3/4-10	.870	1-1/2			9/16	
CL-7-TN	1	3/4-10	.995	1-5/8	1-3/4	1	5/8	
CL-22-TN		7/8-9						
CL-8-TN	1-1/16	3/4-10	1.057		2	1-1/8	11/16	
CL-23-TN		7/8-9						
CL-24-TN	1-1/8	7/8-9	1.120	1-3/4	2	1-1/2	3/4	
CL-25-TN		1"-8						

## STAINLESS STEEL (USA)

PART NO.	TABLE SLOT SIZE	A	B	C	D	E	F
CL-00-STN	7/16	3/8-16	.432	11/16	7/8	1/2	7/32
CL-0-TN	1/2		.495	7/8	7/8	1/2	9/32
CL-1-STN	9/16 or 14mm	3/8-16	.550	7/8	7/8	1/2	5/16
CL-9-STN		1/2-13					
CL-2-STN	5/8 or 16mm	1/2-13	.620	1	1-1/8	5/8	11/32
CL-3-STN	11/16 or 18mm	1/2-13	.682	1-1/8	1-1/4	3/4	7/16
CL-10-STN		5/8-11					

## STEEL (METRIC)

PART NO.	TABLE SLOT SIZE	A	B	C	D	E	F
CLM-26-TN	5/16 or 8mm	M6	.307	9/16	9/16	1/4	3/16
CLM-18-TN	3/8 or 10mm	M6	.370	5/8	7/8	7/16	7/32
CLM-19-TN		M8					
CLM-00-TN	12mm	M10	.467	3/4	3/4	1/2	17/64
CLM-0-TN	1/2		.495	7/8	7/8	1/2	9/32
CLM-1-TN	9/16 or 14mm	M10	.546	7/8	7/8	5/8	5/16
CLM-9-TN		M12					
CLM-2-TN	5/8 or 16mm	M12	.620	1	1-1/8	5/8	11/32
CLM-3-TN	11/16 or 18mm	M12	.682	1-1/8	1-1/4	3/4	7/16
CLM-10-TN		M16					
CLM-4-TN		20mm					
CLM-5-TN	13/16	.807	1-1/2	1	9/16		
CLM-6-TN	22mm	M20	.861	1-1/4	1-1/2	1	1/2



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# T NUT & STUD SETS

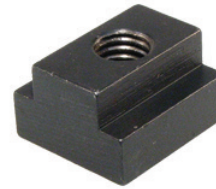
SEE PAGES 216, 221, AND 223 FOR MATERIAL SPECIFICATIONS



38-piece set includes a complete range of stud lengths with matching T nuts, flange nuts, and coupling nuts — all mounted in a handy wooden holder.

Set includes:

- (4) Studs of each length 3", 4", 5", 6", 7", 8", or 80, 95, 125, 150, 175, 200mm
- (6) T Nuts
- (6) Flange Nuts
- (4) Coupling Nuts
- (1) Handy Holder



## USA

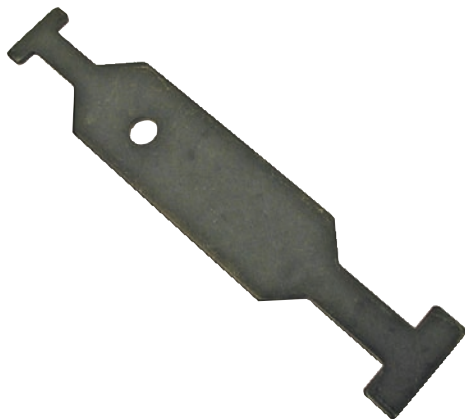
PART NO.	TABLE SLOT SIZE	STUDS (24)	T NUTS (6)	FLANGE NUTS (6)	COUPLING NUTS (4)	HOLDER (1)
CL-1-TNS	7/16	3/8-16	CL-00-TN	CL-2-FN	CL-1-CN	CL-1-TNH
CL-14-TNS	12mm		CL-12-TN			
CL-2-TNS	1/2	3/8-16	CL-0-TN	CL-2-FN	CL-1-CN	CL-1-TNH
CL-3-TNS	9/16 or 14mm		CL-1-TN			
CL-4-TNS	5/8 or 16mm	1/2-13	CL-9-TN	CL-3-FN	CL-2-CN	CL-2-TNH
CL-17-TNS		3/8-16	CL-16-TN	CL-2-FN	CL-1-CN	CL-1-TNH
CL-5-TNS	11/16 or 18mm	1/2-13	CL-2-TN	CL-3-FN	CL-2-CN	CL-2-TNH
CL-6-TNS		1/2-13	CL-3-TN	CL-3-FN	CL-2-CN	CL-2-TNH
CL-7-TNS	3/4	5/8-11	CL-10-TN	CL-4-FN	CL-3-CN	CL-3-TNH
CL-18-TNS		1/2-13	CL-17-TN	CL-3-FN	CL-2-CN	CL-2-TNH
CL-8-TNS	20mm	5/8-11	CL-4-TN	CL-4-FN	CL-3-CN	CL-3-TNH
CL-15-TNS		CL-14-TN				
CL-9-TNS	13/16	5/8-11	CL-5-TN	CL-4-FN	CL-3-CN	CL-3-TNH
CL-10-TNS	22mm	3/4-10	CL-11-TN	CL-5-FN	CL-4-CN	CL-4-TNH
CL-16-TNS		CL-15-TN	3/4-10	CL-6-TN	CL-5-FN	CL-4-CN
CL-11-TNS	7/8	CL-7-TN				
CL-12-TNS	1	CL-8-TN				
CL-13-TNS	1-1/16					

## METRIC

PART NO.	TABLE SLOT SIZE	STUDS	T NUTS	FLANGE NUTS	COUPLING NUTS	HOLDER
CLM-1-TNS	12mm	M10	CLM-00-TN	CLM-10-FN	CLM-10-CN	CL-1-TNH
CLM-2-TNS	1/2		CLM-0-TN			
CLM-3-TNS	9/16 or 14mm	M10	CLM-1-TN	CLM-10-FN	CLM-10-CN	CL-1-TNH
CLM-4-TNS	5/8 or 16mm	M12	CLM-9-TN	CLM-12-FN	CLM-12-CN	CL-2-TNH
CLM-5-TNS		M12	CLM-2-TN	CLM-12-FN	CLM-12-CN	CL-2-TNH
CLM-6-TNS	11/16 or 18mm	M12	CLM-3-TN	CLM-12-FN	CLM-12-CN	CL-2-TNH
CLM-7-TNS		M16	CLM-10-TN	CLM-16-FN	CLM-16-CN	CL-3-TNH
CLM-8-TNS	20mm	M16	CLM-4-TN	CLM-16-FN	CLM-16-CN	CL-3-TNH
CLM-9-TNS	13/16		CLM-5-TN			
CLM-11-TNS	22mm	M20	CLM-6-TN	CLM-20-FN	CLM-20-CN	CL-4-TNH

# T-SLOT CLEANERS

MILD STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



This handy tool is ideal for cleaning chips and debris out of machine-table T slots. Much safer than blowing chips out with air. Made of heat treated steel, a full .109" thick. Use for any T slot 3/8" (10mm) and above. One end is sized for smaller T slots, while the other end is sized for larger T slots.

PART NO.	OVERALL LENGTH	THICKNESS
CL-1-TSCL	6	.109

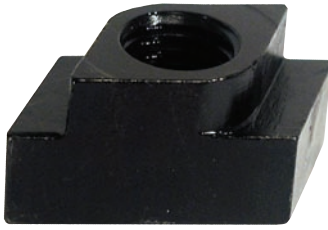


## MANUFACTURING CO.

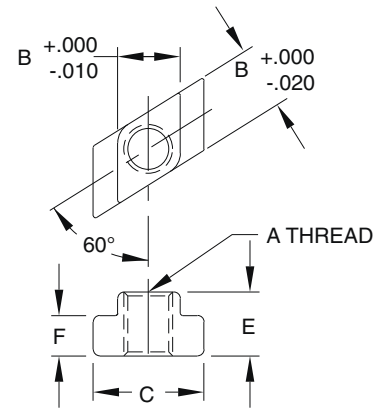
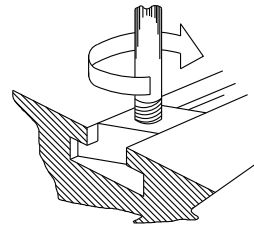
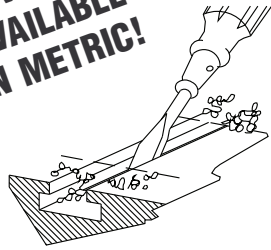
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# ROTARY T NUTS

ALLOY STEEL, RC 40-45, BLACK OXIDE FINISH



**NOW ALSO AVAILABLE IN METRIC!**



USA

PART NO.	TABLE SLOT SIZE	A	B	C	E	F
CL-0-RTN	1/2	3/8-16	.495	7/8	1/2	9/32
CL-9-RTN	9/16 or 14mm	1/2-13	.550	7/8	5/8	11/32
CL-2-RTN	5/8 or 16mm	1/2-13	.620	1	5/8	11/32
CL-3-RTN	11/16 or 18mm	1/2-13	.682	1-1/8	3/4	7/16
CL-10-RTN		5/8-11				
CL-4-RTN	3/4 or 20mm	5/8-11	.745	1-1/4	3/4	15/32
CL-7-RTN	1	3/4-10	.995	1-5/8	1	5/8

Rotary T Nuts can be inserted into the top of a T slot, unlike normal T Nuts, which must be inserted at the end of the slot. This allows adding T Nuts and Studs anywhere for a new setup, without tearing down any existing setups. Make sure that the area where the Rotary T Nut will be inserted is clear of debris, to allow the T nut to rotate a full 60 degrees. Same safety-stop thread feature as standard T Nuts.

METRIC

PART NO.	TABLE SLOT SIZE	A	B	C	E	F
CLM-0-RTN	1/2	M10	.495	7/8	1/2	9/32
CLM-9-RTN	9/16 or 14mm	M12	.550	7/8	5/8	11/32
CLM-2-RTN	5/8 or 16mm	M12	.620	1	5/8	11/32
CLM-3-RTN	11/16 or 18mm	M12	.682	1-1/8	3/4	7/16
CLM-10-RTN		M16				
CLM-4-RTN	3/4 or 20mm	M16	.745	1-1/4	3/4	15/32

# ROTARY T NUT AND STUD SETS

SEE PAGES 178, 189, AND 193 FOR MATERIAL SPECIFICATIONS



**NOW ALSO AVAILABLE IN METRIC!**

38-piece set includes a complete range of stud lengths with matching T nuts, flange nuts, and coupling nuts — all mounted in a handy wooden holder. Set includes:

- (4) Studs of each length 3", 4", 5", 6", 7" and 8" (80, 95, 125, 150, 175, and 200mm in metric)
- (6) Rotary T Nuts
- (6) Flange Nuts
- (4) Coupling Nuts

USA

PART NO.	TABLE SLOT SIZE	STUD S (24)	ROTARY T NUTS (6)	FLANGE NUTS (6)	COUPLING NUTS (4)	HOLDER (1)
CL-2-RTNS	1/2	3/8-16	CL-0-RTN	CL-2-FN	CL-1-CN	CL-1-TNH
CL-4-RTNS	9/16 or 14mm	1/2-13	CL-9-RTN	CL-3-FN	CL-2-CN	CL-2-TNH
CL-5-RTNS	5/8 or 16mm	1/2-13	CL-2-RTN	CL-3-FN	CL-2-CN	CL-2-TNH
CL-6-RTNS	11/16 or 18mm	1/2-13	CL-3-RTN	CL-3-FN	CL-2-CN	CL-2-TNH
CL-7-RTNS		5/8-11	CL-10-RTN	CL-4-FN	CL-3-CN	CL-3-TNH
CL-8-RTNS	3/4 or 20mm	5/8-11	CL-4-RTN	CL-4-FN	CL-3-CN	CL-3-TNH
CL-12-RTNS	1	3/4-10	CL-7-RTN	CL-5-FN	CL-4-CN	CL-4-TNH

METRIC

PART NO.	TABLE SLOT SIZE	STUD S (24)	ROTARY T NUTS (6)	FLANGE NUTS (6)	COUPLING NUTS (4)	HOLDER (1)
CLM-2-RTNS	1/2	M10	CLM-0-RTN	CLM-10-FN	CLM-10-CN	CL-1-TNH
CLM-4-RTNS	9/16 or 14mm	M12	CLM-9-RTN	CLM-12-FN	CLM-12-CN	CL-2-TNH
CLM-5-RTNS	5/8 or 16mm	M12	CLM-2-RTN	CLM-12-FN	CLM-12-CN	CL-2-TNH
CLM-6-RTNS	11/16 or 18mm	M12	CLM-3-RTN	CLM-12-FN	CLM-12-CN	CL-2-TNH
CLM-7-RTNS		M16	CLM-10-RTN	CLM-16-FN	CLM-16-CN	CL-3-TNH
CLM-8-RTNS	3/4 or 20mm	M16	CLM-4-RTN	CLM-16-FN	CLM-16-CN	CL-3-TNH



**MANUFACTURING CO.**

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

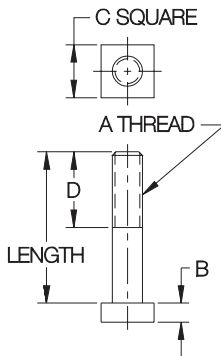
# T BOLTS

STEEL: 4140/5140, HEAT TREATED, 125,000 PSI MIN. TENSILE STRENGTH, BLACK OXIDE FINISH  
 STAINLESS STEEL: 302 STAINLESS



**ADDITIONAL SIZES  
 AND STAINLESS STEEL  
 NOW AVAILABLE!**

High-strength alloy steel clamping bolts for use in T slots. Available in larger thread sizes from 1/2-13 to 1"-8 (M10 to M20 in metric), each in a choice of several lengths, in steel or stainless steel.



## USA

PART NO.		A	B	C	D	LENGTH
STEEL	STAINLESS					
CL-0-TB-1.50	CL-0-TB-1.50-S	3/8-16	1/4	11/16	1-1/4	1.50
CL-0-TB-2.00	CL-0-TB-2.00-S				1-3/4	2.00
CL-0-TB-2.50	CL-0-TB-2.50-S				2	2.50
CL-0-TB-3.00	CL-0-TB-3.00-S					3.00
CL-0-TB-3.50	—					3.50
CL-0-TB-4.00	—					4.00
CL-0-TB-5.00	—				5.00	
CL-0-TB-6.00	—				6.00	
CL-1-TB-1.50	CL-1-TB-1.50-S	1/2-13	5/16	7/8	1-1/4	1.50
CL-1-TB-2.00	CL-1-TB-2.00-S				1-3/4	2.00
CL-1-TB-2.50	CL-1-TB-2.50-S				2	2.50
CL-1-TB-3.00	CL-1-TB-3.00-S					3.00
CL-1-TB-3.50	CL-1-TB-3.50-S					3.50
CL-1-TB-4.00	CL-1-TB-4.00-S					4.00
CL-1-TB-5.00	CL-1-TB-5.00-S				5.00	
CL-1-TB-6.00	CL-1-TB-6.00-S				6.00	
CL-1-TB-8.00	CL-1-TB-8.00-S	2-1/2	8.00			
CL-2-TB-1.50	—	5/8-11	13/32	1-1/8	1-1/4	1.50
CL-2-TB-2.00	—				1-3/4	2.00
CL-2-TB-2.50	—				2	2.50
CL-2-TB-3.00	—					3.00
CL-2-TB-3.50	—					3.50
CL-2-TB-4.00	CL-2-TB-4.00-S					4.00
CL-2-TB-5.00	CL-2-TB-5.00-S				5.00	
CL-2-TB-6.00	CL-2-TB-6.00-S				6.00	
CL-2-TB-8.00	CL-2-TB-8.00-S	2-1/2	8.00			
CL-3-TB-2.00	—	3/4-10	17/32	1-5/16	1-3/4	2.00
CL-3-TB-3.00	—				2	3.00
CL-3-TB-4.00	—					4.00
CL-3-TB-5.00	CL-3-TB-5.00-S					5.00
CL-3-TB-6.00	CL-3-TB-6.00-S					6.00
CL-3-TB-7.00	—				2-1/2	7.00
CL-3-TB-8.00	CL-3-TB-8.00-S					8.00
CL-4-TB-4.00	—				7/8-9	5/8
CL-4-TB-6.00	—	3-1/2	6.00			
CL-4-TB-8.00	—	4	7.00			
CL-5-TB-4.00	—	1"-8	11/16	1-11/16		
CL-5-TB-5.00	—				5.00	
CL-5-TB-6.00	—				6.00	
CL-5-TB-7.00	—				7.00	
CL-5-TB-8.00	—				4	8.00

## METRIC

CLM-10-TB-40	—	M10	.25	.69	1.18	1.57 (40mm)
CLM-10-TB-50	—				1.77	1.97 (50mm)
CLM-10-TB-75	—				1.97	2.95 (75mm)
CLM-10-TB-100	—	M12	.31	.87	1.97	3.94 (100mm)
CLM-12-TB-50	—				1.77	1.97 (50mm)
CLM-12-TB-65	—				1.97	2.56 (65mm)
CLM-12-TB-75	—					2.95 (75mm)
CLM-12-TB-90	—					3.54 (90mm)
CLM-12-TB-100	—					3.94 (100mm)
CLM-12-TB-125	—				4.92 (125mm)	
CLM-16-TB-50	—				M16	.39
CLM-16-TB-75	—	1.97	2.95 (75mm)			
CLM-16-TB-100	—	3.94 (100mm)				
CLM-16-TB-150	—	2.56	5.91 (150mm)			
CLM-20-TB-50	—	M20	.53	1.30	1.77	1.97 (50mm)
CLM-20-TB-75	—				1.97	2.95 (75mm)
CLM-20-TB-100	—				1.97	3.94 (100mm)



## MANUFACTURING CO.

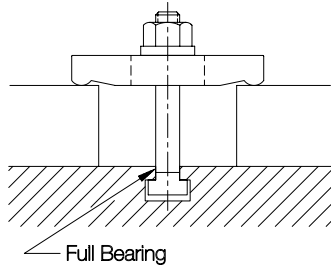
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# T-SLOT BOLTS

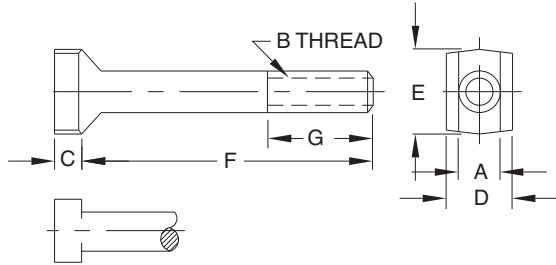
FORGED 1045 STEEL, BLACK OXIDE FINISH



T-Slot Bolt



High-strength bolt for T-slotted machine tables. Full bearing surfaces prevent twisting or jamming in table slots. Available in thread sizes from 3/8-16 to 3/4-10, each in a choice of several lengths.



## T-SLOT BOLTS (USA)

PART NO.	B THREAD	A	FITS TABLE SLOTS	C	D	E	F LENGTH	G
CL-6-TSB-1.00	3/8-16	3/8	3/8 7/16 1/2 10mm 12mm	3/16	5/8	13/16	1.00	.62
CL-6-TSB-1.50							1.50	1.00
CL-6-TSB-2.00							2.00	1.25
CL-6-TSB-2.50							2.50	1.50
CL-6-TSB-3.00							3.00	
CL-6-TSB-3.50							3.50	
CL-6-TSB-4.00	4.00							
CL-8-TSB-1.50	1/2-13	1/2	1/2 9/16 5/8 14mm 16mm	1/4	13/16	15/16	1.50	1.00
CL-8-TSB-2.00							2.00	1.25
CL-8-TSB-2.50							2.50	1.50
CL-8-TSB-3.00							3.00	
CL-8-TSB-3.50							3.50	
CL-8-TSB-4.00							4.00	
CL-8-TSB-5.00	5.00	2.00						
CL-8-TSB-6.00	6.00	2.00						
CL-10-TSB-1.50	5/8-11	5/8	5/8 11/16 3/4 18mm 20mm	5/16	1-1/32	1-3/16	1.50	1.00
CL-10-TSB-2.00							2.00	1.25
CL-10-TSB-2.50							2.50	1.50
CL-10-TSB-3.00							3.00	
CL-10-TSB-3.50							3.50	
CL-10-TSB-4.00							4.00	
CL-10-TSB-5.00	5.00	2.00						
CL-10-TSB-6.00	6.00	2.00						
CL-10-TSB-8.00	8.00	3.00						
CL-12-TSB-3.00	3/4-10	3/4	3/4 13/16 20mm 22mm	3/8	1-1/4	1-7/16	3.00	1.50
CL-12-TSB-3.50							3.50	
CL-12-TSB-4.00							4.00	
CL-12-TSB-5.00							5.00	
CL-12-TSB-6.00							6.00	2.00
CL-12-TSB-8.00							8.00	3.00



T-Slot Bolt Kit

34-piece set includes a complete range of T-Slot-Bolt lengths, with matching extension Studs, Flange Nuts, and Coupling Nuts. Set includes:

- (4) T-Slot Bolts in each of five different lengths
- (4) Studs
- (6) Flange Nuts
- (4) Coupling Nuts
- (1) Handy Holder

## T-SLOT BOLT KITS (USA)

PART NO.	FITS TABLE SIZES	T-SLOT BOLTS (4 EACH)	STUDS (4)	FLANGE NUTS (6)	COUPLING NUTS (4)	HOLDER (1)
CL-6-TSBK	3/8, 7/16, 1/2 10mm, 12mm	CL-6-TSB-1.50 CL-6-TSB-2.00 CL-6-TSB-2.50 CL-6-TSB-3.00 CL-6-TSB-4.00	CL-3/8-16X4.00-STUD	CL-2-FN	CL-1-CN	CL-1-TNH
CL-8-TSBK	1/2, 9/16, 5/8 14mm, 16mm	CL-8-TSB-2.00 CL-8-TSB-3.00 CL-8-TSB-4.00 CL-8-TSB-5.00 CL-8-TSB-6.00	CL-1/2-13X5.00-STUD	CL-3-FN	CL-2-CN	CL-2-TNH
CL-10-TSBK	5/8, 11/16, 3/4 16mm, 18mm	CL-10-TSB-3.00 CL-10-TSB-4.00 CL-10-TSB-5.00 CL-10-TSB-6.00 CL-10-TSB-8.00	CL-5/8-11X6.00-STUD	CL-4-FN	CL-3-CN	CL-3-TNH
CL-12-TSBK	3/4, 13/16 20mm, 22mm	CL-12-TSB-3.00 CL-12-TSB-4.00 CL-12-TSB-5.00 CL-12-TSB-6.00 CL-12-TSB-8.00	CL-3/4-10X7.00-STUD	CL-5-FN	CL-4-CN	CL-4-TNH



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

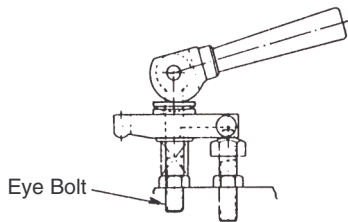
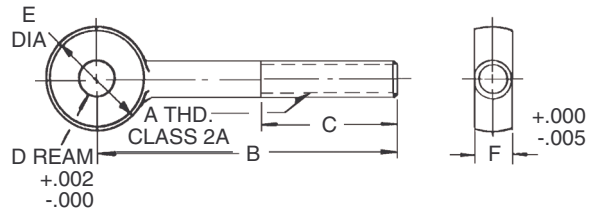
# EYE BOLTS

STEEL: 1144, 115,000 PSI MIN. TENSILE STRENGTH, 100,000 PSI MIN. YIELD STRENGTH, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300 SERIES



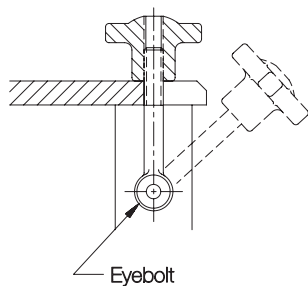
**ADDITIONAL  
 STAINLESS  
 SIZES!**

High-strength Eye Bolt with a reamed bearing hole. High-carbon steel, fully machined from solid barstock. Also available in stainless steel. Available in other lengths and materials as a special.



### USA

PART NO. STEEL	PART NO. STAINLESS STEEL	A	D DIA		B	C	E	F	
			NOMINAL	ACTUAL				NOMINAL	ACTUAL
CL-25-EB	CL-25-EB-S	1/4-20	3/16	.188	2	3/4	1/2	1/4	.250
CL-26-EB	CL-26-EB-S				3	1-1/4			
CL-31-EB	CL-31-EB-S	5/16-18	1/4	.250	3	1-1/2	5/8	5/16	.312
CL-32-EB	—				4	2			
CL-38-EB	—	3/8-16	5/16	.312	3	1-1/2	3/4	3/8	.375
CL-40-EB	CL-40-EB-S				3	1-1/2			
CL-37-EB	—				3-3/4	2			
CL-39-EB	CL-39-EB-S	1/2-13	3/8	.375	5	2-1/2	1	1/2	.500
CL-50-EB	CL-50-EB-S				3-3/4	1-1/2			
CL-51-EB	CL-51-EB-S	5/8-11	5/8	.625	4-1/2	2	1-1/4	5/8	.625
CL-62-EB	CL-62-EB-S				6	2-1/2			
CL-63-EB	CL-63-EB-S	3/4-10	5/8	.625	6	2-1/2	1-1/2	3/4	.750
CL-75-EB	—				3/4	2-1/2			
CL-76-EB	—				6	2-1/2			



### METRIC

CLM-25A-EB	CLM-25A-EB-S	M6	6mm	.236	1.97	.79	.47	6mm	.236
CLM-26A-EB	—				2.95	1.18			
CLM-31A-EB	CLM-31A-EB-S	M8	8mm	.315	2.95	1.57	.63	8mm	.315
CLM-32A-EB	—				3.94	1.97			
CLM-40-EB	CLM-40-EB-S	M10	10mm	.394	2.95	1.57	.79	10mm	.394
CLM-37-EB	CLM-37-EB-S				3.94	1.97			
CLM-39-EB	—	M12	12mm	.472	4.92	2.56	.94	12mm	.472
CLM-50A-EB	CLM-50A-EB-S				3.94	1.57			
CLM-51A-EB	CLM-51A-EB-S	M16	16mm	.630	4.92	1.97	1.26	16mm	.630
CLM-62-EB	CLM-62-EB-S				4.92	1.97			
CLM-63-EB	CLM-63-EB-S	M20	20mm	.787	5.91	2.56	1.57	20mm	.787
CLM-76A-EB	—				5.91	2.56			



## MANUFACTURING CO.

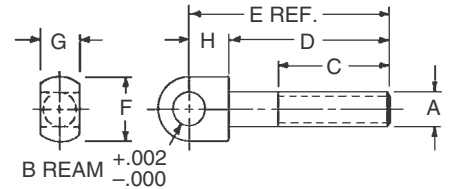
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# SWING BOLTS

STEEL: 1144, 115,000 PSI MIN. TENSILE STRENGTH, 100,000 PSI MIN. YIELD STRENGTH, BLACK OXIDE FINISH

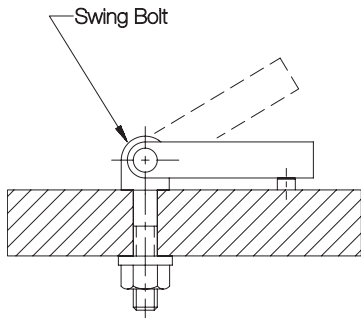


Shoulder-type Eye Bolt that can be used as a stationary hinge point. Reamed hole for smooth bearing.



### USA

PART NO.	A	B DIA		C	D	E	F DIA	G		H
		NOMINAL	ACTUAL					NOMINAL	ACTUAL	
CL-00-SB	1/4-20	1/4	.250	3/4	1-3/16	1-1/2	1/2	5/16	.312	5/16
CL-0-SB	5/16-18	5/16	.312	1	1-5/8	2	5/8	3/8	.375	3/8
CL-1-SB	3/8-16	3/8	.375	1-3/8	2	2-1/2	3/4	1/2	.500	1/2
CL-2-SB	1/2-13	1/2	.500	1-3/4	2-1/2	3-1/8	1	5/8	.625	5/8
CL-2A-SB				2-1/4	3-1/2	4-1/8				
CL-3-SB	5/8-11	5/8	.625	1-3/4	2-3/4	3-1/2	1-1/4	3/4	.750	3/4
CL-3A-SB				2-1/2	4	4-3/4				



### METRIC

CLM-00-SB	M6	6mm	.236	.79	1.18	1.57	.47	8mm	.315	.39
CLM-0-SB	M8	8mm	.315	.98	1.57	1.96	.63	10mm	.394	
CLM-1-SB	M10	10mm	.394	1.38	1.97	2.56	.79	12mm	.472	.59
CLM-2-SB	M12	12mm	.472	1.77	2.56	3.15	.94	14mm	.551	.59
CLM-2A-SB				2.17	3.54	4.13				
CLM-3-SB	M16	16mm	.630	1.77	2.76	3.55	1.26	18mm	.709	.79
CLM-3A-SB				2.56	3.94	4.73				

I try not to become a man of success, but rather try to become a man of value.

— Albert Einstein



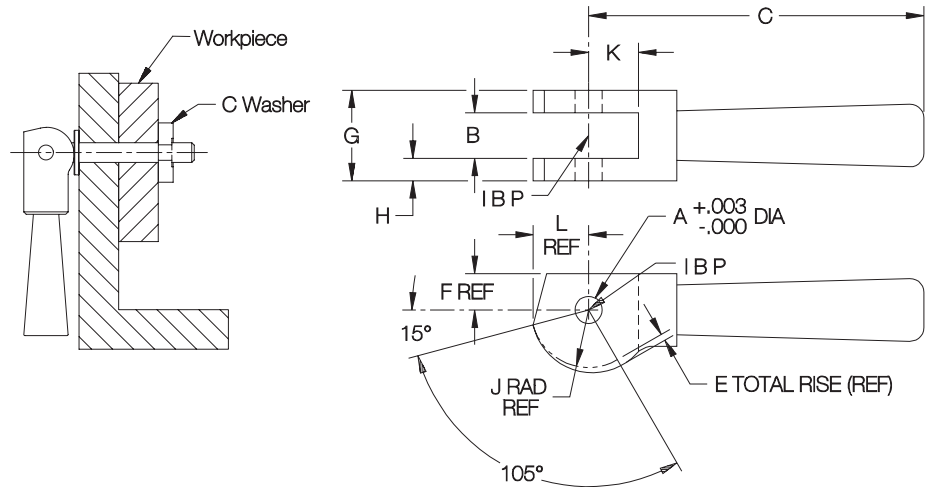
**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# DOUBLE CAMS

1020 STEEL, CARBURIZED-HARDENED BLACK OXIDE FINISH



Straddle-type cam handle that can be used with an Eyebolt or custom-made drawbar. Continuous-rise spiral cam locks securely in any position. Available in six USA and five metric sizes.

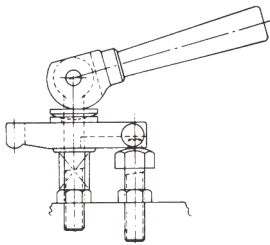


## USA

PART NO.	MATCHING EYEBOLT SIZE	A DIA		B		C	E	F	G	H	J	K	L	CLEVIS PIN REQD
		NOMINAL	ACTUAL	NOMINAL	ACTUAL									
CL-11-CH	1/4-20	3/16	.188	1/4	.266	2-17/32	.046	1/4	5/8	3/16	.40	.33	.38	CL-610-CLVP
CL-11A-CH	5/16-18	1/4	.250	5/16	.328					5/32				CL-810-CLVP
CL-12-CH	3/8-16	5/16	.313	3/8	.390	3-13/16	.062	5/16	7/8	1/4	.52	.54	.50	CL-1014-CLVP
CL-13-CH	1/2-13	3/8	.376	1/2	.516	4-5/8	.094	1/2	1-1/8	5/16	.79	.69	.76	CL-1218-CLVP
CL-14-CH	5/8-11	5/8	.626	5/8	.641	4-15/16	.109	9/16	1-1/4		.92	.85	.89	CL-2020-CLVP
CL-15-CH	3/4-10	5/8	.626	3/4	.766	5-1/8	.141	5/8	1-1/2	3/8	1.19	1.00	1.15	CL-2024-CLVP

## METRIC

CLM-11-CH	M6	6mm	.237	6mm	.266	2-17/32	.046	1/4	5/8	3/16	.40	.33	.38	CLM-616-CLVP
CLM-12-CH	M10	10mm	.395	10mm	.409	3-13/16	.062	5/16	7/8	1/4	.52	.54	.50	CLM-1023-CLVP
CLM-13-CH	M12	12mm	.473	12mm	.516	4-5/8	.094	1/2	1-1/8	5/16	.79	.69	.76	CLM-1229-CLVP
CLM-14-CH	M16	16mm	.631	16mm	.641	4-15/16	.109	9/16	1-1/4		.92	.85	.89	CLM-1632-CLVP
CLM-15-CH	M20	20mm	.788	20mm	.803	5-1/8	.141	5/8	1-1/2	3/8	1.19	1.00	1.15	CLM-2038-CLVP



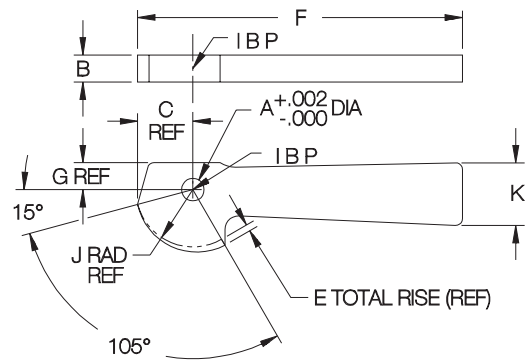
Double Cams are used with Eyebolts on Slotted-Heel Clamp Assemblies. See page 183.

# SINGLE CAMS

1020 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



Simple cam handle that mounts in a slot, or against a flat surface. Continuous-rise spiral cam locks securely in any position. Available in five sizes.



PART NO.	A DIA	B	C	E	F	G	J	K	CLEVIS PIN REQD
CL-1-CH	5/32	3/16	.38	.046	2-1/4	3/16	.40	1/2	CL-510-CLVP
CL-2-CH	1/4	1/4	.50	.062	3-1/4	1/4	.52	11/16	CL-816-CLVP
CL-3-CH	5/16	3/8	.76	.094	4-1/2	3/8	.79	7/8	CL-1020-CLVP
CL-4-CH	3/8	1/2	.89	.109	5	7/16	.92	15/16	CL-1224-CLVP
CL-5-CH	1/2	5/8	1.15	.141	5-1/2	1/2	1.19	1	CL-1628-CLVP



## MANUFACTURING CO.

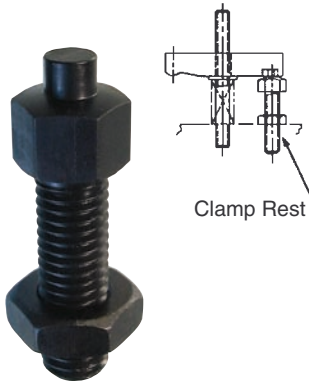
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# CLAMP RESTS

STEEL: 12L14, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 STAINLESS STEEL: 300 SERIES

## STEEL (USA)

PART NO.	A	C DIA	D	E	F	G
CL-1-CR	1/4-20	5/32	1/8	1/4	7/16	1-1/8
CL-1A-CR	5/16-18	7/32	3/16	5/16	1/2	1-11/16
CL-1B-CR						2-7/16
CL-2-CR	3/8-16	11/32	7/32	3/8	9/16	2-1/32
CL-3-CR						3-21/32
CL-4-CR	1/2-13	11/32	1/4	1/2	11/16	2-1/8
CL-5-CR						3-5/8
CL-6-CR	5/8-11	15/32	1/4	5/8	7/8	2-3/8
CL-7-CR						3-5/8
CL-8-CR	3/4-10	15/32	1/4	5/8	1-1/16	2-1/2
CL-9-CR						3-5/8



Steel

Rear support for Slotted-Heel Clamp Straps. Steel version has a hex head for adjustment, and is furnished with a jam nut. Stainless steel version has a drilled hole for turning with a rod.

## STEEL (METRIC)

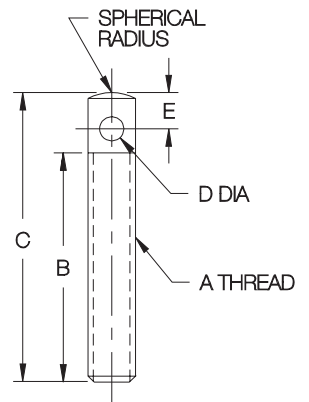
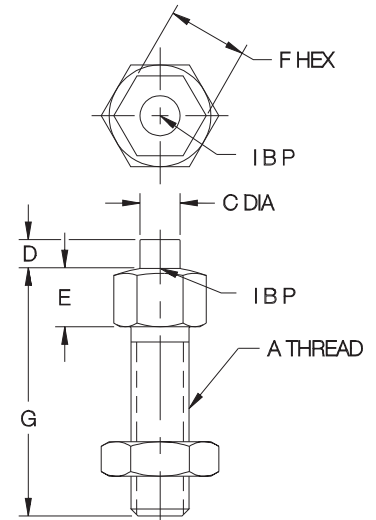
CLM-1-CR	M6	.157	.118	.20	10mm	1.06
CLM-1A-CR	M8	.217	.157	.31	13mm	1.77
CLM-2-CR	M10	.343	.236	.39	17mm	1.93
CLM-3-CR						3.70
CLM-4-CR	M12	.343	.236	.59	19mm	2.13
CLM-4A-CR						3.70
CLM-5-CR	M16	.472	.236	.59	24mm	2.13
CLM-7-CR						3.70
CLM-8-CR	M20	.472	.276	.59	30mm	2.48
CLM-9-CR						3.66

## STAINLESS STEEL (USA)

PART NO.	A	B	C	D DIA	E
CL-13407	#10-32	1/2	3/4	3/32	1/8
CL-13410		3/4	1		
CL-13415	1/4-20	1-1/4	1-1/2	1/8	3/16
CL-13510		11/16	1		
CL-13515	1/4-20	1-3/16	1-1/2	1/8	3/16
CL-13520		1-7/16	1-3/4		
CL-13612	5/16-18	7/8	1-1/4	5/32	3/16
CL-13615		1-1/8	1-1/2		
CL-13620	3/8-16	1-5/8	2	3/16	3/16
CL-13715		1-1/8	1-1/2		
CL-13717	3/8-16	1-3/8	1-3/4	3/16	3/16
CL-13727		2-3/8	2-3/4		

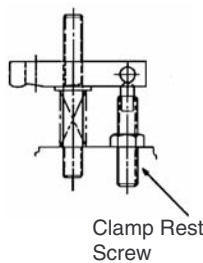


Stainless Steel



# CLAMP REST SCREWS

STEEL: 12L14, CARBURIZED-HARDENED, BLACK OXIDE FINISH

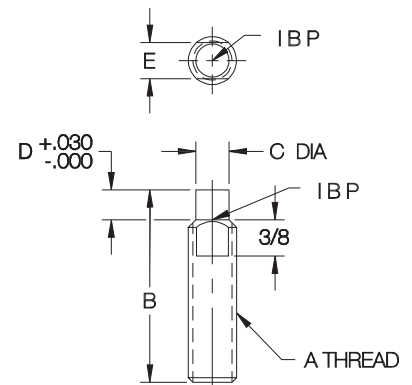


Clamp Rest Screw

Rear support for Drill-Spot-Heel Clamp Straps.

## USA

PART NO.	A	B	C DIA	D	E
CL-1-CRS	3/8-16	2	.250	.313	1/4
CL-2-CRS		2-1/2			
CL-3-CRS	1/2-13	3	.344	.313	3/8
CL-4-CRS		2			
CL-5-CRS	1/2-13	2-1/2	.344	.313	3/8
CL-6-CRS		3			

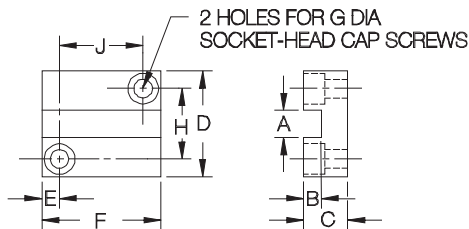
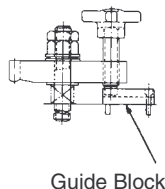


## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# GUIDE BLOCKS

1018 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH

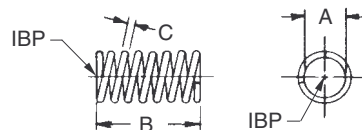
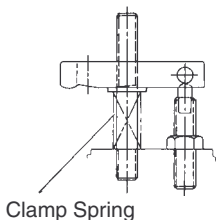


Rear slide block for Tapped-Heel Clamp Straps. Guides Clamp Strap straight back for loading.

PART NO.	FITS STUD SIZE	A	B	C	D	E	F	G	H	J
CL-2-GB	1/4-20 or M6	.198	.10	1/4	3/4	13/64	1-3/16	#6-32 or M4	15/32	25/32
CL-4-GB	3/8-16 or M10	.265	.20	1/2	1-1/8	7/32	2	#10-32 or M5	3/4	1-9/16
CL-6-GB	1/2-13 or M12	.390	.25	5/8	1-1/2		1-11/16		1	1-3/16
CL-8-GB	5/8-11 or M16	.515				1/4	1-5/8	1/4-20 or M6		1-1/8
CL-11-GB	3/4-10 or M20	.640	.37	3/4	1-3/4		2-13/32		1-1/4	1-29/32

# CLAMP SPRINGS

STEEL: SPRING STEEL, BLACK OXIDE FINISH  
STAINLESS STEEL: 300-SERIES



Sturdy spring that holds up a Clamp Strap for clear loading. Stainless steel springs are also available in custom lengths from 0.3 inches to 10.0 inches, in 0.1-inch increments. Note: Custom-length springs have open ends, while standard-length springs have closed ends.

Examples:

- CL-2430.7 Standard 0.7-inch length (#10-32)
- CL-2431.5 Custom 1.5-inch length (#10-32)

## STEEL

PART NO.	FITS STUD SIZE	A DIA	B	C DIA	NO. OF COILS
CL-5-SPG	1/4-20 or M6	19/64	1-1/8		7
CL-6-SPG	5/16-18 or M8	23/64	1-7/32	.062	6
CL-7-SPG	3/8-16 or M10	7/16	1-9/16		8
CL-9-SPG	1/2-13 or M12	9/16	1-11/16		7
CL-11-SPG	5/8-11 or M16	11/16	1-3/4	.091	5
CL-13-SPG	3/4-10 or M20	13/16	2-1/2		6-1/2

## STAINLESS STEEL

CL-2430.7	#10-32 or M5	13/64			
CL-2440.7	1/4-20 or M6	17/64	.7	.042	5-1/2
CL-2450.7	5/16-18 or M8	21/64	.7	.049	5
CL-2461.0	3/8-16 or M10	13/32	1.0		7



## MANUFACTURING CO.

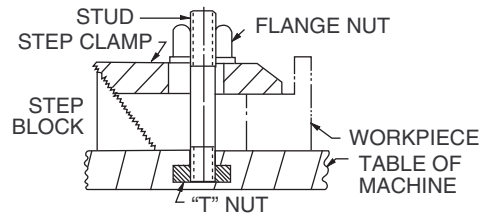
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: [www.carrlane.com](http://www.carrlane.com)

# CLAMPING KITS

SEE PAGES 199, 216, 221 & 223 FOR MATERIAL SPECIFICATIONS

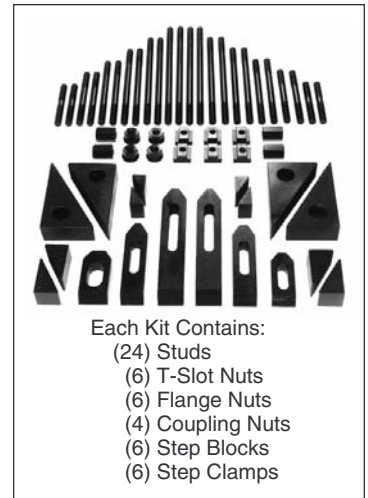


**Standard Blocks  
Metal Holder**



**High-Rise Blocks  
Wooden Holder**

Economical Clamping Kit with a wide assortment of Step Clamps and Blocks. Fully machined from top-grade steel. Available with standard Step Blocks in a metal holder (for wall or machine mounting), or with wider high-rise blocks in a wooden holder.



- Each Kit Contains:
- (24) Studs
  - (6) T-Slot Nuts
  - (6) Flange Nuts
  - (4) Coupling Nuts
  - (6) Step Blocks
  - (6) Step Clamps

## STANDARD BLOCKS (USA)

PART NO.	STUD SIZE	TABLE SLOT SIZE	T-NUT & STUD SET (1)	STEP CLAMPS (2) EACH	STEP BLOCK PAIRS (2) EACH	HOLDER (1)
CL-1-CK	3/8-16	7/16	CL-1-TNS	CL-32-STC CL-34-STC CL-36-STC	CL-10-BS CL-20-BS CL-30-BS	CL-1-CKMH
CL-20-CK		12mm	CL-14-TNS			
CL-2-CK		1/2	CL-2-TNS			
CL-3-CK		9/16 or 14mm	CL-3-TNS			
CL-24-CK	1/2-13	5/8 or 16mm	CL-17-TNS	CL-42-STC CL-44-STC CL-46-STC	CL-10-BS CL-20-BS CL-30-BS	CL-2-CKMH
CL-4-CK		9/16 or 14mm	CL-4-TNS			
CL-5-CK		5/8 or 16mm	CL-5-TNS			
CL-6-CK		11/16 or 18mm	CL-6-TNS			
CL-25-CK	5/8-11	3/4	CL-18-TNS	CL-52-STC CL-54-STC CL-56-STC	CL-10-BS CL-20-BS CL-30-BS	CL-3-CKMH
CL-7-CK		11/16 or 18mm	CL-7-TNS			
CL-8-CK		3/4	CL-8-TNS			
CL-21-CK		20mm	CL-15-TNS			
CL-9-CK		13/16	CL-9-TNS			

## HIGH-RISE BLOCKS (USA)

PART NO.	STUD SIZE	TABLE SLOT SIZE	T-NUT & STUD SET (1)	STEP CLAMPS (2) EACH	STEP BLOCK PAIRS (2) EACH	HOLDER (1)
CL-10-CK	1/2-13	9/16 or 14mm	CL-4-TNS	CL-42-STC CL-44-STC CL-46-STC	CL-40-BS CL-50-BS CL-60-BS	CL-4-CKH
CL-11-CK		5/8 or 16mm	CL-5-TNS			
CL-12-CK		11/16 or 18mm	CL-6-TNS			
CL-26-CK		3/4	CL-18-TNS			
CL-13-CK	5/8-11	11/16 or 18mm	CL-7-TNS	CL-52-STC CL-54-STC CL-56-STC	CL-40-BS CL-50-BS CL-60-BS	CL-5-CKH
CL-14-CK		3/4	CL-8-TNS			
CL-22-CK		20mm	CL-15-TNS			
CL-15-CK		13/16	CL-9-TNS			
CL-16-CK	3/4-10	13/16	CL-10-TNS	CL-64-STC CL-66-STC CL-68-STC	CL-40-BS CL-50-BS CL-60-BS	CL-6-CKH
CL-23-CK		22mm	CL-16-TNS			
CL-17-CK		7/8	CL-11-TNS			
CL-18-CK		1	CL-12-TNS			
CL-19-CK		1-1/16	CL-13-TNS			

## STANDARD BLOCKS (METRIC)

CLM-1-CK	M10	12mm	CLM-1-TNS	CL-32-STC	CL-10-BS	CL-1-CKMH
CLM-2-CK		1/2	CLM-2-TNS	CL-34-STC	CL-20-BS	
CLM-3-CK		9/16 or 14mm	CLM-3-TNS	CL-36-STC	CL-30-BS	
CLM-4-CK		9/16 or 14mm	CLM-4-TNS	CL-42-STC	CL-10-BS	
CLM-5-CK	M12	5/8 or 16mm	CLM-5-TNS	CL-44-STC	CL-20-BS	CL-2-CKMH
CLM-6-CK		11/16 or 18mm	CLM-6-TNS	CL-46-STC	CL-30-BS	
CLM-7-CK	M16	11/16 or 18mm	CLM-7-TNS	CL-52-STC	CL-10-BS	CL-3-CKMH
CLM-8-CK		20mm	CLM-8-TNS	CL-54-STC	CL-20-BS	
CLM-9-CK		13/16	CLM-9-TNS	CL-56-STC	CL-30-BS	

## HIGH-RISE BLOCKS (METRIC)

CLM-10-CK	M12	9/16 or 14mm	CLM-4-TNS	CL-42-STC	CL-40-BS	CL-4-CKH
CLM-11-CK		5/8 or 16mm	CLM-5-TNS	CL-44-STC	CL-50-BS	
CLM-12-CK		11/16 or 18mm	CLM-6-TNS	CL-46-STC	CL-60-BS	
CLM-13-CK		11/16 or 18mm	CLM-7-TNS	CL-52-STC	CL-40-BS	
CLM-14-CK	M16	20mm	CLM-8-TNS	CL-54-STC	CL-50-BS	CL-5-CKH
CLM-15-CK		13/16	CLM-9-TNS	CL-56-STC	CL-60-BS	
CLM-17-CK	M20	22mm	CLM-11-TNS	CL-64-STC CL-66-STC CL-68-STC	CL-40-BS CL-50-BS CL-60-BS	CL-6-CKH

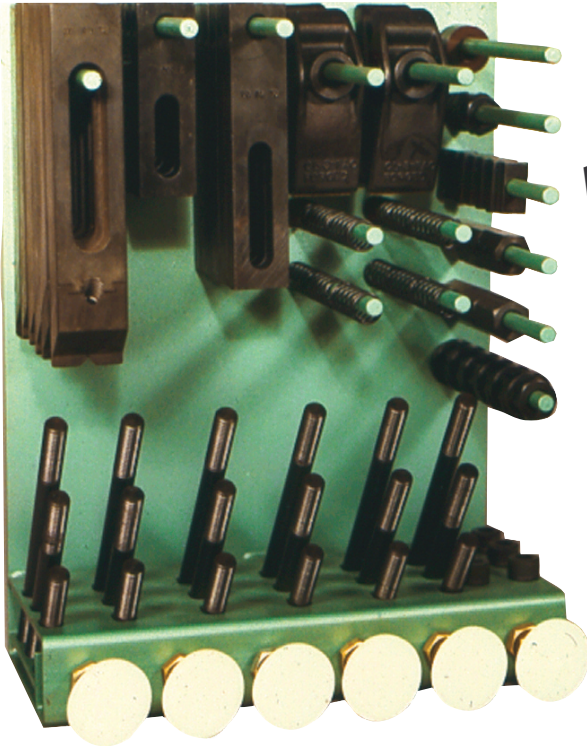


## MANUFACTURING CO.

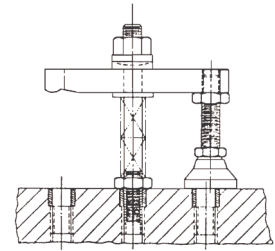
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# DELUXE CLAMPING KITS

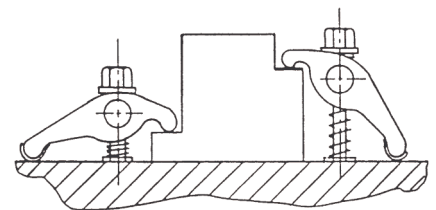
SEE CATALOG PAGE OF EACH COMPONENT FOR MATERIAL SPECIFICATIONS  
 HOLDER: STEEL, ENAMEL PAINT



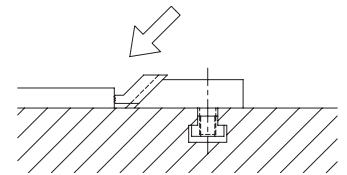
**ADDITIONAL  
 SIZES NOW  
 AVAILABLE!**



**Clamp Strap Assemblies**



**Forged Adjustable Clamps**



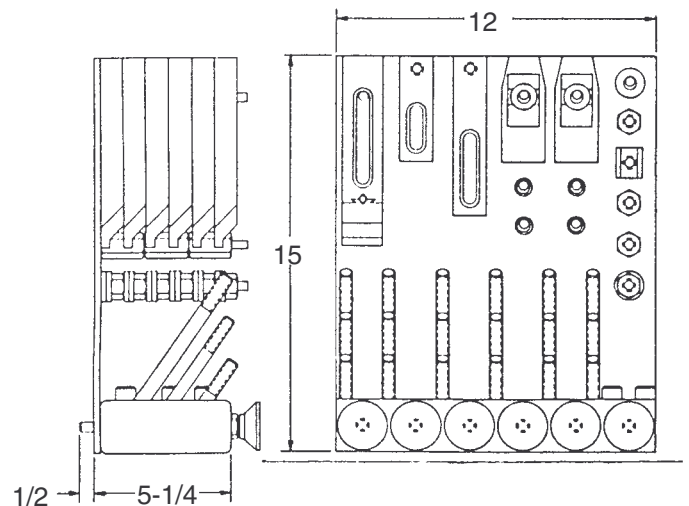
**Serrated Edge Clamps**

New, improved Clamping Kit with three different types of clamps. Safer and less cumbersome than sets using Step Blocks and Clamps. This 94-piece set includes:

- (12) Tapped-Heel Clamp Straps, short and long
- (4) Forged Adjustable Clamps
- (6) Serrated Edge Clamps
- (6) Stud Leveling Feet
- (6) T Nuts
- (6) Short Clamping Studs
- (6) Medium Clamping Studs
- (6) Long Clamping Studs
- (6) Spherical Nuts & Washers
- (6) Coupling Nuts
- (6) Jam Nuts
- (6) Flat Washers
- (12) Clamp Springs
- (6) Socket-Head Cap Screws
- (1) Sturdy Steel Rack

Available to fit table-slot sizes from 7/16" to 13/16" (12mm to 20mm in metric), in thread sizes from 3/8"-16 to 5/8"-11 (M10 to M16 in metric).

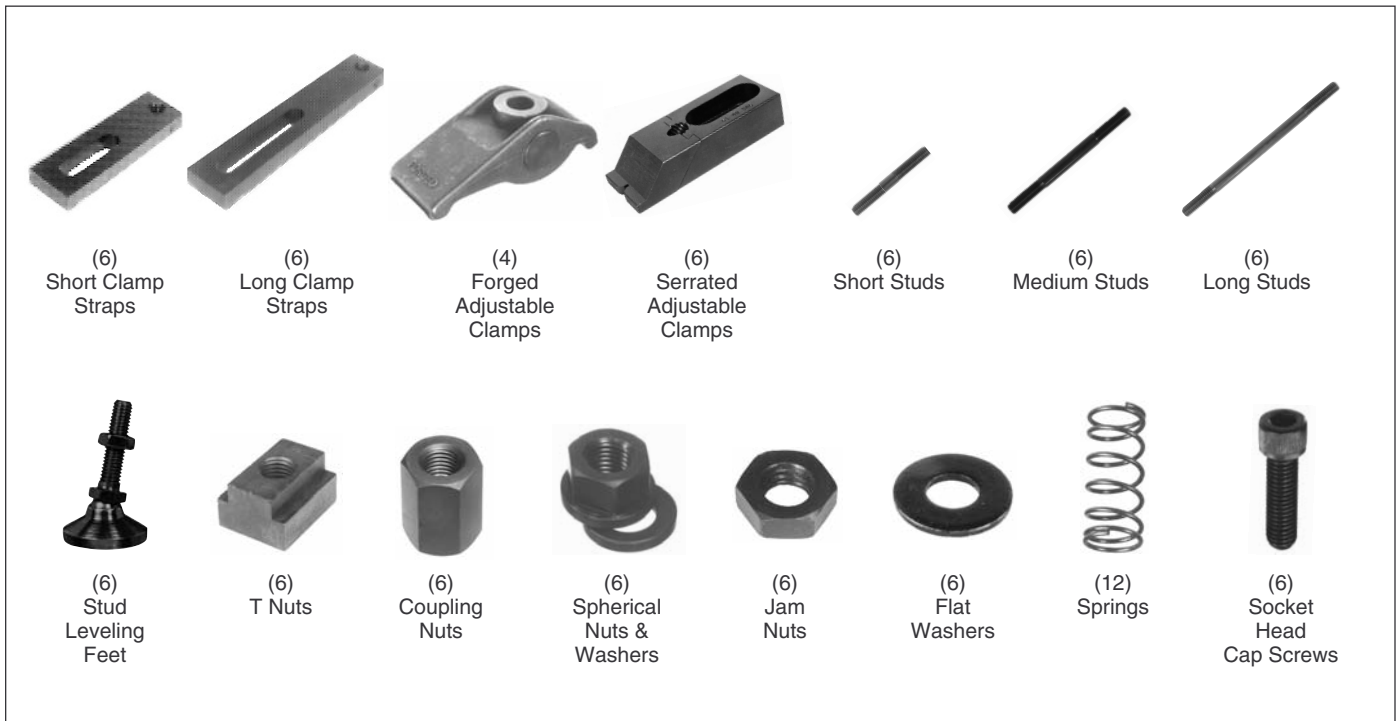
The Stud Leveling Feet in these kits serve as the rear supports for Tapped-Heel Clamp Straps. These leveling feet are optionally available with Delrin® pads to avoid marring the table when less clamping force is required, such as when used on coordinate measuring machines.



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: [www.carrlane.com](http://www.carrlane.com)

# DELUXE CLAMPING KITS



## USA

PART NO. STEEL PADS	PART NO. DELRIN® PADS	TABLE SLOT SIZE	STUD SIZE	CLAMP STRAPS (6 EACH)	FORGED ADJ. CLPS. (4)	SERR. ADJ. CLPS. (4)	STUDS (6 EACH)	LEVELING FEET (6)	T NUTS (6)	NUTS & WASHERS (6 EACH)	SPRINGS (12)	SOCKET-HEAD CAP SCREWS (6)
CL-1-DCK	CL-1-DCKN	7/16	3/8-16	CL-63-CS CL-67-CS	CL-6-FAC	CL-30-SAC	CL-3/8-16x3.00-STUD CL-3/8-16x5.00-STUD CL-3/8-16x7.00-STUD	CL-6-SLF-BO or CL-6-SLFN	CL-00-TN CL-12-TN CL-0-TN CL-1-TN CL-16-TN	CL-1-CN CL-2-SNW CL-6-JN CL-1-FW	CL-9-SPG	CL-3/8-16x1.25-SHCS
CL-20-DCK	CL-20-DCKN	12mm										
CL-2-DCK	CL-2-DCKN	1/2										
CL-3-DCK	CL-3-DCKN	9/16 or 14mm										
CL-24-DCK	CL-24-DCKN	5/8 or 16mm	1/2-13	CL-71-CS CL-75-CS	CL-8-FAC	CL-60-SAC	CL-1/2-13x4.00-STUD CL-1/2-13x6.00-STUD CL-1/2-13x8.00-STUD	CL-8-SLF-BO or CL-8-SLFN	CL-9-TN CL-2-TN CL-3-TN CL-17-TN	CL-2-CN CL-3-SNW CL-8-JN CL-2-FW	CL-9-SPG	CL-1/2-13x1.50-SHCS
CL-4-DCK	CL-4-DCKN	9/16 or 14mm										
CL-5-DCK	CL-5-DCKN	5/8 or 16mm										
CL-6-DCK	CL-6-DCKN	11/16 or 18mm										
CL-7-DCK	CL-7-DCKN	3/4	5/8-11	CL-81-CS CL-85-CS	CL-10-FAC	CL-90-SAC	CL-5/8-11x4.00-STUD CL-5/8-11x6.00-STUD CL-5/8-11x8.00-STUD	CL-10-SLF-BO or CL-10-SLFN	CL-10-TN CL-4-TN CL-14-TN CL-5-TN	CL-4-SNW CL-10-JN CL-3-FW	CL-9-SPG	CL-5/8-11x1.50-SHCS
CL-27-DCK	CL-27-DCKN	11/16 or 18mm										
CL-8-DCK	CL-8-DCKN	3/4										
CL-21-DCK	CL-21-DCKN	20mm										
CL-9-DCK	CL-9-DCKN	13/16										

## METRIC

CLM-1-DCK	CLM-1-DCKN	12mm	M10	CLM-63-CS CLM-67-CS	CL-6-FAC	CL-30-SAC	CLM-10x80-STUD CLM-10x125-STUD CLM-10x175-STUD	CLM-10-SLF-BO or CLM-10-SLFN	CLM-00-TN CLM-0-TN CLM-1-TN	CLM-10-CN CLM-10-SNW CLM-10-JN CL-1-FW	CL-7-SPG	CLM-10x30-SHCS
CLM-2-DCK	CLM-2-DCKN	1/2										
CLM-3-DCK	CLM-3-DCKN	9/16 or 14mm										
CLM-4-DCK	CLM-4-DCKN	9/16 or 14mm	M12	CLM-71-CS CLM-75-CS	CL-8-FAC	CL-60-SAC	CLM-12x95-STUD CLM-12x150-STUD CLM-12x200-STUD	CLM-12-SLF-BO or CLM-12-SLFN	CLM-9-TN CLM-2-TN CLM-3-TN	CLM-12-CN CLM-12-SNW CLM-12-JN CL-2-FW	CL-9-SPG	CLM-12x40-SHCS
CLM-5-DCK	CLM-5-DCKN	5/8 or 16mm										
CLM-6-DCK	CLM-6-DCKN	11/16 or 18mm										
CLM-7-DCK	CLM-7-DCKN	11/16 or 18mm	M16	CLM-81-CS CLM-85-CS	CL-10-FAC	CL-90-SAC	CLM-16x110-STUD CLM-16x150-STUD CLM-16x200-STUD	CLM-16-SLF-BO or CLM-16-SLFN	CLM-10-TN CLM-4-TN CLM-5-TN	CLM-16-CN CLM-16-SNW CLM-16-JN CL-3-FW	CL-11-SPG	CLM-16x40-SHCS
CLM-8-DCK	CLM-8-DCKN	20mm										
CLM-9-DCK	CLM-9-DCKN	13/16										



## MANUFACTURING CO.

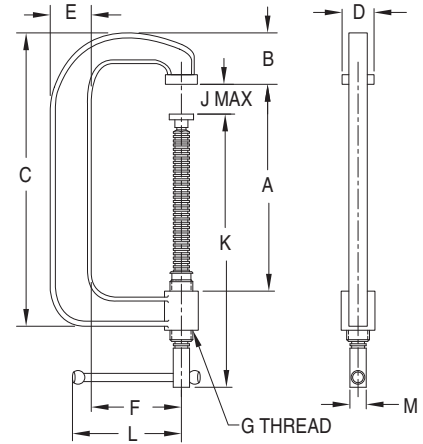
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# BAR-LOK™ QUICK-ACTING C CLAMPS

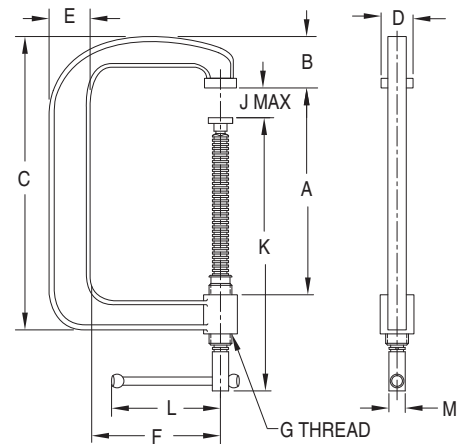
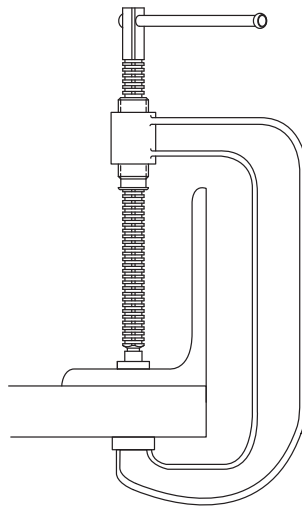
CLAMPING BAR AND COLLAR: 12L14 STEEL, CARBURIZED-HARDENED, COPPER COATED.  
SLIDING HANDLE AND SWIVEL FOOT: 12L14 STEEL, COPPER COATED. FRAME: NODULAR IRON.



This heavy-duty C clamp features our patented Bar-Lok quick-acting screw mechanism (see page 67). This unique grooved-bar design works smoothly and positively — just slide the bar forward to contact the workpiece, then turn clockwise to apply force. To unclamp, turn counterclockwise and slide the bar back. The long sliding handle provides excellent leverage. All moving components are copper-coated to protect from spatter in welding applications. As strong as a standard C clamp, but much faster. Available in four frame sizes. Standard-throat version provides up to 2400 lbs clamping force. Deep-throat version provides up to 1500 lbs clamping force. Optional rubber pads (for the swivel foot and frame) are available separately, to avoid marring sensitive surfaces. Patent no. 6,726,193.



Standard Throat



Deep Throat

Bar-Lok C Clamps are ideal for applications that require quickly extending and retracting the clamping screw its full length.

**NEW  
MINI  
SIZE!**

### STANDARD THROAT

PART NO.	OPENING	A	B	C	D	E	F	G	J	K	L	M	OPTIONAL SET OF RUBBER PADS
CL-1-BLC	1-1/4"	1-9/16	5/8	2-7/8	1/2	3/4	1-3/16	7/16-20	1-1/4	3-1/16	1-5/8	1/4	—
CL-4-BLC	4"	4.80	2.17	8.27	1.26	1.46	2.52	7/8-9	4	8.5	4.25	.50	CL-1-BLCP
CL-6-BLC	6"	6.75	2.54	10.71		1.65	2.76		6	10.5			
CL-8-BLC	8"	8.86	2.72	13.31		1.81	4.02		8	12.5			

### DEEP THROAT

CL-40-BLC	4"	4.80	2.17	8.27	1.26	1.46	4.49	7/8-9	4	8.5	4.25	.50	CL-1-BLCP
CL-60-BLC	6"	6.75	2.54	10.71		1.65	4.72		6	10.5			
CL-80-BLC	8"	8.86	2.72	13.31		1.81	5.98		8	12.5			



**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

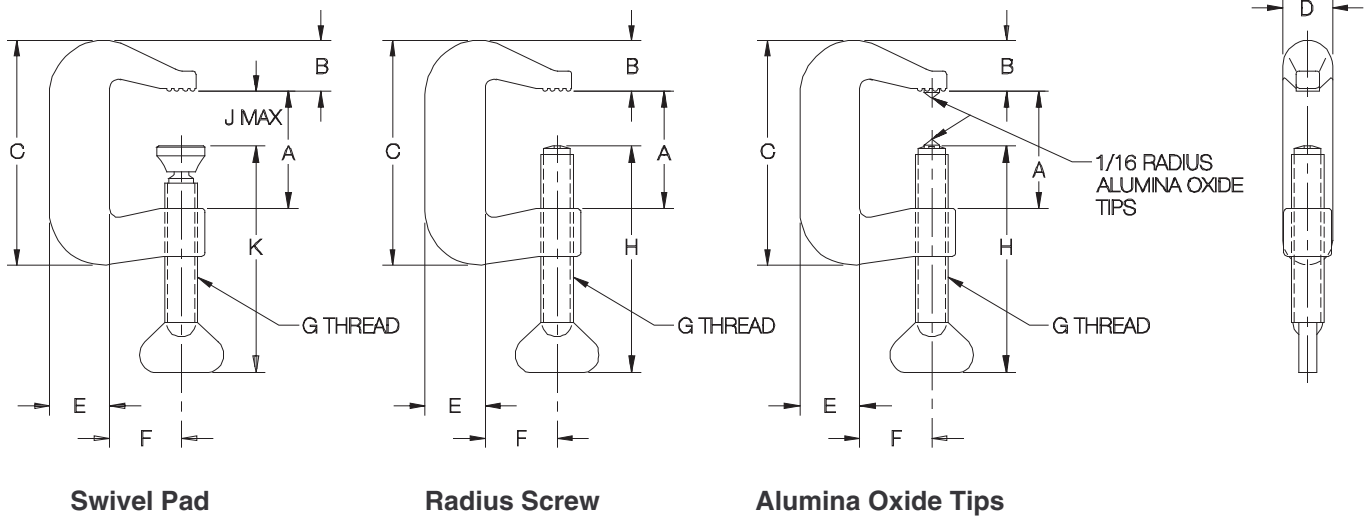
# DURACLAMP PLASTIC C CLAMPS

FIBERGLASS-REINFORCED THERMOPLASTIC



High-strength fiberglass-reinforced plastic C clamps, ideal for finishing operations and other corrosive environments. Also ideal wherever a lightweight C clamp is required. Chemically inert and electrically non-conductive. Highly resistant to virtually all acid and alkali solutions, and boiling water (212° F maximum recommended continuous operating temperature, 290° F for intermittent operation). No stripping required after use. Large, comfortable thumbscrew for easy hand tightening. Available in four sizes.

Also available with alumina oxide (Al<sub>2</sub>O<sub>3</sub>) tips. Well suited for two-step anodizing processes. Dual tips allow rack mounting two parts back-to-back during finishing. These super-hard tips (1/16" radius) reduce contact area to a small point to minimize rack marks, yet still hold parts securely.



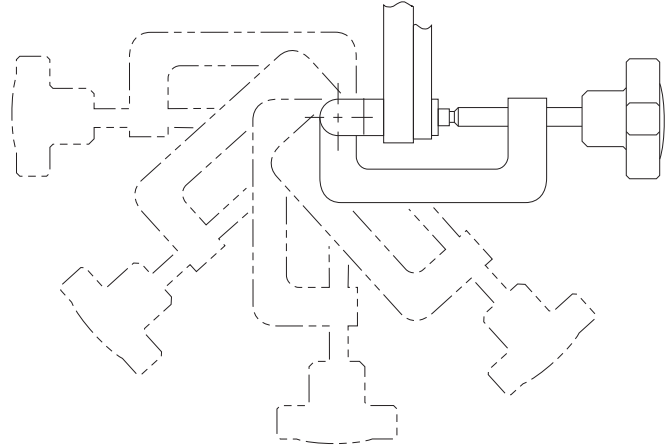
PART NO. WITH SWIVEL PAD	PART NO. WITH RADIUS SCREW	PART NO. WITH ALUMINA OXIDE TIPS	A	B	C	D	E	F	G	H	J	K	MAXIMUM TORQUE (IN-LBS)	WEIGHT (LBS)
CL-318-DCS	CL-318-DC	CL-318-DC2T	1-3/16	3/4	2-3/4	13/16	29/32	25/32	9/16-12	2-13/16	3/4	3	125	.13
CL-476-DCS	CL-476-DC	CL-476-DC2T	1-13/16	1-1/8	3-15/16	1	1	1-3/16	5/8-12	3-13/16	1-3/8	4	160	.24
CL-635-DCS	CL-635-DC	—	2-3/8	1-1/4	4-27/32	1-1/16	1-1/4	1-1/2	11/16-11	4-3/4	1-7/8	4-3/4	250	.35
CL-1016-DCS	CL-1016-DC	—	3-7/8	1-3/8	6-13/16	1-1/4	1-1/2	1-3/4	13/16-10	6-1/4	3-3/8	6-1/4	350	.71



**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

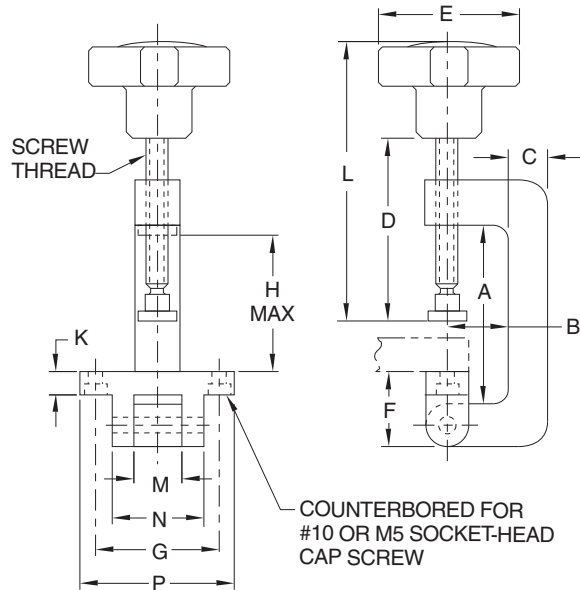
# SWING C CLAMPS

FRAME & MOUNTING PAD: MILD STEEL, ZINC PLATED CLEAR CHROMATE  
 KNOB: 319 ALUMINUM ALLOY  
 SCREW: 12L14 STEEL, NICKEL PLATED  
 FOOT: 12L14 STEEL, ZINC PLATED YELLOW CHROMATE



These unique C clamps have a hinged pad for fastening permanently to a fixture, allowing them to swing clear for workpiece loading. The hinged mounting pad bolts to the fixture with two socket-head cap screws. Four-prong knob provides a firm grip for applications requiring quick tightening and high torque. Clamping screw is cast securely in the knob and has a removable swivel foot. Available in four sizes.

Swing C Clamps use our patented left-hand-thread swivel-foot system. The ball end of the body screws into the foot for easy installation and removal. Once the ball threads pass beyond the foot threads, the foot can rotate and pivot freely (20° total angle). Foot threads are left-hand to positively prevent accidental back out during use. For other foot types, including Delrin® feet, see Feet for Swivel Screws (order separately).



PART NO.	SCREW THREAD	A	B	C	D	E	F	G	H	K	L	M	N	P
CL-520-SCC	5/16-18	2	3/4	1/2	2-1/4	1-3/4	7/8	1-1/2	1-15/32	5/16	3-1/4	1/2	1	2
CL-525-SCC		2-1/2							1-31/32					
CL-625-SCC	3/8-16	2-1/2	1	5/8	2-13/16	2-1/8	1	1-3/4	1-15/16	5/16	4-1/16	5/8	1-1/4	2-1/4
CL-635-SCC		3-1/2			3-9/16				2-15/16		4-13/16			

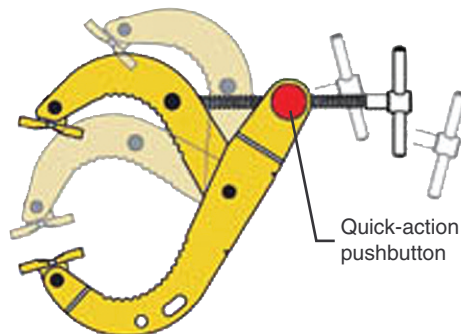
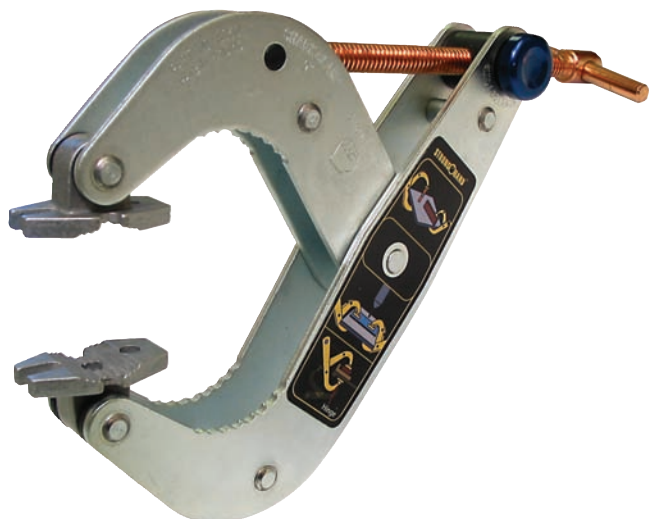


**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# SHARK CLAMPS

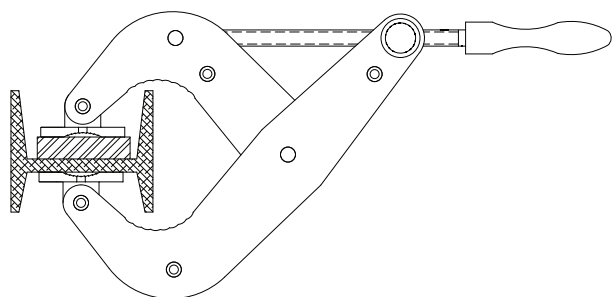
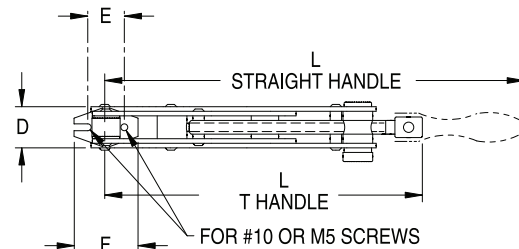
BODY: STEEL, ZINC PLATED CLEAR CHROMATE  
CLAMPING SCREW: STEEL, COPPER PLATED

**NEW!**

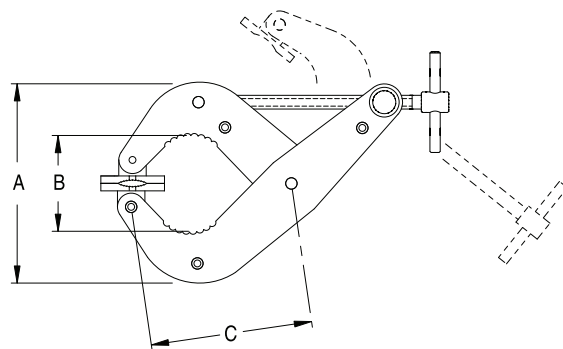


Heavy-duty quick-acting jaw clamp. Simply press the side pushbutton to allow sliding the handle freely in and out. The clamping screw is copper plated to resist spatter in welding applications. The two pivoting contact pads have mounting holes to allow attaching custom clamping pads or for stationary mounting. Optional no-mar rubber pads are available separately. Choose either a T handle (for maximum tightening torque) or a screwdriver-type straight handle (for more comfortable handling). Available in two sizes. Patent no. 6,893,012.

To clamp, simply press the quick-action pushbutton to slide the handle forward, moving the jaws into clamping position, then release the button and turn the handle to apply clamping force. To unclamp, turn the handle to release clamping force, then press the pushbutton to slide the handle back.



Wide throat allows clamping over flanges



PART NO.	MAX OPENING	HANDLE TYPE	A	B	C	D	E	F	L	MAXIMUM CLAMPING FORCE (LBS)	NO-MAR PADS (SET OF 4)
CL-500-SHRK	5	T	5.50	2.64	4.40	1.12	1.00	1.75	8.5	1000	CL-1-SHRK-P-SETOF4
CL-501-SHRK		STRAIGHT							12	200	
CL-650-SHRK	6-1/2	T	6.00	3.15	5.30	1.12	1.00	1.75	10.5	1000	
CL-651-SHRK		STRAIGHT							14	200	

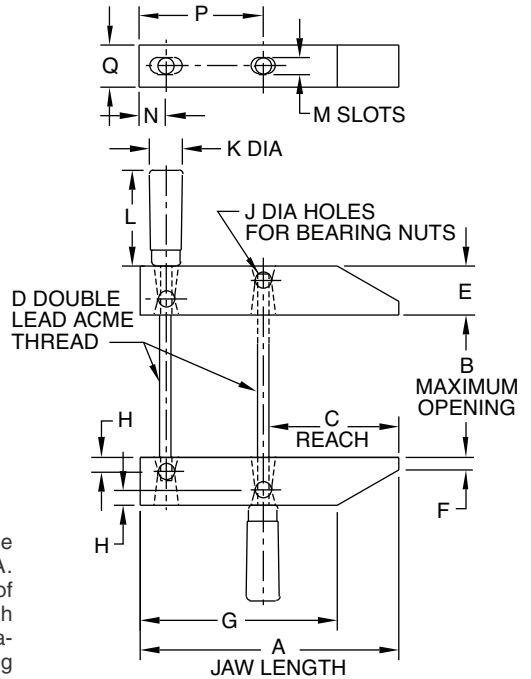
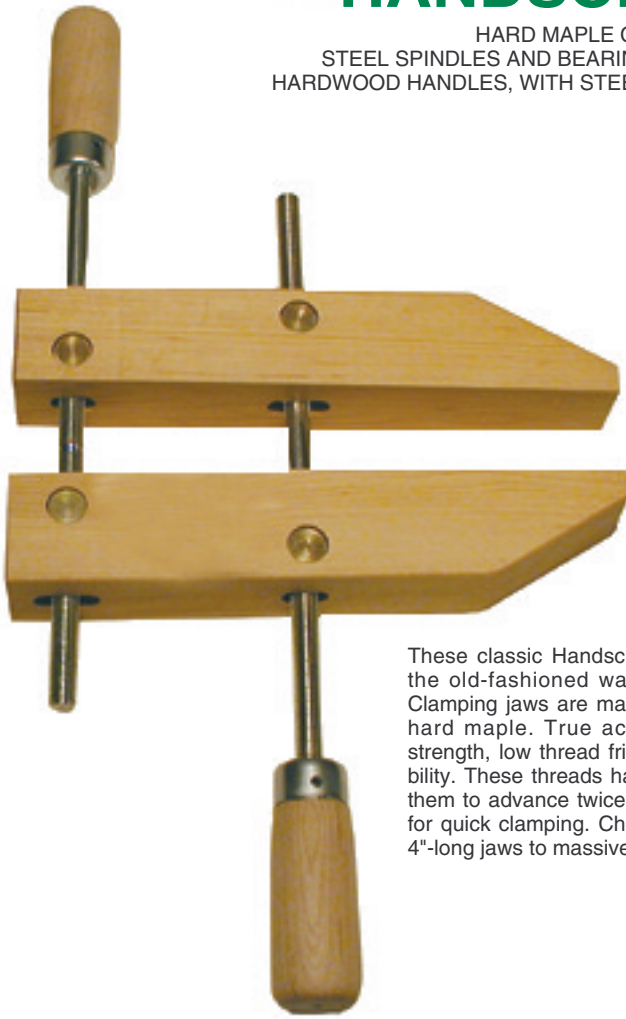


**MANUFACTURING CO.**

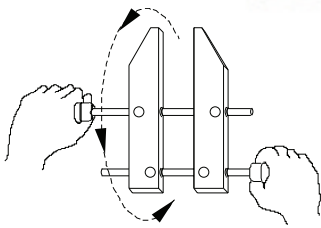
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# HANDSCREW CLAMPS

HARD MAPLE CLAMPING JAWS, OIL FINISH  
 STEEL SPINDLES AND BEARING NUTS, ZINC PLATED CLEAR CHROMATE  
 HARDWOOD HANDLES, WITH STEEL FERRULES, ZINC PLATED CLEAR CHROMATE

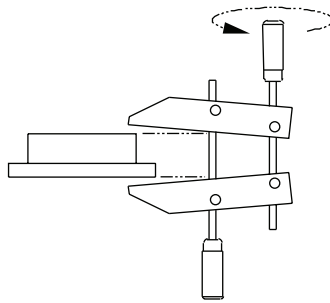


These classic Handscrew Clamps are still made the old-fashioned way, still made in the USA. Clamping jaws are made from the finest grade of hard maple. True acme threads provide high strength, low thread friction, and excellent wearability. These threads have a double lead, allowing them to advance twice as fast as regular threads, for quick clamping. Choice of five sizes, from tiny 4"-long jaws to massive 12"-long jaws.



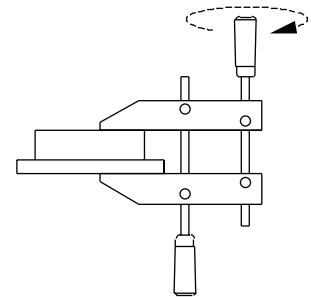
### Step 1

Handscrew Clamps adjust very quickly. Starting with the jaws parallel, grasp the two handles and rotate the clamp (much like pedalling a bicycle) until the jaws are open just barely wide enough for the thickness to be clamped.



### Step 2

Leaving the center spindle stationary, turn the rear spindle counterclockwise to open the clamping jaws slightly wider in front. Slide clamp over the surface to be gripped.



### Step 3

Again leaving the center spindle stationary, turn the rear spindle clockwise to tighten. The clamping jaws should now be parallel.

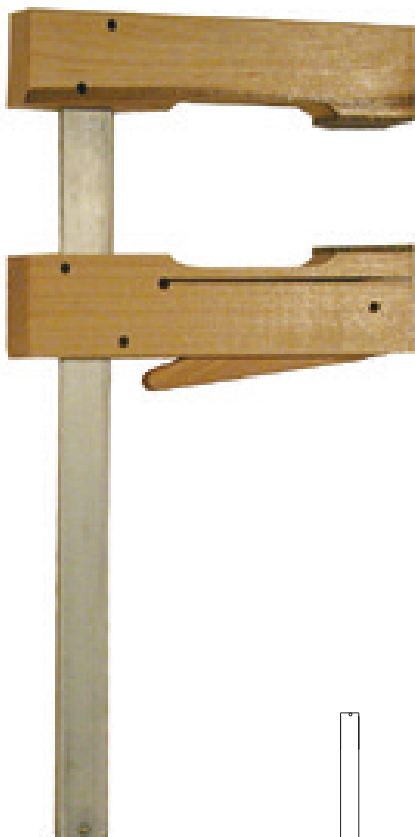
PART NO. SINGLE CLAMP	PART NO. SET OF 6 CLAMPS	A	B	C	D ACME THREAD	E	F	G	H	J DIA	K DIA	L	M	N	P	Q
CL-4-HSC	CL-4-HSC-SETOF6	4	2-1/4	2	1/4	1-1/16	1/2	3-1/8	3/8	25/64	7/8	2-1/2	9/32	9/16	1-7/8	1-1/16
CL-6-HSC	CL-6-HSC-SETOF6	6	3	3	5/16	1-3/8	1/2	4-5/16	7/16	33/64	1	3	11/32	3/4	2-27/32	1-1/4
CL-8-HSC	CL-8-HSC-SETOF6	8	5	4	7/16	1-3/4	1/2	5-7/8	9/16	41/64	1-1/4	3-11/16	15/32	1	3-23/32	1-1/2
CL-10-HSC	CL-10-HSC-SETOF6	10	7	5		1-7/8	9/16	7-3/4						1-1/4	4-23/32	1-5/8
CL-12-HSC	CL-12-HSC-SETOF6	12	9-1/4	6	2-1/8	5/8	9	5/8						1-7/16	5-25/32	1-7/8



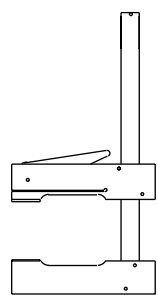
**MANUFACTURING CO.**  
 4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# CAM BAR CLAMPS

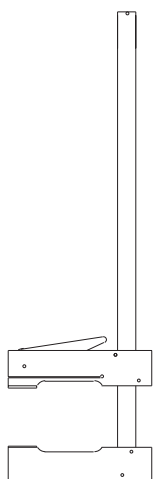
HARD MAPLE CLAMPING JAWS AND CAM, LACQUER FINISH  
 CORK FACE ON CLAMPING JAWS  
 SPRING STEEL BAR, ZINC PLATED CLEAR CHROMATE



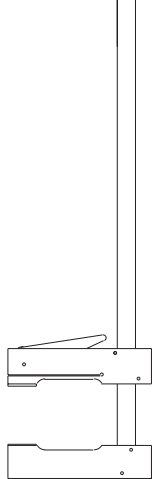
These classic bar clamps slide quickly into position, then apply clamping force using a cam. Made in the USA with high-quality materials and workmanship. Clamping jaws are made from the finest grade of hard maple. The rugged spring steel bar has serrations on both sides, to engage steel roll pins in the sliding jaw. Clever bar design keeps the sliding jaw in position by its own weight, so that the clamp can be drawn up and tightened with one hand. Cork padding on the clamping jaws avoids damaging your work and helps prevent the clamp from slipping. Available with 4-1/2" and 6" jaw reach, with clamp openings up to 24".



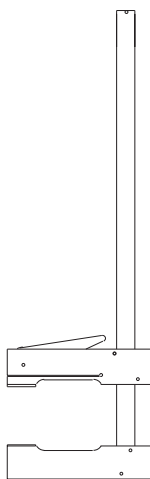
6" jaw  
 (4-1/2" reach)  
 8" opening



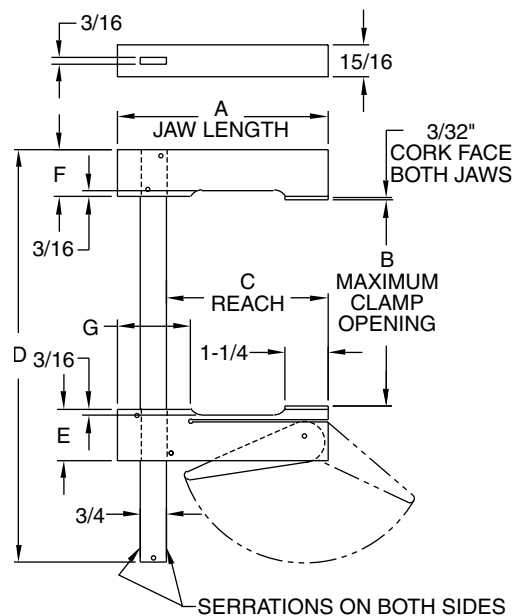
6" jaw  
 (4-1/2" reach)  
 16" opening



6" jaw  
 (4-1/2" reach)  
 24" opening



7-1/2" jaw  
 (6" reach)  
 8" opening



PART NO. SINGLE CLAMP	PART NO. SET OF 6 CLAMPS	A	B	C REACH	D	E	F	G	MAXIMUM CAM RISE
CL-48-CBC	CL-48-CBC-SETOF6		8		12				
CL-416-CBC	CL-416-CBC-SETOF6	6	16	4-1/2	20	1-1/2	1-3/8	2-1/4	1/4
CL-424-CBC	CL-424-CBC-SETOF6		24		28				
CL-68-CBC	CL-68-CBC-SETOF6	7-1/2	8	6	12	1-1/2	1-3/8		

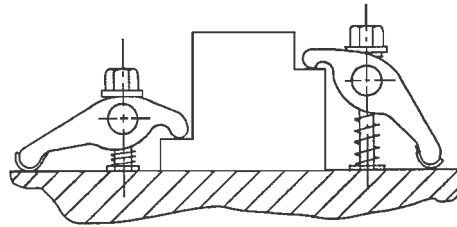


## MANUFACTURING CO.

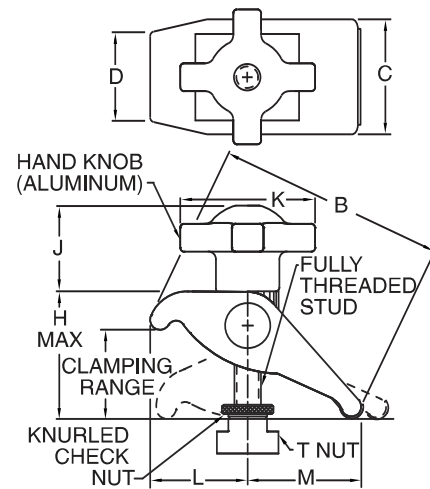
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# FORGED ADJUSTABLE DRILL-PRESS CLAMPS

**NEW!**



Handy hold-down clamp assembly that includes a Forged Adjustable Clamp, ideal for clamping on T-slotted drill presses and tapped drill-jig plates. This rugged forged steel pivot clamp provides instant height adjustment without blocks or shims. Removable brass heel protects machine table. Available with stud sizes from 5/16-18 to 1/2-13 (M8 to M12 in metric), fitting T-slots from 3/8 to 3/4 (10mm to 18mm in metric). For additional sizes of Forged Adjustable Clamps, see page 179.



## GENERAL DIMENSIONS

STUD SIZE	CLAMPING RANGE	B	C	D	H	J	K	L		M	
								MIN	MAX	MIN	MAX
5/16-18 or M8	0 to 1-3/4	3-1/4	1-1/4	7/8	2-1/8	1-3/8	2-1/8	1-1/16	1-1/4	1-3/4	2
3/8-16 or M10								1-3/8	1-9/16	2-1/8	2-7/16
1/2-13 or M12	0 to 2/16	4	1-5/8	1-1/8	2-5/8	1-5/8	2-1/2	1-3/8	1-9/16	2-1/8	2-7/16

## ASSEMBLY COMPONENTS (USA)

PART NO.	STUD SIZE	TABLE-SLOT SIZE	T NUT	FORGED ADJUSTABLE CLAMP	FULLY THREADED STUD	KNURLED CHECK NUT	HAND KNOB
CL-5-FACA-HKA	5/16-18	TAPPED	NONE	CL-6-FAC	CL-5/16-18x3.00-FTS	CL-51618-TSJNI	CL-2-HK-4A
CL-5-FACA-HKA-19		3/8 or 10mm	CL-19-TN				
CL-5-FACA-HKA-20		7/16	CL-20-TN				
CL-5-FACA-HKA-21		1/2	CL-21-TN				
CL-6-FACA-HKA	3/8-16	TAPPED	NONE	CL-6-FAC	CL-3/8-16x3.00-FTS	CL-3816-TSJNI	CL-3-HK-4A
CL-6-FACA-HKA-00		7/16	CL-00-TN				
CL-6-FACA-HKA-12		12mm	CL-12-TN				
CL-6-FACA-HKA-0		1/2	CL-0-TN				
CL-6-FACA-HKA-1		9/16 or 14mm	CL-1-TN				
CL-6-FACA-HKA-16		5/8 or 16mm	CL-16-TN				
CL-8-FACA-HKA	1/2-13	TAPPED	NONE	CL-8-FAC	CL-1/2-13x4.00-FTS	CL-1213-TSJNI	CL-9-HK-9A
CL-8-FACA-HKA-9		9/16 or 14mm	CL-9-TN				
CL-8-FACA-HKA-2		5/8 or 16mm	CL-2-TN				
CL-8-FACA-HKA-3		11/16 or 18mm	CL-3-TN				
CL-8-FACA-HKA-17		3/4	CL-17-TN				

## ASSEMBLY COMPONENTS (METRIC)

CLM-5-FACA-HKA	M8	TAPPED	NONE	CL-6-FAC	CLM-8x80-FTS	CLM-8-TSJNI	CLM-2-HK-4A
CLM-5-FACA-HKA-19		3/8 or 10mm	CLM-19-TN				
CLM-6-FACA-HKA	M10	TAPPED	NONE	CL-6-FAC	CLM-10x80-FTS	CLM-10-TSJNI	CLM-3-HK-4A
CLM-6-FACA-HKA-00		12mm	CLM-00-TN				
CLM-6-FACA-HKA-0		1/2	CLM-0-TN				
CLM-6-FACA-HKA-1		9/16 or 14mm	CLM-1-TN				
CLM-8-FACA-HKA	M12	TAPPED	NONE	CL-8-FAC	CLM-12x110-FTS	CLM-12-TSJNI	CLM-9-HK-9A
CLM-8-FACA-HKA-9		9/16 or 14mm	CLM-9-TN				
CLM-8-FACA-HKA-2		5/8 or 16mm	CLM-2-TN				
CLM-8-FACA-HKA-3		11/16 or 18mm	CLM-3-TN				



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: [www.carrlane.com](http://www.carrlane.com)

**NEW!**

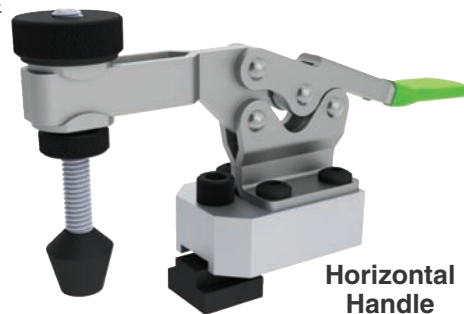
# DRILL-PRESS TOGGLE CLAMPS

DRILL-PRESS ADAPTOR: 6061 ALUMINUM  
OTHER COMPONENTS: SEE CATALOG PAGE  
FOR EACH SPECIFIC ITEM

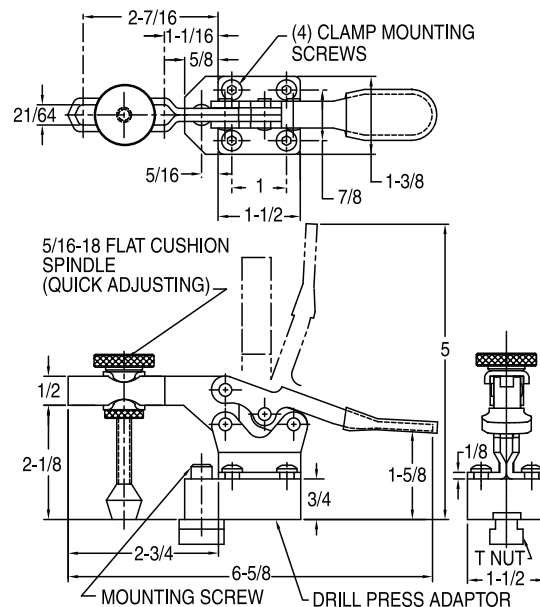
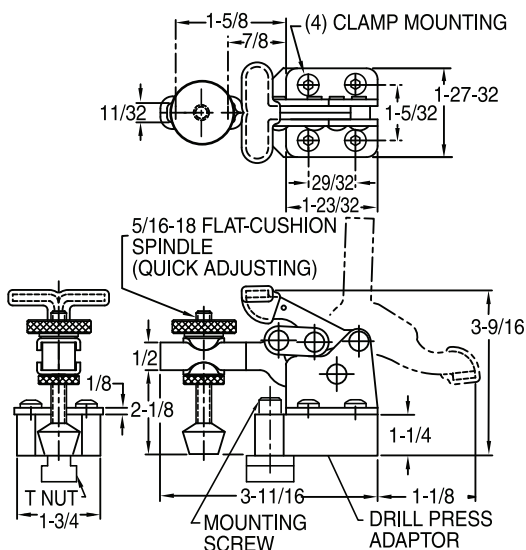


**Vertical T Handle**

These hold-down toggle clamps are ideal for clamping on drill presses, with an adaptor base for slotted tables and a quick adjusting spindle. Choose either a compact, easy-opening vertical T handle, or a low-profile horizontal handle. Open arm provides adjustable spindle location. Supplied with two quick-adjusting flat-cushion spindles, one short and one long. Choose T nut size to fit table slots from 3/8 to 5/8" (10 to 16mm in metric).



**Horizontal Handle**



## VERTICAL T HANDLE (USA)

PART NO.	MOUNTING SCREW SIZE	TABLE-SLOT SIZE	T NUT	DRILL-PRESS ADAPTOR	MOUNTING SCREW	CLAMP MOUNTING SCREW(4)	QUICK-ADJUSTING SPINDLE	HOLDING CAPACITY (LBS)
CL-300-VTCD-5	5/16-18	TAPPED	NONE	CL-300-VTCA-6	CL-5/16-18x1.75-SHCS	CL-1/4-20x.50-SHCS	CL-516212-FCQA	350
CL-300-VTCD-5-19		3/8 or 10mm	CL-19-TN		CL-5/16-18x1.50-SHCS			
CL-300-VTCD-5-20		7/16	CL-20-TN					
CL-300-VTCD-5-21		1/2	CL-21-TN					
CL-300-VTCD-6	3/8-16	TAPPED	NONE		CL-3/8-16x1.75-SHCS			
CL-300-VTCD-6-00		7/16	CL-00-TN		CL-3/8-16x1.50-SHCS			
CL-300-VTCD-6-12		12mm	CL-12-TN					
CL-300-VTCD-6-0		1/2	CL-0-TN					
CL-300-VTCD-6-1		9/16 or 14mm	CL-1-TN					
CL-300-VTCD-6-16		5/8 or 16mm	CL-16-TN					

## HORIZONTAL HANDLE (USA)

CL-450-HTCD-5	5/16-18	TAPPED	NONE	CL-450-HTCA-6	CL-5/16-18x1.75-SHCS	CL-1/4-20x.50-SHCS	CL-516212-FCQA	500
CL-450-HTCD-5-19		3/8 or 10mm	CL-19-TN		CL-5/16-18x1.50-SHCS			
CL-450-HTCD-5-20		7/16	CL-20-TN					
CL-450-HTCD-5-21		1/2	CL-21-TN					
CL-450-HTCD-6	3/8-16	TAPPED	NONE		CL-3/8-16x1.75-SHCS			
CL-450-HTCD-6-00		7/16	CL-00-TN		CL-3/8-16x1.50-SHCS			
CL-450-HTCD-6-12		12mm	CL-12-TN					
CL-450-HTCD-6-0		1/2	CL-0-TN					
CL-450-HTCD-6-1		9/16 or 14mm	CL-1-TN					
CL-450-HTCD-6-16		5/8 or 16mm	CL-16-TN					



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# CARR LANE SIMPLEX HAMMERS

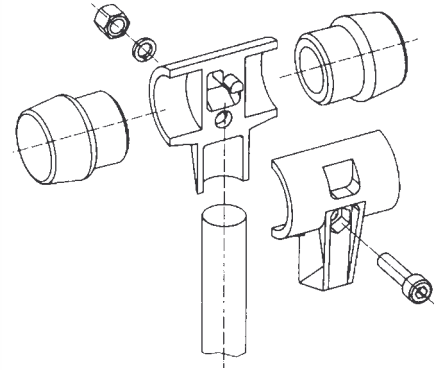
SEE COMPONENT PAGES FOR MATERIAL SPECIFICATIONS



**Wooden Handle**



**Fibreglass Handle**



Design your own custom hammers. These soft-face mallets can be customized for specific applications by selecting the proper hammer inserts. Choose the same type of insert for both sides, or build a multi-purpose hammer with a different type of insert for each face. The Simplex system uses a patented hammer housing with 3-point clamping that ensures a safe hammer assembly.

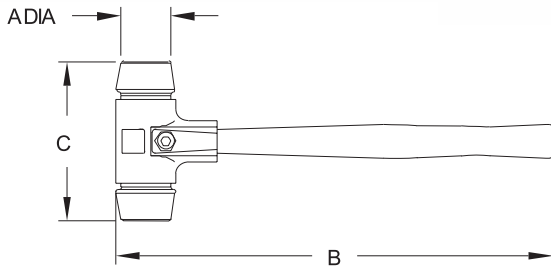
Available in four sizes, with a choice of eight different insert materials:

- Type A Blue Thermoplastic (Soft)
- Type B Gray Thermoplastic (Medium Soft)
- Type C Black Rubber (Medium Soft)
- Type D White Superplastic (Medium Hard)
- Type E Red Plastic (Hard)
- Type F White Nylon (Hard)
- Type G Soft Metal (Hard)
- Type H Copper (Hard) Fiberglass Handle Only

To order a 30mm hammer with a wooden handle, one black rubber insert (C) and one white nylon insert (F) specify:

CL-30-SPH-W-CF

Observe all appropriate safety precautions. Always wear safety goggles when using a hammer or any striking tool. Bystanders must also wear safety goggles. Never strike the hammer with or against another striking tool, hardened nail, or any other hard object that could cause damage. Chipping could occur, resulting in possible eye or other injury. Discard any chipped or damaged hammer. If assembling the hammer yourself, ensure that all parts are properly fitted into the handle housing and that the screw is tightened to the specified torque. Check hammer before each use. Using a hammer with loose or improperly fitted parts could result in serious injury. Use only genuine Simplex replacement components.



## SIMPLEX HAMMER ASSEMBLY — WOODEN HANDLE

PART NO.	A DIA	B	C	WEIGHT (LBS)
CL-30-SPH-W-xx	30mm (1.18)	11.81	3.54	0.7-0.9
CL-40-SPH-W-xx	40mm (1.57)	12.99	4.33	1.3-1.6
CL-50-SPH-W-xx	50mm (1.96)	13.78	5.32	2.4-3.0
CL-60-SPH-W-xx	60mm (2.36)	15.95	5.71	3.1-4.3

## SIMPLEX HAMMER ASSEMBLY — FIBERGLASS HANDLE

PART NO.	A DIA	B	C	WEIGHT (LBS)
CL-30-SPH-F-xx	30mm (1.18)	11.81	3.54	0.9-1.5
CL-40-SPH-F-xx	40mm (1.57)	12.99	4.33	1.8-3.1
CL-50-SPH-F-xx	50mm (1.96)	13.78	5.32	3.3-4.0
CL-60-SPH-F-xx	60mm (2.36)	15.95	5.71	3.5-5.5



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# CARR LANE SIMPLEX HAMMERS



**Type A Inserts**  
Blue Thermoplastic  
(Soft)

Blue thermoplastic inserts are soft and non-smudging. Applications include assembly operations, dent removal, woodworking, furniture assembly, window and door construction, joiner's work, and floor tiling. Hardness 60-70 Shore A.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-A	30mm (1.18)
CL-40-SPH-A	40mm (1.57)
CL-50-SPH-A	50mm (1.96)
CL-60-SPH-A	60mm (2.36)



**Type B Inserts**  
Grey Thermoplastic  
(Medium Soft)

Gray thermoplastic inserts are medium soft and non-smudging. Applications include assembly operations, car-body work, woodworking, furniture assembly, window and door construction, joiner's work, floor tiling, paving, and interior construction. Hardness 85-95 Shore A.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-B	30mm (1.18)
CL-40-SPH-B	40mm (1.57)
CL-50-SPH-B	50mm (1.96)
CL-60-SPH-B	60mm (2.36)



**Type C Inserts**  
Black Rubber  
(Medium Soft)

Black Rubber inserts are medium soft. Applications include assembly operations, dent removal, prefabricated housing construction, carpenter's work, paving, masonry work, concrete-form setup, scaffold construction, gardening, landscaping, and interior construction. Hardness 90-100 Shore A.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-C	30mm (1.18)
CL-40-SPH-C	40mm (1.57)
CL-50-SPH-C	50mm (1.96)
CL-60-SPH-C	60mm (2.36)



**Type D Inserts**  
White Superplastic  
(Medium Hard)

White superplastic inserts (UHMW polyethylene) are medium hard, durable, impact resistant, acid and lye resistant, grease and oil resistant, and ideal for striking sharp edges. Applications include assembly operations, automotive assembly and repair work, repair and maintenance work, car body work, sheet metal working, dent removal, assembly of sharp-edged workpieces, paving, masonry work, scaffold construction, gardening, and landscaping. Hardness 60-70 Shore D.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-D	30mm (1.18)
CL-40-SPH-D	40mm (1.57)
CL-50-SPH-D	50mm (1.96)
CL-60-SPH-D	60mm (2.36)



**Type E Inserts**  
Red Plastic  
(Hard)

Red plastic inserts (cellulose acetate) are hard, semi-transparent, and grease & oil resistant. Applications include automotive assembly and repair work, sheet metal working, dent removal, concrete-form setup, and scaffold construction. Hardness 65-75 Shore D.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-E	30mm (1.18)
CL-40-SPH-E	40mm (1.57)
CL-50-SPH-E	50mm (1.96)
CL-60-SPH-E	60mm (2.36)



**Type F Inserts**  
White Nylon  
(Hard)

White nylon inserts are hard, grease and oil resistant, highly elastic, and have superior strike effectiveness. Applications include assembly operations, metalworking, tooling, automotive assembly and repair work, joining of workpieces, sheet metal working, dent removal, mold construction, assembly of sharp-edged workpieces, and scaffold construction. Hardness 68-78 Shore D.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-F	30mm (1.18)
CL-40-SPH-F	40mm (1.57)
CL-50-SPH-F	50mm (1.96)
CL-60-SPH-F	60mm (2.36)



**Type G Inserts**  
Soft Metal  
(Hard)

Soft metal inserts are made of an aluminum-copper alloy which is hard and resistant to heat. Excellent alternative to old-fashioned lead hammers, to eliminate the risk of lead contamination. Applications include metalworking, tooling, automotive assembly and repair work, straightening work, car body work, and mold construction.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-G	30mm (1.18)
CL-40-SPH-G	40mm (1.57)
CL-50-SPH-G	50mm (1.96)
CL-60-SPH-G	60mm (2.36)



**Type H Inserts**  
Copper  
(Hard)

Copper inserts are hard and provide maximum impact. Plastic socket provides for secure mounting of the copper insert in the hammer. Applications include machine construction, automotive assembly and repair work, repair and maintenance work, and vehicle service stations.

PART NO.	HAMMER SIZE (FACE DIA)
CL-30-SPH-H	30mm (1.18)
CL-40-SPH-H	40mm (1.57)



**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: [www.carrlane.com](http://www.carrlane.com)

# CARR LANE SIMPLEX HAMMERS

HOUSINGS: CAST IRON, FURNISHED WITH SOCKET-HEAD CAP SCREW, SPRING WASHER, AND NUT  
HANDLES: EUROPEAN BLACK LOCUST WOOD, OR FIBERGLASS WITH ERGONOMIC RUBBER GRIP



## HOUSING & HANDLE — WOODEN HANDLE

HOUSING PART NO.	HANDLE PART NO.	HAMMER SIZE (FACE DIA)	TIGHTENING TORQUE (FT-LBS)	
			PLASTIC INSERTS	METAL INSERTS
CL-30-SPH-HWH	CL-30-SPH-WH	30mm (1.18)	11	15
CL-40-SPH-HWH	CL-40-SPH-WH	40mm (1.57)	18	30
CL-50-SPH-HWH	CL-50-SPH-WH	50mm (1.96)	22	37
CL-60-SPH-HWH	CL-60-SPH-WH	60mm (2.36)	30	48

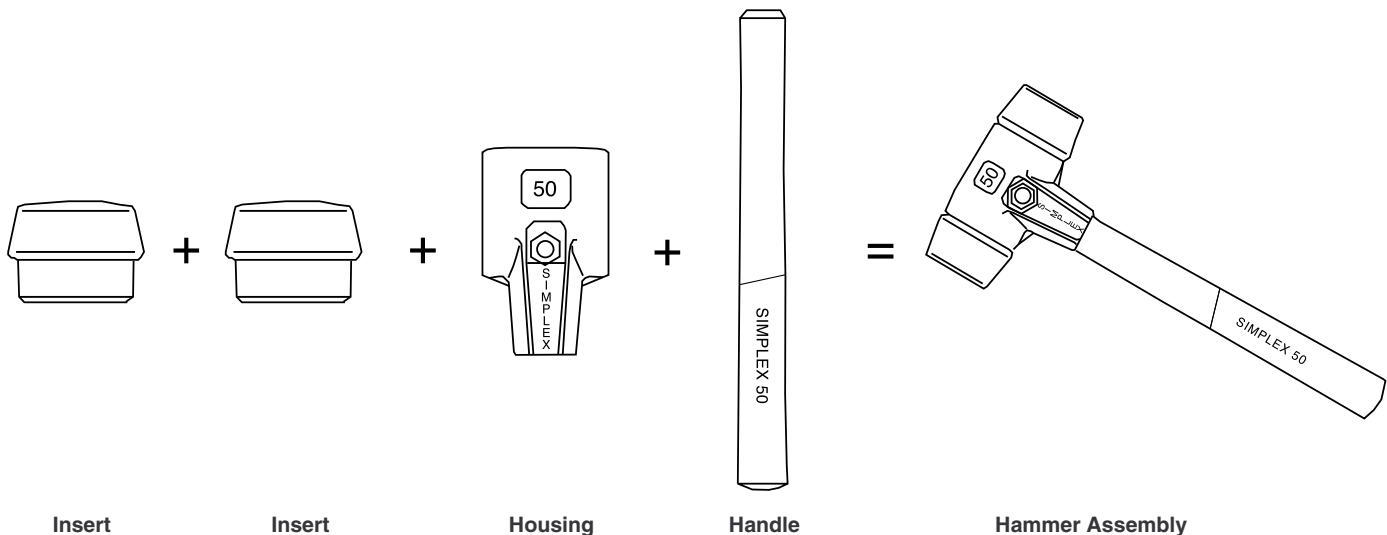
Rugged cast iron housing (red), furnished with a high-strength socket-head cap screw, spring washer, and nut. Premium quality hardwood handle. Use wooden handles only with red housings.



## HOUSING & HANDLE — FIBERGLASS HANDLE

HOUSING PART NO.	HANDLE PART NO.	HAMMER SIZE (FACE DIA)	TIGHTENING TORQUE (FT-LBS)	
			PLASTIC INSERTS	METAL INSERTS
CL-30-SPH-HFH	CL-30-SPH-FH	30mm (1.18)	18	30
CL-40-SPH-HFH	CL-40-SPH-FH	40mm (1.57)	22	44
CL-50-SPH-HFH	CL-50-SPH-FH	50mm (1.96)	30	52
CL-60-SPH-HFH	CL-60-SPH-FH	60mm (2.36)	44	59

Heavy-duty cast iron housing (black), reinforced for use with a fiberglass handle, furnished with a high-strength socket-head cap screw, spring washer, and nut. High-strength fiberglass handle with an ergonomic rubber grip. Use fiberglass handles only with black housings.



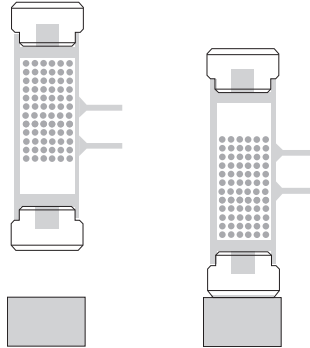
**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# NO-REBOUND HAMMERS

HOUSINGS: STEEL ASSEMBLY CONTAINING STEEL PELLETS. HANDLE: HICKORY WOOD.  
 INSERTS: NYLON, NATURAL WHITE COLOR, HARDNESS 68-78 SHORE D



**Supercraft  
Hammers  
(Wooden Handle)**



No-Rebound Hammers are filled with special steel pellets that transfer momentum to the impact point.

No-Rebound Hammers deliver full impact, about 50% greater than a standard hammer. The housing is filled with special steel pellets that transfer momentum to the impact point. Ideal for assembling machine parts without damage. Speeds up work while reducing fatigue. Allows better hammer control by absorbing the bounce. Hickory-wood handle. Available in five standard sizes, plus two sledgehammer sizes.

Supercraft No-Rebound Hammers have replaceable nylon inserts. These nylon inserts are hard, grease and oil resistant, highly elastic, and have superior strike effectiveness. Applications include assembly operations, metalworking, tooling, positioning of workpieces, automotive assembly and repair work, joining of workpieces, sheet metal working, dent removal, mold construction, assembly of sharp-edged workpieces, and scaffold construction.

Observe all appropriate safety precautions. Never allow the hammer's striking faces to wear down to the point where the hammer housing makes contact with the work surface, as irreparable damage could result. Always wear safety goggles when using a hammer or any striking tool. Bystanders must also wear safety goggles. Never strike the hammer with or against another striking tool, hardened nail, or any other hard object that could cause damage. Chipping could occur, resulting in possible eye or other injury. Discard any chipped or damaged hammer.

## SUPERCRAFT HAMMERS — WOODEN HANDLE

PART NO.	FACE DIA	WEIGHT (LBS)	OVERALL LENGTH	HEAD LENGTH	REPLACEMENT INSERT (2 REQUIRED)
CL-3366-020-NRH	20mm (.78)	0.5	11.77	4.12	CL-3508-020-NRHI
CL-3366-030-NRH	30mm (1.18)	0.7	12.95	4.32	CL-3508-030-NRHI
CL-3366-040-NRH	40mm (1.57)	1.6	14.13	4.51	CL-3508-040-NRHI
CL-3366-050-NRH	50mm (1.96)	2.2	14.52	4.71	CL-3508-050-NRHI
CL-3366-060-NRH	60mm (2.36)	3.8	14.52	5.69	CL-3508-060-NRHI



**Supercraft  
Sledgehammers  
(Wooden Handle)**

## SUPERCRAFT SLEDGEHAMMERS — WOODEN HANDLE

PART NO.	FACE DIA	WEIGHT (LBS)	OVERALL LENGTH	HEAD LENGTH	REPLACEMENT INSERT (2 REQUIRED)
CL-3366-081-NRH	80mm (3.14)	9	34.5	7.85	CL-3508-080-NRHI
CL-3366-107-NRH	100mm (3.93)	15	39.2	8.24	CL-3508-100-NRHI



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: [www.carrlane.com](http://www.carrlane.com)

# NO-REBOUND HAMMERS

HOUSING & HANDLE: STEEL ASSEMBLY CONTAINING STEEL PELLETS  
 SUPERCRAFT INSERTS: NYLON, NATURAL WHITE COLOR, HARDNESS 68-78 SHORE D  
 SECURAL INSERTS: POLYURETHANE, YELLOW



**Supercraft  
Hammers  
(Steel Handle)**



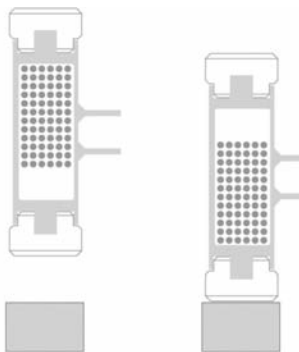
**Secural  
Narrow Hammers  
(Steel Handle)**

No-Rebound Hammers deliver full impact, about 50% greater than a standard hammer. The housing is filled with special steel pellets that transfer momentum to the impact point. Ideal for assembling machine parts without damage. Speeds up work while reducing fatigue. Allows better hammer control by absorbing the bounce. Steel handle with ergonomic rubber grip.

Supercraft No-Rebound Hammers are available in four sizes. Supercraft Hammers have replaceable nylon inserts. These nylon inserts are hard, grease and oil resistant, highly elastic, and have superior strike effectiveness.

Secural Narrow No-Rebound Hammers have a narrow, rectangular head that allows hammering in tight spots, and also makes storage easier in toolbox drawers. Available in one size, with a 30mm x 40mm face. Secural Narrow Hammers have replaceable polyurethane inserts. These inserts are medium soft.

Observe all appropriate safety precautions. Never allow the hammer's striking faces to wear down to the point where the hammer housing makes contact with the work surface, as irreparable damage could result. Always wear safety goggles when using a hammer or any striking tool. Bystanders must also wear safety goggles. Never strike the hammer with or against another striking tool, hardened nail, or any other hard object that could cause damage. Chipping could occur, resulting in possible eye or other injury. Discard any chipped or damaged hammer.



No-Rebound Hammers are filled with special steel pellets that transfer momentum to the impact point.

## SUPERCRAFT HAMMERS — STEEL HANDLE

PART NO.	FACE DIA	WEIGHT (LBS)	OVERALL LENGTH	HEAD LENGTH	REPLACEMENT INSERT (2 REQUIRED)
CL-3377-030-NRH	30mm (1.18)	1.3	11.38	4.32	CL-3508-030-NRHI
CL-3377-040-NRH	40mm (1.57)	1.9	11.77	4.51	CL-3508-040-NRHI
CL-3377-050-NRH	50mm (1.96)	2.6	12.17	4.71	CL-3508-050-NRHI
CL-3377-060-NRH	60mm (2.36)	3.9	12.76	5.69	CL-3508-060-NRHI

## SECURAL NARROW HAMMERS — STEEL HANDLE

PART NO.	FACE DIMENSIONS (RECTANGULAR)	WEIGHT (LBS)	OVERALL LENGTH	HEAD LENGTH	REPLACEMENT INSERT (2 REQUIRED)
CL-3380-040-NRH	30mm x 40mm (1.18 x 1.57)	1.6	11.77	4.59	CL-3511-040-NRHI

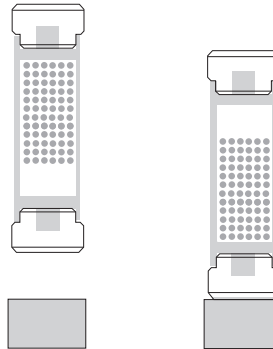


## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# NO-REBOUND DROP HAMMERS

HOUSING: STEEL ASSEMBLY CONTAINING STEEL PELLETS  
 INSERTS: NYLON, NATURAL WHITE COLOR, HARDNESS 68-78 SHORE D



No-Rebound Drop Hammers are filled with special steel pellets that transfer momentum to the impact point.

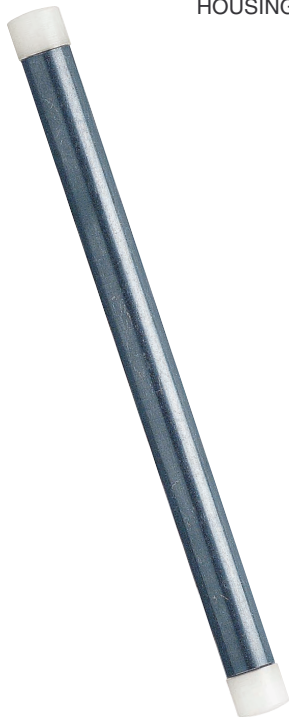
No-Rebound Drop Hammers provide the impact of a normal hammer even when access is restricted. No-Rebound Hammers deliver full impact, about 50% greater than a standard hammer. The housing is filled with special steel pellets that transfer momentum to the impact point. Ideal for assembling machine parts without damage. Speeds up work while reducing fatigue. Allows better hammer control by absorbing the bounce. Available in four sizes.

No-Rebound Drop Hammers have replaceable nylon inserts. These nylon inserts are hard, grease and oil resistant, highly elastic, and have superior strike effectiveness. Applications include assembly operations, metalworking, tooling, positioning of workpieces, automotive assembly and repair work, joining of workpieces, sheet metal working, dent removal, mold construction, and assembly of sharp-edged workpieces.

PART NO.	FACE DIA	WEIGHT (LBS)	LENGTH	REPLACEMENT INSERT (2 REQUIRED)
CL-3408-020-NRH	20mm (.78)	0.5	5.89	CL-3508-020-NRHI
CL-3408-030-NRH	30mm (1.18)	1.0	6.08	CL-3508-030-NRHI
CL-3408-040-NRH	40mm (1.57)	1.8	6.28	CL-3508-040-NRHI
CL-3408-050-NRH	50mm (1.96)	2.8	6.48	CL-3508-050-NRHI

# SOFT-FACE PUNCHES

HOUSING: STEEL. INSERTS: NYLON, NATURAL WHITE COLOR, HARDNESS 68-78 SHORE D



Soft-Face Punches safely extend the reach of a hammer when access is restricted. Transfers impact to difficult-to-reach places. Available in two sizes.

Soft-Face Punches have replaceable nylon inserts. These nylon inserts are hard, grease and oil resistant, highly elastic, and have superior strike effectiveness. Applications include assembly operations, metalworking, tooling, automotive assembly and repair work, joining of workpieces, sheet metal working, dent removal, and assembly of sharp-edged workpieces.

PART NO.	FACE DIA	WEIGHT (LBS)	LENGTH	REPLACEMENT INSERT (2 REQUIRED)
CL-3408-010-SFP	10mm (.39)	0.2	6.59	CL-3508-010-NRHI
CL-3408-015-SFP	15mm (.59)	0.4	6.87	CL-3508-015-NRHI



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: [www.carrlane.com](http://www.carrlane.com)