

C50L®

The fastener that has defined HuckBolts for more than 50 years.

The C50L® offers superior vibration resistance and overall durability for heavy-duty fastening jobs, and is ideal for use within applications where consistent, uniform high clamp force is required. Testing has proven that C50L fasteners meet, or exceed the performance of torqued bolts in both shear and tensile strength, as well as fatigue life. For heavy-duty applications ranging from railcar to mining equipment manufacturing, the C50L delivers superior vibration resistance and overall durability.

Available Sizes:

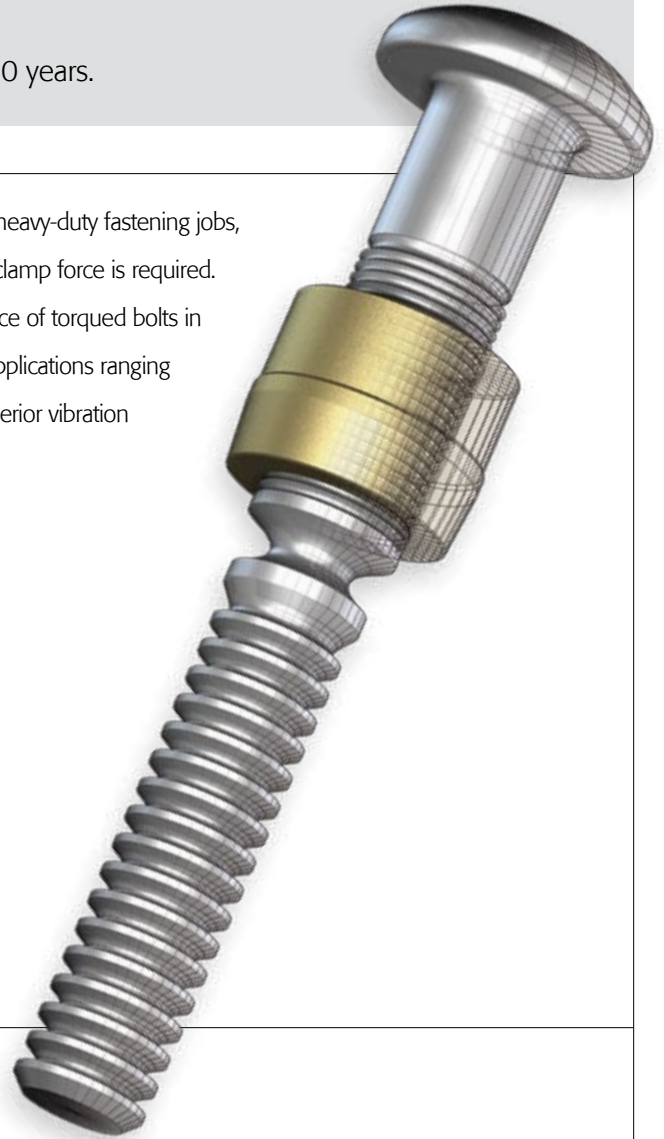
1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-3/8"

Materials:

Steel, Aluminum

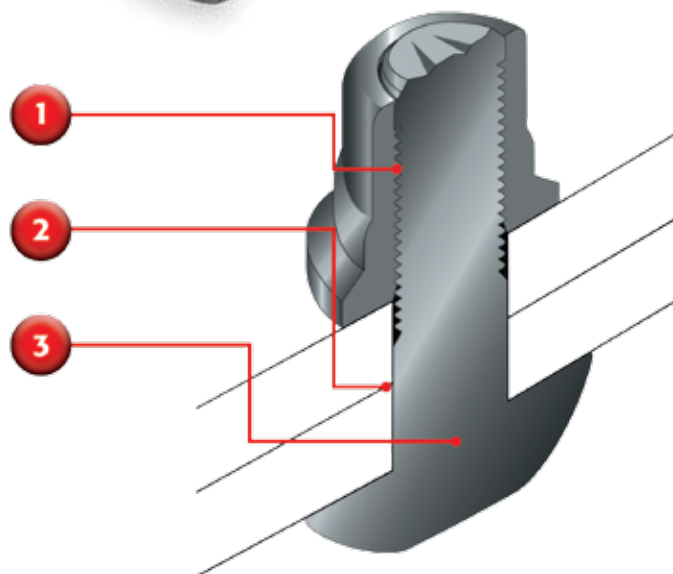
Headstyles:

Round, Truss, Large Truss, 90° Flush, Thread Head

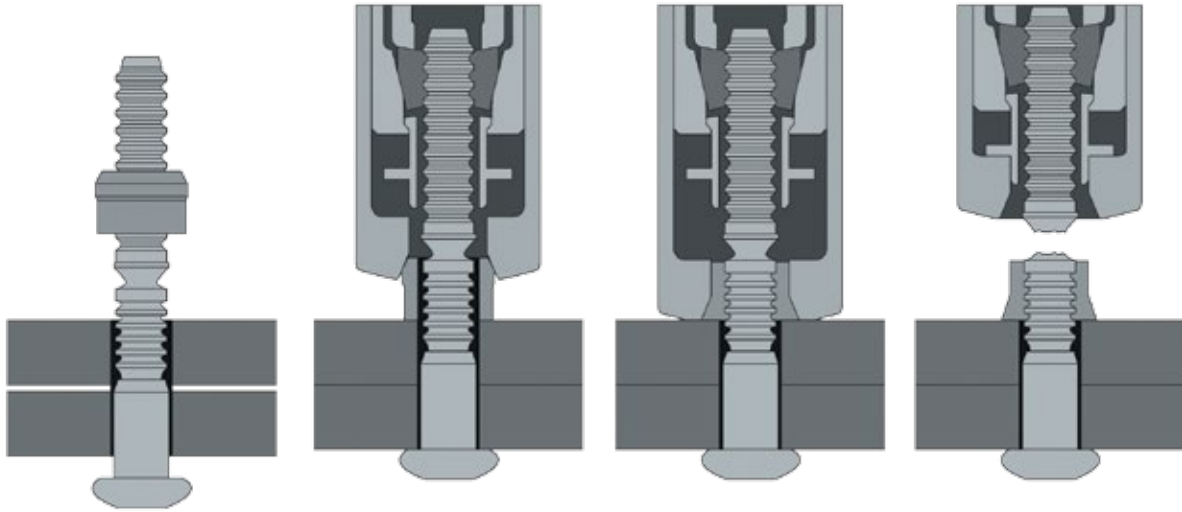


Secure, Fast Installation

1. Swaged-on collar forms a permanent, vibration-proof connection.
2. Initial long length of fastener enables pull-out of large gaps.
3. Consistent, repeatable pre-load.



Installation Sequence



The pin is inserted into the prepared hole and the smooth bore collar is placed on the pin.

The installation tool is applied to the pintail. When the tool is activated, the jaws in the nose assembly pull on the pintail and the nose anvil pushes on the collar to remove any gap.

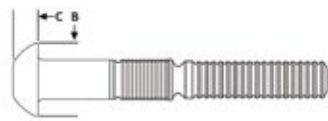
The nose anvil starts to swage the collar into the lockgrooves on the pin. Continued swaging causes the collar to lengthen and develop clamp.

When swaging of the collar into the lockgrooves is complete, the pintail separates from the pin which completes the installation cycle.

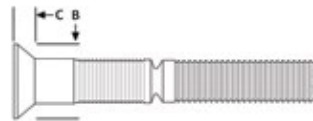


Unlike threaded fasteners, the C50L HuckBolt delivers consistent installation results. High costs of calibrating, maintaining, and replacing tools are eliminated. And installation does not require expensive, highly experienced workers.

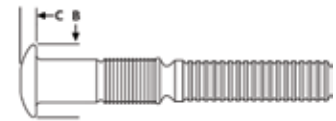
C50L Data and Dimensions



Round



90 Degree Flush



80 Degree Flush

Steel Pin - Black

Diameter	Part No.	Grip Range	Max Hole Size	[B] Head Dia (max)	[C] Head Height (max)	Typical Shear* (lbs)	Typical Clamp* (lbf)	Typical Tensile* (lbs)
Round Head								
1/2"	C50LR-BR16-4	.250-.500	.563	.906	.316	14400	12050	17050
	C50LR-BR16-8	.500-.750	.563	.906	.316	14400	12050	17050
	C50LR-BR16-12	.750-1.000	.563	.906	.316	14400	12050	17050
	C50LR-BR16-16	1.000-1.125	.563	.906	.316	14400	12050	17050
	C50LR-BR16-20	1.250-1.500	.563	.906	.316	14400	12050	17050
	C50LR-BR16-24	1.500-1.750	.563	.906	.316	14400	12050	17050
	C50LR-BR16-28	1.750-2.000	.563	.906	.316	14400	12050	17050
	C50LR-BR16-32	2.000-2.250	.563	.906	.316	14400	12050	17050
5/8"	C50LR-BR20-4	.250-.500	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-8	.500-.750	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-12	.750-1.000	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-16	1.000-1.125	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-20	1.250-1.500	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-24	1.500-1.750	.688	1.141	.397	22500	19200	27100
3/4"	C50LR-BR24-8	.500-.750	.813	1.383	.495	32400	28400	40100
	C50LR-BR24-12	.750-1.000	.813	1.383	.495	32400	28400	40100
	C50LR-BR24-16	1.000-1.125	.813	1.383	.495	32400	28400	40100
	C50LR-BR24-20	1.250-1.500	.813	1.383	.495	32400	28400	40100
	C50LR-BR24-24	1.500-1.750	.813	1.383	.495	32400	28400	40100
	C50LR-BR24-28	1.750-2.000	.813	1.383	.495	32400	28400	40100
	C50LR-BR24-32	2.000-2.250	.813	1.383	.495	32400	28400	40100
	C50LR-BR24-36	2.250-2.500	.813	1.383	.495	32400	28400	40100
7/8"	C50LR-BR28-16	1.000-1.125	.938	1.610	.550	43400	39250	55450
	C50LR-BR28-20	1.250-1.500	.938	1.610	.550	43400	39250	55450
	C50LR-BR28-24	1.500-1.750	.938	1.610	.550	43400	39250	55450
	C50LR-BR28-28	1.750-2.000	.938	1.610	.550	43400	39250	55450
	C50LR-BR28-32	2.000-2.250	.938	1.610	.550	43400	39250	55450
	C50LR-BR28-36	2.250-2.500	.938	1.610	.550	43400	39250	55450
	C50LR-BR28-40	2.500-2.750	.938	1.610	.550	43400	39250	55450
1"	C50LR-BR32-20	1.250-1.500	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-24	1.500-1.750	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-28	1.750-2.000	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-32	2.000-2.250	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-36	2.250-2.500	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-44	2.750-3.000	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-48	3.000-3.250	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-52	3.250-3.500	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-56	3.500-3.750	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-60	3.750-4.000	1.063	1.850	.618	56500	51500	72700
	C50LR-BR32-64	4.000-4.250	1.063	1.850	.618	56500	51500	72700
C50LR-BR32-84	5.250-5.500	1.063	1.850	.618	56500	51500	72700	
C50LR-BR32-88	5.500-5.750	1.063	1.850	.618	56500	51500	72700	

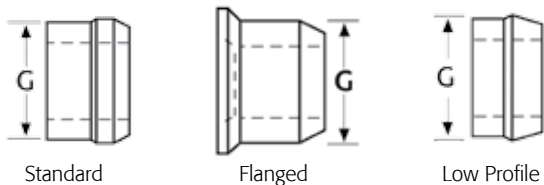
NOTE: Part number listings reflect typical stock. Items not listed require a minimum order.
*For carbon steel pins.

Steel Pin - Zinc Plated

Diameter	Part No.	Grip Range	Max Hole Size	[B] Head Dia (max)	[C] Head Height (max)	Typical Shear (lbs)	Typical Clamp (lbf)	Typical Tensile (lbs)
Round Head								
1/2"	C50LR-BR16-4GA	.250-.500	.563	.906	.316	14400	12050	17050
	C50LR-BR16-8GA	.500-.750	.563	.906	.316	14400	12050	17050
	C50LR-BR16-12GA	.750-1.000	.563	.906	.316	14400	12050	17050
	C50LR-BR16-16GA	1.000-1.125	.563	.906	.316	14400	12050	17050
5/8"	C50LR-BR20-4GA	.250-.500	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-8GA	.500-.750	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-12GA	.750-1.000	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-16GA	1.000-1.125	.688	1.141	.397	22500	19200	27100
	C50LR-BR20-20GA	1.250-1.500	.688	1.141	.397	22500	19200	27100
3/4"	C50LR-BR24-12GA	.750-1.000	.813	1.383	.495	32400	28400	40100
90° Flush Head								
5/8"	C50L90-BR20-12	.750-1.000	.688	1.140	.313	22500	19200	27100
3/4"	C50L90-BR24-12	.750-1.000	.813	1.370	.375	32400	28400	40100
	C50L90-BR24-16	1.000-1.125	.813	1.370	.375	32400	28400	40100
	C50L90-BR24-20	1.250-1.500	.813	1.370	.375	32400	28400	40100
	C50L90-BR24-24	1.500-1.750	.813	1.370	.375	32400	28400	40100
	C50L90-BR24-28	1.750-2.000	.813	1.370	.375	32400	28400	40100
	C50L90-BR24-32	2.000-2.250	.813	1.370	.375	32400	28400	40100
80° Flush Head								
3/4"	C50L80-BR24-16	1.000-1.125	.813	1.250	.348	32400	28400	40100

NOTE: Part number listings reflect typical stock. Items not listed require a minimum order.

C50L Lockbolt Collars



Steel, Zinc Plated

Diameter	Part No.	Width (G)
Standard, Non-Flanged		
1/2"	LC-2R16G	.765-.800
5/8"	LC-2R20G	.970-.985
3/4"	LC-2R24G	1.165-1.180
7/8"	LC-2R28G	1.360-1.375
1"	LC-2R32G	1.550-1.570
1-1/8"	LC-2R36G	1.750-1.770
Flanged		
1/2"	3LC-2R16G	.793-.807
5/8"	3LC-2R20G	.980-.996
5/8"	3LC-2R20GANL	.980-.996
3/4"	3LC-2R24G	1.175-1.195
7/8"	3LC-2R28G	1.360-1.370
1"	3LC-2R32G	1.550-1.565
Low Profile		
5/8"	8LC-2R20GA	.972-.982
7/8"	8LC-2R28G	1.360-1.375

C50L Installation Tooling

Diameter	Installation Tool	Nose Assembly	Type
1/2"	2620	99-5000	Hydraulic
	2620PT	99-5002	Hydraulic
5/8"	2624/2628	99-5008	Hydraulic
	3585	99-5008	Hydraulic
3/4"	3585	99-5010	Hydraulic
7/8"	2630	99-5014	Hydraulic
1"	507	99-5016	Hydraulic
1-1/8"	507	99-5019	Hydraulic

