

NEW CRUSH DESIGN CREATES
TIGHTER FASTENING

AFTER TIGHTENING

- Multiple Head Styles
- Immediate Loading
- All-Steel

NEW!

Lok-Bolt™ AS

Sleeve Expansion System

PATENTED



Powers
FASTENERS



Lok-Bolt AS™

Sleeve Type Expansion Anchor

PRODUCT DESCRIPTION

The Lok-Bolt AS™ is an all steel pre-assembled single unit sleeve anchor which can be used in concrete or masonry units. Available in multiple head styles for multiple applications and finished appearance, extension sleeves can be added to create longer lengths.

GENERAL APPLICATIONS AND USES

• Door/Window Frame installations • Masonry applications • Electrical/Mechanical applications • Mounting fixtures on walls

FEATURES AND BENEFITS

• Multiple head styles • All-Steel design • Immediate loading • Versatile-ideal for concrete or masonry applications

MATERIAL SPECIFICATIONS

Anchor Component	Plow Bolt	Expansion Sleeve	Zinc Plating
Specification	AISI 1010/ 1018	AISI 1010	ASTM B633, SC1, Type III (Fe/Zn 5)

Ultimate Load Tables



MATERIAL SPECIFICATIONS

Ultimate And Allowable Load Capacities for Carbon + Stainless Steel Lok-Bolt AS® Anchors in Hollow or Solid Concrete Masonry^{1,2,3,4}

Anchor Diameter <i>d</i> in. (mm)	Min. Embed. Depth <i>h_v</i> in. (mm)	Guide Installation Torque ft. lbs	Minimum Edge Distance in. (mm)	Minimum End Distance in. (mm)	<i>f</i> 'm ≥ 1,500 psi (10.4 MPa)			
					Ultimate		Allowable	
					Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	1 (25.4)	4	3-3/4 (95.3)	4 (101.3)	800 (3.6)	1,140 (5.1)	160 (3.6)	225 (1.0)
5/16 (7.9)	1 (25.4)	8			905 (4.0)	1,575 (7.0)	180 (0.80)	310 (1.4)
3/8 (9.5)	1-1/4 (31.7)	15			1,100 (4.8)	1,570 (7.0)	220 (0.97)	310 (1.4)
1/2 (12.7)	1-1/2 (38.1)	18			1,525 (6.7)	1,570 (7.0)	305 (1.3)	1,570 (7.0)

1. Tabulated load values are for anchors installed in minimum 6-inch wide, Grade N, Type II, normal-weight concrete masonry units. Mortar must be minimum Type N, S or M. Masonry prism compressive strength must be 1,500 psi minimum at time of installation.

2. Allowable load capacities listed are calculated using a safety factor of 5.0. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety or overhead.

3. A suitable anchor length must be selected including consideration of a fixture to engage the base material at the minimum embedment depth when anchoring into hollow concrete masonry.

4. The consistency of hollow concrete block masonry base materials can vary greatly. Consideration of job site testing should be given to verify conformance of base materials and anchor performance in actual conditions.

Ultimate Load Capacities for Carbon + Stainless Steel Lok-Bolt AS® Anchors in Normal Weight Concrete^{1,2}

Anchor Diameter <i>d</i> in. (mm)	Min. Embed. Depth <i>h_v</i> in. (mm)	Guide Installation Torque ft. lbs		Minimum Concrete Compressive Strength 3,500 psi (24.1 MPa)	
		Carbon	Stainless	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	1/2 (12.7)	4	-	240 (1.0)	1,000 (4.4)
	1 (25.4)	6	4	980 (4.3)	1,120 (4.3)
5/16 (7.9)	1 (25.4)	12	-	1,300 (5.6)	2,360 (10.5)
3/8 (9.5)	1-1/4 (31.7)	18	18	2,040 (9.0)	4,110 (8.3)
1/2 (12.7)	1-1/2 (38.1)	26	26	2,420 (10.7)	4,860 (21.6)
5/8 (15.9)	2 (50.8)	50	40	4,750 (21.1)	4,860 (21.6)
3/4 (19.1)	2-1/4 (57.2)	90	60	5,020 (22.3)	11,040 (29.0)

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety or overhead.

2. Tabulated load values are for anchors installed at a minimum spacing distance between anchors and an edge distance of 12 times the anchor diameter.

NEW!

ANCHOR MATERIALS

Zinc Plated
Carbon Steel

HEAD STYLES

Hex Head
Acorn Nut
Round Head
Combo Flat Head
Threshold Flat Head
Rod Hanger
Tie-Wire

ANCHOR SIZE RANGE (TYP.)

1/4" diameter
x 5/8" length
UP TO
3/4" diameter
x 8-1/4" length

SUITABLE BASE MATERIALS

Normal-Weight
Concrete

Grouted
Concrete
Masonry

Hollow
Concrete
Masonry

(uncracked
base
materials)

ONE
PIECE
ALL-STEEL
SLEEVE
DESIGN

NEW
COMPRESSION
SLEEVE
CRUSHES
FOR TIGHTER
CLAMPING
FORCES

FITS EASILY
THROUGH
WINDOW AND
DOOR JAMBS
WITHOUT
HANGING UP

Drill hole to depth of at least 1/2" (or 1 anchor dia.) deeper than embedment required. Drill bit tolerances should meet the requirements of ANSI Standard B212.15



Blow hole clean of dust and other material. Do not expand the anchor prior to installation.



ORDERING INFORMATION

Hex Nut Lok-Bolt AS™ Carbon Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
5005S	5/16" x 1-1/2"	5/16"	1-3/8"	100	1000
5010S	5/16" x 2-1/2"	5/16"	1-1/2"	100	500
5015S	3/8" x 1-7/8"	3/8"	1-5/8"	50	500
5020S	3/8" x 3"	3/8"	1-5/8"	50	500
5022S	3/8" x 4"	3/8"	1-5/8"	50	250
5025S	1/2" x 2-1/4"	1/2"	2-1/8"	25	250
5030S	1/2" x 3"	1/2"	2-1/4"	25	250
5034S	1/2" x 4"	1/2"	2-1/4"	25	125
5033S	1/2" x 5-1/4"	1/2"	2-1/4"	25	125
5032S	1/2" x 6"	1/2"	2-1/4"	10	100
5035S	5/8" x 2-1/4"	5/8"	2-1/8"	25	125
5038S	5/8" x 3"	5/8"	2-3/4"	25	125
5040S	5/8" x 4-1/4"	5/8"	2-3/4"	10	100
5045S	5/8" x 6"	5/8"	2-3/4"	10	100
5050S	3/4" x 2-1/2"	3/4"	2-1/8"	10	100
5055S	3/4" x 4-1/4"	3/4"	3-3/8"	10	40
5060S	3/4" x 6-1/4"	3/4"	3-3/8"	10	30
5065S	3/4" x 8-1/4"	3/4"	3-3/8"	10	30

Hex Nut Lok-Bolt AS™ 304 Stainless Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
6152S	3/8" x 1-7/8"	3/8"	1-5/8"	50	500
6153S	3/8" x 3"	3/8"	1-5/8"	50	500
6156S	1/2" x 2-1/4"	1/2"	2-1/8"	25	250
6157S	1/2" x 3"	1/2"	2-1/4"	25	250
6160S	1/2" x 3-3/4"	1/2"	2-1/4"	25	125
6164S	5/8" x 4-1/4"	5/8"	2-3/4"	10	100
6168S	3/4" x 4"	3/4"	3-3/8"	10	40

Acorn Nut Lok-Bolt AS™ Carbon Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
5125S	1/4" x 5/8"	1/4"	1/2"	100	1000
5150S	1/4" x 1-3/8"	1/4"	1-1/8"	100	1000
5175S	1/4" x 2-1/4"	1/4"	1-1/8"	100	1000

Acorn Nut Lok-Bolt AS™ 304 Stainless Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
6150S	1/4" x 1-3/8"	1/4"	1-1/8"	100	1000

For the above tables the published length is measured from below the washer to the end of the anchor.

Round Head Lok-Bolt AS™ Carbon Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
5205S	1/4" x 1-1/8"	1/4"	1"	100	1000
5210S	1/4" x 2"	1/4"	1-1/8"	100	1000
5215S	1/4" x 2-3/4"	1/4"	1-1/8"	100	1000
5220S	1/4" x 3-3/4"	1/4"	1-1/8"	100	1000
5225S	5/16" x 2-3/8"	5/16"	1-1/4"	100	1000
5230S	5/16" x 3-3/8"	5/16"	1-1/4"	100	500
5235S	3/8" x 2-1/2"	3/8"	1-5/8"	50	500
5240S	3/8" x 3-3/4"	3/8"	1-5/8"	50	250

Round Head Lok-Bolt AS™ 304 Stainless Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
6180S	1/4" x 2"	1/4"	1-1/8"	100	1000

Combo Flat Head Lok-Bolt AS™ Carbon Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
5305S	1/4" x 1-1/8"	1/4"	1"	100	1000
5310S	1/4" x 2"	1/4"	1-1/8"	100	1000
5315S	1/4" x 3"	1/4"	1-1/8"	100	1000
5320S	1/4" x 4"	1/4"	1-1/8"	100	500
5325S	1/4" x 5-1/4"	1/4"	1-1/8"	100	500
5330S	5/16" x 2-1/2"	5/16"	1-1/2"	100	1000
5340S	3/8" x 2-3/4"	3/8"	1-5/8"	50	500
5345	3/8" x 4"	3/8"	1-5/8"	50	250
5350S	3/8" x 5"	3/8"	1-5/8"	50	250
5360S	3/8" x 6"	3/8"	1-5/8"	50	250

Combo Flat Head Lok-Bolt AS™ 304 Stainless Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
6170S	1/4" x 2"	1/4"	1-1/8"	100	1000
6172S	1/4" x 3"	1/4"	1-1/8"	100	1000
6174S	3/8" x 4"	3/8"	1-5/8"	50	250
6175S	3/8" x 5"	3/8"	1-5/8"	50	250
6176S	3/8" x 6"	3/8"	1-5/8"	50	250

These parts do not have a compression ring.

Threshold Flat Head Lok-Bolt AS™

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
5500S	1/4" x 2"	1/4"	1-1/8"	100	1000

This part does not have a compression ring.

Rod Hanger Lok-Bolt AS™ Carbon Steel

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
5810S	1/4" x 1-1/2"	5/16"	1-1/2"	50	250
5815S	3/8" x 1-7/8"	3/8"	1-5/8"	50	250
5825S	1/2" x 2-1/4"	1/2"	2-1/4"	25	125

Tie-Wire Lok-Bolt AS™

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
5700S	5/16" x 1-1/2"	5/16"	1-1/2"	100	1000

Lok-Bolt AS™ Extenders Carbon Steel

(For additional length)

Cat. No.	Size	Drill Dia.	Min. Embed.	Std. Box	Std. Ctn.
6684S	3/8" x 1-1/4"	3/8"	N/A	50	500



Drive the anchor through the fixture into the anchor hole until the head is firmly seated against the fixture. Be sure the anchor is driven to the required embedment depth.



Tighten the anchor by turning the nut of the head 3 to 5 turns past finger tight or by applying the guide installation torque from the finger tight position.



POWERS FASTENERS **BRANCH INFORMATION**

USA LOCATIONS

CITY	ADDRESS	CONTACT	PHONE	FAX
Alabama	5405 Buford Hwy Suite 410 Norcross, GA 30071-3984	Jeff Hatchett	205-520-6044	678-966-9242
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Boston	2 Powers Lane, Brewster, NY 10509	Jack Armour	800-524-3244	914-576-6483
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Chicago	2472 Wisconsin Avenue, Downers Grove, IL 60515	Dan Gilligan	630-960-3156	630-960-3912
Dallas	10625 King Williams Drive, Dallas, TX 75220	Kyle Thuenemann	972-506-9258	972-506-9290
Denver	2475 West Second Street #35, Denver, CO 80223	Aaron Minnis	303-922-9202	303-922-9228
Detroit	21600 Wyoming Avenue, Oak Park, MI 48237	Glen Gaskill	248-543-8600	248-543-8601
Florida	9208 Palm River Road, Bldg. 3, Suite 305, Tampa, FL 33619	Mark Mamula	813-626-4500	813-626-4545
Houston	13833 North Promenade, Suite 100, Stafford, TX 77477	Chris Salisbury	281-491-0351	281-491-0367
Indianapolis	15290 Stony Creek Way, Noblesville, IN 46060	Bill Trainor	317-773-1668	317-773-1690
Kansas City / St Louis	716 East 16th Avenue, North Kansas City, MO 64116	Don James, Jr.	816-472-5038	816-472-5040
Los Angeles	2761 Dow Avenue, Tustin, CA 92780	Jack Stewart	714-731-2500	714-731-2566
Maryland	3137-B Pennsy Drive, Landover, MD 20785	Chris Van Syckle	301-773-1722	301-341-5119
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Seattle	129 South Kenyon, Seattle, WA 98108	Darin Arnold	206-762-5812	206-762-5817

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Costa Rica	Electro Mechanics Supply, La Uruca Contiguo Banco Ntnl., De Costa Rica Condominio, Horizontal Bodega #9, San Jose, Costa Rica		(506) 2233-2595	
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