

Channel Nuts & Hardware



Channel Nuts

Channel nuts are one of the main components of our strut system. It is designed to provide essential gripping power and ease during installation. Channel nuts are press formed, machined and hardened from steel which meets the requirements of ASTM A108 or ASTM A36 for our larger sizes.

Bolts, Screws, and Nuts

All bolts, screws and nuts meet the physical and chemical requirements of ASTM A307, SAE J429 or ASTM A563, and have unified inch screw threads (coarse, UNC). ISO metric threads are also available on special request.

Recommended Torque

Special Note:
For recommended torque on 4Dimension trapeze hangers using B200 series square washers, see page 4D08.

Bolt Size	1/4"-20	5/16"-18	3/8"-16	1/2"-13
Foot/Lbs.	6	11	19	50
Nm	8	15	26	68

Bolt Size	M6x1	M8 x1.25	M10 x 1.5	M12x1.75
Nm	12	17	36	62
Foot/Lbs.	9	13	27	46

Materials & Finishes*

*Unless otherwise noted.
Note: Channel nuts are not available in HDG, Aluminum, or Stainless Steel Type 304

Finish Code	Finish	Specification
PLN	Plain	ASTM A108/A307 Gr. A, ASTM A563, SAE J429
ZN	Electro-Plated Zinc	ASTM B633 SC1 Type III
CZ	Chromium Zinc	ASTM F1136 Gr. 3
HDG	Hot-Dipped Galvanized	ASTM A153
SS6	Stainless Steel Type 316	MPIF 35/ASTM F593
AL	Aluminum	ASTM F468 S4

Metric

Metric dimensions are shown in parentheses. Unless noted, all metric dimensions are in millimeters.

Standard Channel Nuts

Numbering Example:

N 7 25 - (*) WO

Nut Type

N = Standard Nut
 TN = Twirl-Nut™
 SN = Stud Nut
 STN = Stud Twirl-Nut™
 NW = Combo Nut Washer

Channel Type

7 = Tall Channels
 B11
 B12
 2 = Medium Channels
 B22
 B24
 B26
 B32
 5 = Short Channels
 B42
 B52
 B54
 B56

Thread Size

21 = #8-32
 22 = #10-24
 27 = #10-32
 24 = 1/4"-20
 23 = 5/16"-18
 28 = 3/8"-16
 26 = 7/16"-14
 25 = 1/2"-13
 55 = 5/8"-11
 75 = 3/4"-10
 78 = 7/8"-9

Stud Length

* = Specify Length of stud below for Stud Nut or Twirl Stud Nuts
 3/4 = 3/4"
 1 = 1"
 1 1/4 = 1 1/4"
 1 1/2 = 1 1/2"

Suffix

WO = Without Spring
 ___ = Twirl-Nut™ or nuts with springs have blank suffix

Metric Channel Nuts

Numbering Example:

BMS - 6 M

Nut Type

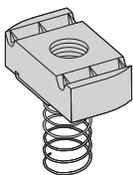
BMS = Spring Nut
 BMS-D = Spring Nut (1/2" thick)
 BMT = Twirl-Nut™
 BMT-D = Twirl-Nut™ (1/2" thick)
 BMM = Spring Nut (Mini channel)

Metric Thread Size

3 = M3.5
 4 = M4
 5 = M5
 6 = M6
 8 = M8
 10 = M10
 12 = M12

Suffix

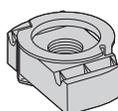
S = Short Spring
 M = Medium Spring
 L = Long Spring
 ___ = Twirl-Nut™ and nuts without springs have blank suffix



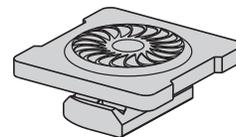
Spring Nut



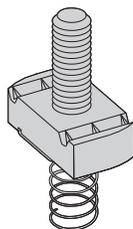
Nut without Spring



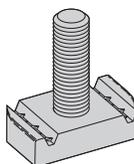
Twirl-Nut™



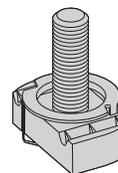
Combo Nut Washer



Stud Nut with Spring



Stud Nut without Spring



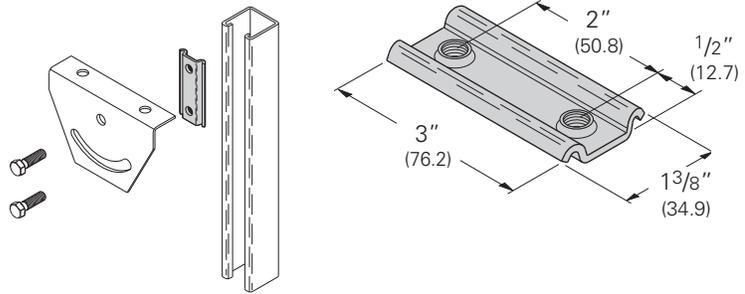
Twirl Stud Nut

Reference page 45 for general fitting and standard finish specifications.

Hardware

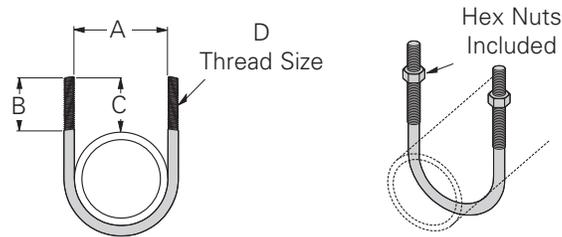
DCN 3/8 Double Conveyor Nut

- Recommended torque - 19 ft./Lbs.
- Allowable slip loading - 700 Lbs.(3.11kN)
- Safety Factor of 3
- Material: ASTM 1011SS Gr. 33
- Finish: Electrodeposited zinc ASTM B633 SC1
- Strut ordered separately



B501 Series U-Bolt

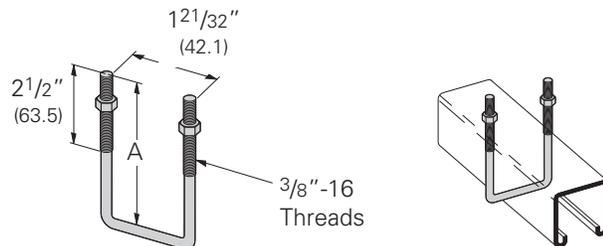
- Designed for use with Rigid Conduit or Iron Pipe
- Dimension "C" is dependent on the type of pipe or conduit supported and is a reference only



Part No.	A		B		C		D	Design Load		Wt./C	
	In.	mm	In.	mm	In.	mm		Lbs.	kN	Lbs.	kg
B501-1/2	1 5/16"	(23.8)	1 3/4"	(44.4)	1 1/2"	(38.1)	5/16"-18	600	(2.67)	12	(5.4)
B501-3/4	1 1/8"	(28.6)	1 3/4"	(44.4)	1 5/8"	(41.3)	5/16"-18	600	(2.67)	13	(5.9)
B501-1	1 3/8"	(29.9)	1 7/8"	(47.6)	1 5/8"	(41.3)	5/16"-18	900	(4.00)	14	(6.3)
B501-1 1/4	1 23/32"	(43.6)	1 3/4"	(44.4)	1 15/32"	(37.3)	5/16"-18	900	(4.00)	15	(6.8)
B501-1 1/2	2"	(50.8)	1 3/4"	(44.4)	1 7/16"	(36.5)	5/16"-18	900	(4.00)	16	(7.2)
B501-2	2 7/16"	(61.9)	2 1/16"	(52.4)	1 7/8"	(47.6)	3/8"-16	1200	(5.34)	27	(12.2)
B501-2 1/2	2 15/16"	(74.6)	2 1/16"	(52.4)	1 13/16"	(46.0)	3/8"-16	1200	(5.34)	32	(14.5)
B501-3	3 9/16"	(90.5)	2"	(50.8)	1 3/4"	(44.4)	3/8"-16	1800	(8.00)	36	(16.3)
B501-3 1/2	4 3/32"	(94.6)	2"	(50.8)	1 23/32"	(43.6)	3/8"-16	1800	(8.00)	38	(17.2)
B501-4	4 19/32"	(116.7)	2 1/4"	(57.1)	1 21/32"	(50.0)	3/8"-16	1800	(8.00)	42	(19.0)
B501-5	5 21/32"	(143.6)	2 1/4"	(57.1)	2"	(50.8)	1/2"-13	2400	(10.70)	92	(41.7)
B501-6	6 3/4"	(171.4)	2 5/8"	(66.7)	2 3/8"	(60.3)	5/8"-11	2400	(10.70)	176	(79.8)
B501-8	8 3/4"	(222.2)	2 5/8"	(66.7)	2 3/8"	(60.3)	5/8"-11	2400	(10.70)	191	(86.6)

B500 Series Square U-Bolt

- Includes:
 - 1 pc. U-Bolt only
 - 2 pcs. 3/8"-16 Hex Nuts
- Additional sizes available
- Standard finish: ZN, SS4



Part No.	A		Channel Size	Wt./C	
	Lbs.	kg		Lbs.	kg
B500-3-3/8	3 3/8"	(85.7)	1 5/8" x 1 5/8"	25	(11.3)
B500-5	5"	(127.0)	3 1/4" x 1 5/8"	33	(14.9)

Reference page 45 for general fitting and standard finish specifications.