

ASHWANI IMPORTS & EXPORTS

The Quality you deserve



BUSINESS CATALOGUE

2024-2025



أشواني للاستيراد والتصدير

الجودة التي تستحقها





ASHWANI IMPORTS & EXPORTS

أشواني للاستيراد والتصدير

INTRODUCTON

Ashwani Imports & Exports, we are your one-stop destination for a wide array of industrial solutions. Our extensive product range covers **Anchor Bolts, Fasteners, Nuts, Washers, Screws, U Bolts, Threaded Rods, Hanging Clamps, Beam Clamps, Consumables, Oil & Lubricants, Hand Tools, Pipes, Structural Steel, Plates, Machinery, Tools & Dies, and Castings in both Aluminum and Iron.**

We are a domestic steel construction fastener manufacturer with products in multiple industries including Steel Fabrication, Highway, Marine, Timber Construction, Power and Energy, Government and Military, Precast Concrete, Light Rail, Mining, Light Pole & Traffic Signal, Pole Line Hardware, and OEM. We specialize in fasteners not easily found in the marketplace.

No matter the size or grade you require, we have a solution that fits. Our dedication to meeting diverse needs means that we cater to a wide range of specifications, providing versatility and reliability in every order.

Our specialization lies in customized fabrication, where we transform your unique requirements into tangible solutions. This bespoke approach sets us apart, allowing us to deliver tailored products that perfectly align with your needs.

Quality is the cornerstone of our operations. With an ISO 9001:2015 and 45001:2018 certification, we ensure that every product leaving our facility adheres to stringent quality control processes. Our goal is to not only meet industry standards but to exceed them consistently.

With a wide spectrum of offerings and a focus on personalized solutions, we are your trusted partner for all your industrial and commercial requirements.

Experience the difference that comes with a commitment to excellence. We appreciate if you choose **Ashwani Imports & Exports** - where quality meets customization. **Ashwani Imports & Exports** means choosing a partner dedicated to delivering quality, customization, and excellence in every aspect.

Experience the difference for yourself. Discover **Ashwani Imports & Exports** – where your needs meet our expertise.

CEO, ASHWANI KUMAR

**Annexure B**

GSTIN 03AIXPK5276B2Z4
Legal Name ASHWANI KUMAR
Trade Name, if any ASHWANI IMPORTS AND EXPORTS

Details of Proprietor

1



Name ASHWANI KUMAR
Designation/Status PROPRIETOR
Resident of State Punjab

**Annexure A**

GSTIN 03AIXPK5276B2Z4
Legal Name ASHWANI KUMAR
Trade Name, if any ASHWANI IMPORTS AND EXPORTS

Details of Additional Places of Business

Total Number of Additional Places of Business in the State 0



Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number : 03AIXPK5276B2Z4

1.	Legal Name	ASHWANI KUMAR			
2.	Trade Name, if any	ASHWANI IMPORTS AND EXPORTS			
3.	Constitution of Business	Proprietorship			
4.	Address of Principal Place of Business	302/4D, MODEL TOWN, EXTENSION D BLOCK, ADARSH NAGAR, LUDHIANA, Ludhiana, Punjab, 141002			
5.	Date of Liability				
6.	Period of Validity	From	14/10/2021	To	Not Applicable
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority	Punjab			

Signature

Signature Not Verified
Digitally signed by DS GOODS AND
SERVICES TAX NETWORK(4)
Date: 2021.10.14 16:30:21 IST



Name	Manu Garg
Designation	Excise And Taxation Officer-cum- State Tax Officer
Jurisdictional Office	Ludhiana 2 - Ward No.30
9. Date of issue of Certificate	14/10/2021

Note: The registration certificate is required to be prominently displayed at all places of business in the State.



Certificate of Registration

ASHWANI IMPORTS AND EXPORTS

302/4D, MODEL TOWN EXTN, D BLOCK, ADARSH NAGAR,
LUDHIANA-141002, PUNJAB, INDIA

has been assessed and Certified by Otabu Certification Pvt. Ltd.
as meeting the requirements of:

ISO 9001:2015 Quality Management System

For the following scope of activities:

IMPORT, EXPORTS & TRADING OF ANCHOR BOLTS, FASTENERS, SCAFFOLDING ACCESSORIES,
BUILDING MATERIAL, NYLONE ROPES, SHOES, TOOLS & DIES, CONSUMABLES, TRACTOR AND
TRAILOR PARTS, HOSIERY ITEMS, DENIM, TRACK SUITS, T-SHIRTS & FOOD PRODUCTS

Issue No : 01

Date of Certification: 30 August 2023

1st Surveillance Due: 29 August 2024

Revision No () : NA

2nd Surveillance Due: 29 August 2025

Certificate Expiry: 29 August 2026
(subject to the company maintaining its system to the
required standard)

Certificate No:- 0830Q201823

To Verify this Certificate please visit at www.otabucert.com




Dr. Anita Gupta
(Managing Director)

*Validity of the certificate is subject to successful completion of surveillance audit on or before due date (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawal). *This Certificate of Registration remains the Property of Otabu Certification Pvt. Ltd. and shall be returned immediately upon request.

Otabu Certification Pvt. Ltd., RZ-9 (Ground Floor), Prem Nagar, Uttam Nagar, New Delhi-110059 (India)

Email:- info@otabucert.com website:-www.otabucert.com



Certificate of Registration

ASHWANI IMPORTS AND EXPORTS

302/4D, MODEL TOWN EXTN, D BLOCK, ADARSH NAGAR,
LUDHIANA-141002, PUNJAB, INDIA

has been assessed and Certified by Otabu Certification Pvt. Ltd.
as meeting the requirements of:

ISO 45001:2018

Occupational Health & Safety Management System

For the following scope of activities:

IMPORT, EXPORTS & TRADING OF ANCHOR BOLTS, FASTENERS, SCAFFOLDING ACCESSORIES,
BUILDING MATERIAL, NYLONE ROPES, SHOES, TOOLS & DIES, CONSUMABLES, TRACTOR AND
TRAILOR PARTS, HOSIERY ITEMS, DENIM, TRACK SUITS, T-SHIRTS & FOOD PRODUCTS

Issue No : 01

Date of Certification: 30 August 2023

1st Surveillance Due: 29 August 2024

Revision No () : NA

2nd Surveillance Due: 29 August 2025

Certificate Expiry: 29 August 2026
(subject to the company maintaining its system to the
required standard)

Certificate No:- 0830O201923

To Verify this Certificate please visit at www.otabucert.com




Dr. Anita Gupta
(Managing Director)

*Validity of the certificate is subject to successful completion of surveillance audit on or before due date (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawal). *This Certificate of Registration remains the Property of Otabu Certification Pvt. Ltd. and shall be returned immediately upon request.

Otabu Certification Pvt. Ltd., RZ-9 (Ground Floor), Prem Nagar, Uttam Nagar, New Delhi-110059 (India)

Email:- info@otabucert.com website:-www.otabucert.com



Government of India

Ministry of Commerce and Industry
Directorate General of Foreign Trade

Office of the Additional Director General of Foreign Trade, Ludhiana
Niryat Bhavan, BSNL Telephone Exchange, E Block, BRS Nagar, Ludhiana

Importer-Exporter Code

This is to certify that Ashwani Imports & Exports is issued an Importer-Exporter Code (IEC) 3017504280 with details as follows -

IEC	3017504280
स्थाई खाता सं.(पैन) /PAN	AIXPK5276B
फर्म का नाम/Firm Name	Ashwani Imports & Exports
निगम की प्रकृति /Nature of Concern	Proprietorship
जारी करने की तारीख/Date of Issue	01/06/2017
पता/Registered Address	302/4D, Adarash Nagar., Model Town Extension, D Block Contact No: 918146274050, Ludhiana, LUDHIANA, PUNJAB, 141002
धारक का नाम / Name of the Signatory	Ashwani Kumar
Director / Partner Details	Refer online at https://dgft.gov.in or scan the QR Code
शाखा/इकाई /Branch Details	Refer online at https://dgft.gov.in or scan the QR Code

Last Modified : 23/08/2022

File Number : LDAIECPAMEND00009523AM23

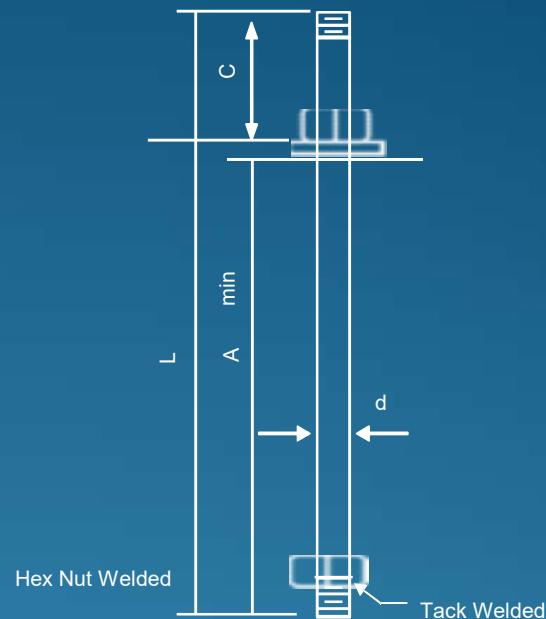
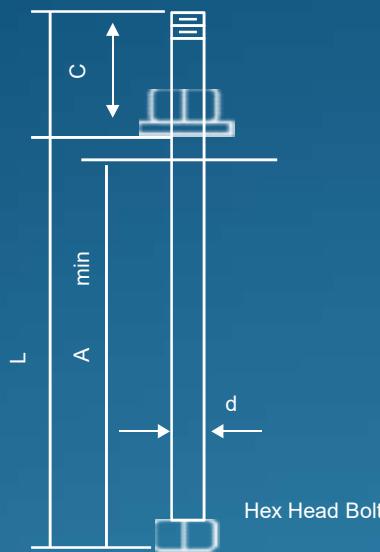


Note : This is a system-generated certificate. Authenticity / Updated details of the IEC can be checked at official DGFT website <https://dgft.gov.in> by entering the IEC and Firm Name under Services > View Any IEC Details. You can also authenticate the certificate by scanning the QR code.



ASHWANI IMPORTS & EXPORTS

ANCHOR BOLT STRAIGHT TYPE



Dia in Inches	Dia in MM	Dimension in MM			Minimum Edge Distance		Capacity	
		A	C	L	MM To Center Bolts		Shear KN	Tension KN
1/2"	12	250	40	355	80	100	4.5	6.8
5/8"	16	250	40	355	85	125	6.8	7.7
3/4"	20	300	50	405	85	150	9.9	10.4
7/8"	22	360	50	460	85	175	14.0	13.1
1"	24	410	65	510	90	175	18.5	15.8
1-1/8"	27	460	75	560	90	200	23.4	15.8
1-1/4"	32	510	75	610	100	225	29.7	18.0
1-3/8"	36	560	90	680	100	250	35.1	
1-1/2"	39	610	90	730	100	275	43.2	
1-5/8"	42	660	100	800	125	300	50.9	
1-3/4"	45	710	115	865	125	325	58.5	
2"	50	810	125	990	150	350	77.4	
2-1/4"	57	910	140	1100	150	400	101.7	
2-1/2"	64	1020	160	1240	175	450	125.6	

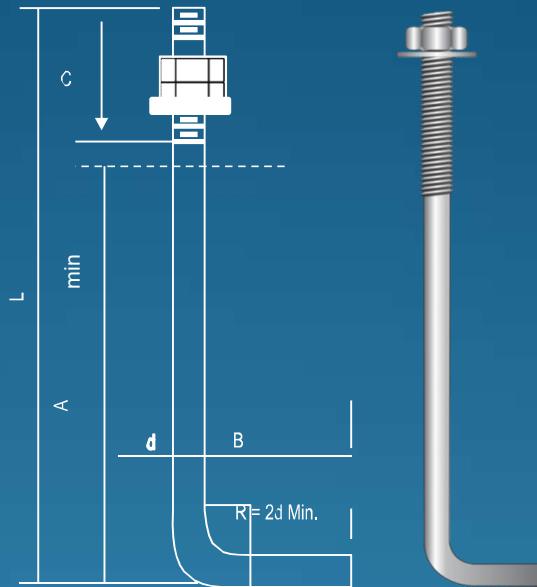
Coating : Mill Finish, Electro Galvanized & Hot Dip Galvanized

Grade : 4.6. ASTM A307-A, A307-B, A36, A193-B7,

AISI SS304, SS316, SS316S31, Grade : 8.8, 10.9



ANCHOR BOLT – L TYPE



Anchor Bolts		Dimension in MM				Minimum Edge Distance		Capacity	
Dia in Inches	Dia in MM	A Minimum Depth	B Bend	C Thread Length	L Total Length	MM To Center Bolts	Tension	Shear KN	Tension KN
1/2"	12	250	100	40	355	80	10	4.5	8.1
5/8"	16	250	100	40	355	85	125	6.8	10.4
3/4"	20	300	150	50	405	85	150	9.9	14.0
7/8"	22	360	150	50	460	85	175	14.0	18.0
1"	24	410	200	65	510	90	175	18.5	22.5
1-1/8"	27	460	200	75	560	90	200	23.4	24.3
1-1/4"	32	510	200	75	610	100	225	29.7	28.8
1-3/8"	36	560	200	90	660	100	250	35.1	33.8
1-1/2"	39	610	200	90	710	100	275	43.2	38.7
1-5/8"	42	660	200	100	760	125	300	50.9	44.1
1-3/4"	45	710	255	115	850	125	325	58.5	46.8
2"	50	810	255	125	950	150	350	77.4	58.5
2-1/4"	57	910	255	140	1070	150	400	101.7	70.7
2-1/2"	64	1020	255	160	1200	175	450	125.6	84.2

Coating : Mill Finish, Electro Galvanized & Hot Dip Galvanized

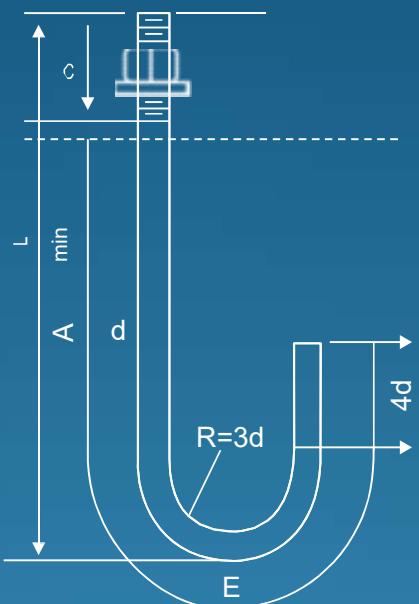
Grade : 4.6. ASTM A307-A, A307-B, A36, A193-B7,

AISI SS304, SS316, SS316L, Grade : 8.8, 10.9



ASHWANI IMPORTS & EXPORTS

ANCHOR BOLT – J TYPE



Anchor Bolts		Dimension in MM			Cut Length		Minimum Edge Distance			Capacity
Dia in Inches	Dia in MM	A	C	E	L	Cut Length	MM To Center Bolts			Tension KN
		Minimum Depth	Thread Length	Hook Length	Total Length		Tension	Shear	Shear KN	
1/2"	12	250	50	190	410	542	80	100	4.5	9.5
5/8"	16	250	60	240	420	595	85	125	6.8	14.9
3/4"	20	300	70	285	485	705	85	150	9.9	22.5
7/8"	22	360	75	335	545	787	85	175	14.0	31.1
1"	24	410	90	380	610	874	90	175	18.5	40.5
1-1/8"	27	460	100	430	675	970	90	200	23.4	51.3
1-1/4"	32	510	115	475	735	1065	100	225	29.7	65.3
1-3/8"	36	560	125	525	800	1163	100	250	35.1	78.3
1-1/2"	39	610	125	570	865	1281	100	275	43.2	95.0
1-5/8"	42	660	145	620	925	1354	125	300	50.9	108.5
1-3/4"	45	710	150	665	990	1452	125	325	58.5	128.3
2"	50	810	180	760	1120	1648	150	350	77.4	168.8
2-1/4"	57	910	200	855	1245	1861	150	400	101.7	212.0
2-1/2"	64	1020	220	955	1370	2074	175	450	125.6	258.8

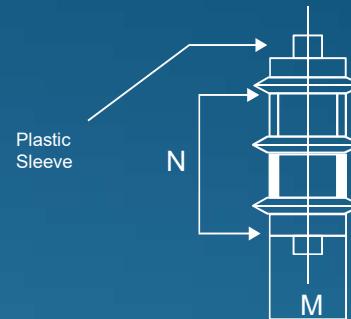
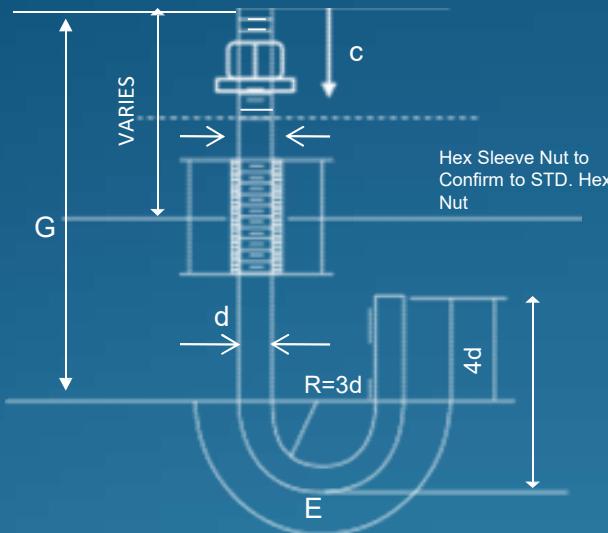
Coating : Mill Finish, Electro Galvanized & Hot Dip Galvanized

Grade : 4.6. ASTM A307-A, A307-B, A36, A193-B7,

AISI SS304, SS316, SS316L, Grade : 8.8, 10.9



ANCHOR BOLT – J TYPE WITH SLEEVE



DETAIL OF SLEEVE

PLASTIC ANCHOR BOLT SLEEVES SHALL BE USED WHERE REQUIRED WITH SLEEVE SHALL BE CUT OFF TO MAINTAIN EMBEDMENT LENGTH 'N' WHERE NO SLEEVE IS USED EMBEDMENT LENGTH FOR THIS 1 & 2 IS A-N

Anchor Bolts		Dimension in MM		Length Sleeve			Minimum Edge Distance		Capacity		Sleeves			
Dia in Inches	Dia in MM	A	C	E	F	G	H	Cut Length	MM To Center Bolts		Shear	Tension	M	N
		Minimum Depth	Thread Length	Hook Length	Nut on Type 4	Total Length			Tension	Shear				
3/4"	20	300	70	285	50	280	355	575	85	150	9.9	22.5	50	100
7/8"	22	360	75	335	55	325	415	657	85	175	14.0	31.3	50	100
1"	24	410	90	380	65	375	475	740	90	175	18.5	40.5	75	100
1-1/8"	27	460	100	430	75	420	535	832	90	200	23.4	51.3	75	150
1-1/4"	32	510	115	475	85	465	595	926	100	225	29.7	65.3	75	150
1-3/8"	36	560	125	525	90	515	655	1018	100	250	35.1	78.3	75	150
1-1/2"	39	610	125	570	95	560	715	1111	100	275	43.2	95.0	100	150
1-5/8"	42	660	145	620	110	605	770	1199	125	300	50.9	108.5	100	150
1-3/4"	45	710	150	665	120	650	830	1292	125	325	58.5	128.3	100	200
2"	50	810	180	760	125	750	955	1484	150	350	77.4	168.8	100	200
2-1/4"	57	910	200	855	145	840	1070	1686	150	400	101.7	212.0	100	200
2-1/2"	64	1020	220	955	160	955	1190	1894	175	450	125.8	258.8	150	200

Coating : Mill Finish, Electro Galvanized & Hot Dip Galvanized

Grade : 4.6. ASTM A307-A, A307-B, A36, A193-B7,

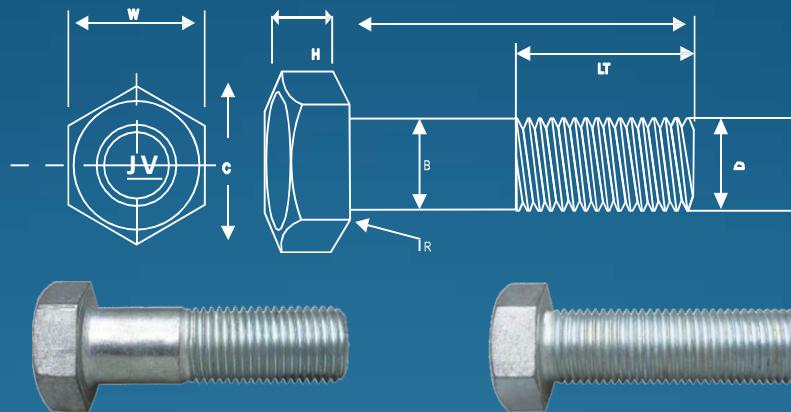
AISI SS304, SS316, SS316S31, Grade : 8.8, 10.9



ASHWANI IMPORTS & EXPORTS

HEXAGON HEAD BOLT / SCREW

DIN 931/933 (MM THREAD)



DIMENSIONS :

Note :

- The bolts & Screw will generally confirm to ISO 4014, ISO 898-1 and DIN 931/933.
- Threads will confirm to class 6g of ISO 965/2, Coarse Series.
- Material High Grade Carbon / Alloy Steel.
- Heat Treatment : Property Class 8.8 or 10.9*
- Thread Length LT. LT1 for L<125 LT2 for L>125 to 200 LT3 for L>200.
- Screw Length equal to or shorter than listed in column 'LFT' will be fully threaded.
- All dimensions are in millimeters.

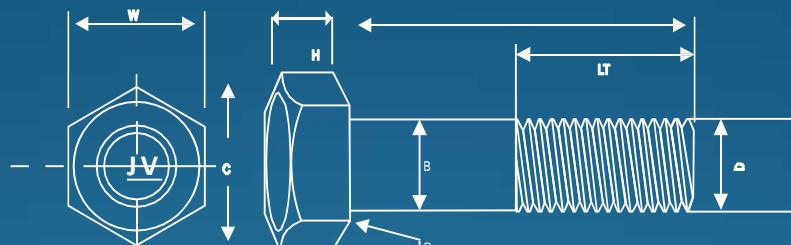
Normal Thread Size	Pitch	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread				Length Range L
							LT 1	LT 2	LT 3	LFT	
M06	1.0	10.0	11.05	6.0	4.0	0.25	18	-	-	FT	10-150
M08	1.25	13.0	14.98	8.0	5.3	0.4	22	28	-	FT	12-150
M10	1.5	17.0-16.0	18.90-17.80	10.0	6.4	0.4	26	32	45	FT	16.250
M12	1.75	19.0-18.0	21.10-20.03	12.0	7.5	0.6	30	36	49	FT	20-250
M14	2.0	22.0-21.0	24.49-23.25	14.0	8.8	0.6	34	40	53	FT	25-200
M16	2.0	24.0	26.75	16.0	10.0	0.6	38	44	57	FT	25-400
M18	2.5	27.0	30.14	18.1	11.5	0.6	42	48	61	FT	35-200
M20	2.5	30.0	33.53	20.0	12.5	0.8	46	52	65	FT	30-400
M22	2.5	32.0-34.0	35.72-37.72	22.0	14.0	0.8	50	56	69	FT	40-200
M24	3.0	36.0	39.98	24.0	15.0	0.8	54	60	73	FT	50-450
M27	3.0	41.0	45.20	27.0	17.0	1.0	60	66	79	FT	60-300
M30	3.5	46.0	50.85	30.0	18.7	1.0	66	72	85	FT	60-400
M33	3.5	50.0	55.37	33.0	21.0	1.0	72	78	91	FT	75-500
M36	4.0	55.0	60.79	36.0	22.5	1.0	78	84	97	FT	80-500
M39	4.0	60.0	66.44	39.0	25.0	1.0	84	90	103	FT	80-500
M42	4.5	65.0	72.02	42.0	26.0	1.2	90	96	109	FT	90-500
M45	4.5	69.5	77.00	45.0	27.8	1.2	90	96	109	FT	90-500

Coating : Electro Galvanized, Cadmium Plated, Black & Hot Dip Galvanized

Grade : 4.8, 6.8, 8.8, 10.9, 12.9, AISI SS304, SS316, SS316S31, Grade : 8.8, 10.9



HEXAGON HEAD BOLT / SCREW DIN 931/933 (UNC THREAD)



DIMENSIONS :

Note :

1. The bolts & Screw will generally confirm to ANSI / ASME B18.2.1.
2. Threads will confirm to class 2A of ANSI B1.1 Coarse Series.
3. Material : Low Carbon Steel.
4. Heat Treatment : Property Class 8.8 or 10.9*
5. Bolt Length equal to or shorter than listed in column 'LFT' will be fully threaded.
6. All dimensions are in inches.

Normal Thread Size	TPI UNC	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread			Length Range
							L < 6"	L > 6"	LFT	
1/4"	20	0.375	0.433	0.259	3/16"	0.01	1.00"	1.25"	FT	1/2"-6"
5/16"	18	0.468	0.542	0.323	7/32"	0.01	1.00"	1.25"	FT	1/2"-6"
3/8"	16	0.562	0.650	0.388	1/4"	0.01	1-1/2"	1-1/4"	FT	1/2"-6"
1/2"	13	0.750	0.866	0.515	11/32"	0.01	1-1/4"	1-1/2"	FT	3/4"-12"
5/8"	11	0.938	1.083	0.642	27/64"	0.02	1-1/2"	2"	FT	1"-12"
3/4"	10	1.125	1.299	0.768	1/2"	0.02	1-3/4"	2-1/4"	FT	1-1/2"-12"
7/8"	9	1.312	1.516	0.895	37/64"	0.02	2"	2-1/2"	FT	1-1/2"-12"
1"	8	1.500	1.732	1.022	43/64"	0.02	2-1/4"	3"	FT	1-1/2"-12"
1-1/8"	7	1.688	1.949	1.149	3/4"	0.03	2-1/2"	3-1/4"	FT	2"-12"
1-1/4"	7	1.875	2.165	1.277	27/32"	0.03	2-3/4"	4"	FT	2"-12"
1-3/8"	6	2.062	2.382	1.404	29/32"	0.03	3"	4-1/2"	FT	2-1/2"-12"
1-1/2"	6	2.250	2.598	1.531	1"	0.03	3-1/4"	5"	FT	2-1/2"-12"

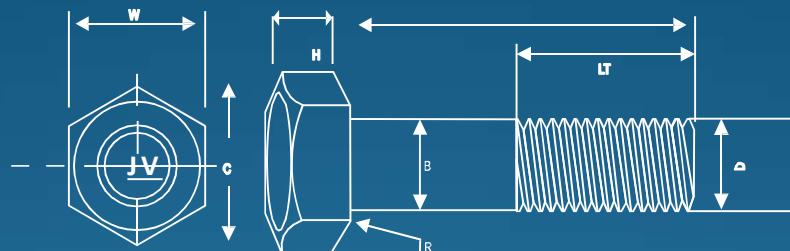
Coating : Electro Galvanized, Cadmium Plated, Black & Hot Dip Galvanized

Grade : 4.8, 5.8, A307-A, A307-B, SS304, SS316



ASHWANI IMPORTS & EXPORTS

HEXAGON HEAD BOLT / SCREW ASTM A307-'A'



DIMENSIONS :

Note :

1. The bolts & Screw will generally conform to ANSI / ASME B18.2.1.
2. Threads will conform to class 2A of ANSI B1.1 Coarse Series.
3. Material : Low Carbon Steel.
4. Bolt Length equal to or shorter than listed in column 'LFT' will be fully threaded.
5. All dimensions are in inches.

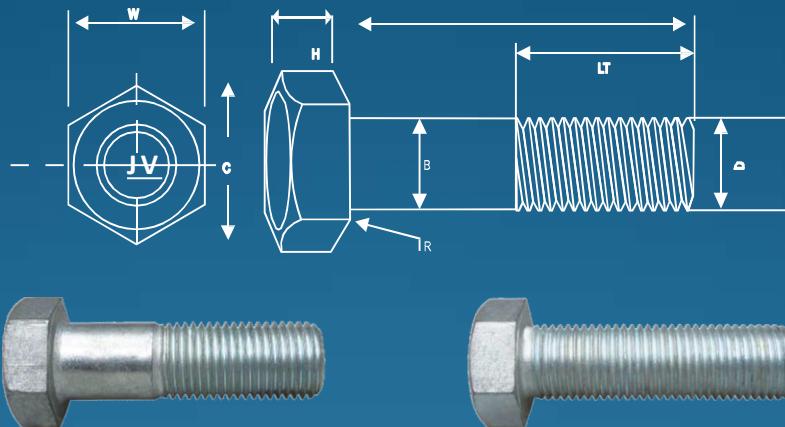
Normal Thread Size	TPI UNC	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread			Length Range
							L < 6"	L > 6"	LFT	
1/4"	20	0.375	0.433	0.259	3/16"	0.01	1	1.25	FT	1/2"-6"
5/16"	18	0.468	0.542	0.323	7/32"	0.01	1	1.25	FT	1/2"-6"
3/8"	16	0.562	0.650	0.388	1/4"	0.01	1.00	1.25	FT	1/2"-8"
1/2"	13	0.750	0.866	0.515	11/32"	0.01	1.25	1.50	FT	3/4"-12"
5/8"	11	0.938	1.083	0.642	27/64"	0.02	1.50	1.75	FT	1"-12"
3/4"	10	1.125	1.299	0.768	1/2"	0.02	1.75	2.00	FT	1-1/2"-12"
7/8"	9	1.312	1.516	0.895	37/64"	0.02	2.00	2.25	FT	1-1/2"-12"
1"	8	1.500	1.732	1.022	43/64"	0.02	2.25	2.50	FT	1-1/2"-12"
1-1/8"	7	1.688	1.949	1.149	3/4"	0.03	2.50	2.75	FT	2"-12"
1-1/4"	7	1.875	2.165	1.277	27/32"	0.03	2.75	3.00	FT	2"-12"
1-3/8"	6	2.062	2.382	1.404	29/32"	0.03	3.00	3.25	FT	2-1/2"-12"
1-1/2"	6	2.250	2.598	1.531	1"	0.03	3.25	3.50	FT	2-1/2"-12"

Coating : Electro Galvanized, Cadmium Plated, Black & Hot Dip Galvanized

Grade : ASTM A307-A



HEXAGON HEAD BOLT / SCREW ASTM A307-'B'



DIMENSIONS :

Note : The bolts & Screw will generally confirm to ANSI / ASME B18.2.1.

2. Threads will confirm to class 2A of ANSI B1.1 Coarse Series.
3. Material : Low Carbon Steel.
4. Bolt Length equal to or shorter than listed in column 'LFT' will be fully threaded.
5. All dimensions are in inches.

Normal Thread Size	TPI UNC	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread			Length Range
							L < 6"	L > 6"	LFT	
3/8"	16	0.656	0.757	0.388	1/4"	0.01	1.00	1.25	FT	1/2"-8"
1/2"	13	0.875	1.010	0.515	11/32"	0.01	1.25	1.50	FT	3/4"-12"
5/8"	11	1.062	1.227	0.642	27/64"	0.02	1.50	1.75	FT	1"-12"
3/4"	10	1.250	1.443	0.768	1/2"	0.02	1.75	2.00	FT	1-1/2"-12"
7/8"	9	1.438	1.660	0.895	37/64"	0.02	2.00	2.25	FT	1-1/2"-12"
1"	8	1.625	1.876	1.022	43/64"	0.03	2.25	2.50	FT	1-1/2"-12"
1-1/8"	7	1.812	2.093	1.149	3/4"	0.03	2.50	2.75	FT	2"-16"
1-1/4"	7	2.000	2.309	1.277	27/32"	0.03	2.75	3.00	FT	2"-16"
1-3/8"	6	2.188	2.526	1.404	29/32"	0.03	3.00	3.25	FT	2-1/2"-16"
1-1/2"	6	2.375	2.742	1.531	1"	0.03	3.25	3.50	FT	2-12"-16"
1-5/8"	5	2.618	3.022	1.680	1.10"	0.03	3.50	3.75	FT	3"-16"
1-3/4"	5	2.805	3.238	1.800	1.18"	0.04	3.50	3.75	FT	3-1/2"-16"
1-7/8"	4.5	3.000	3.450	1.928	1.26"	0.04	4.00	4.25	FT	4"-16"
2"	4.5	3.160	3.650	2.041	1.33"	0.04	4.25	4.50	FT	4-1/2"-16"
2-1/4"	4.5	3.550	4.100	2.100	1.495"	0.04	5.00	5.25	FT	5"-16"
2-1/2"	4.0	3.950	4.570	2.234	1.66"	0.04	5.50	5.75	FT	5-1/2"-16"

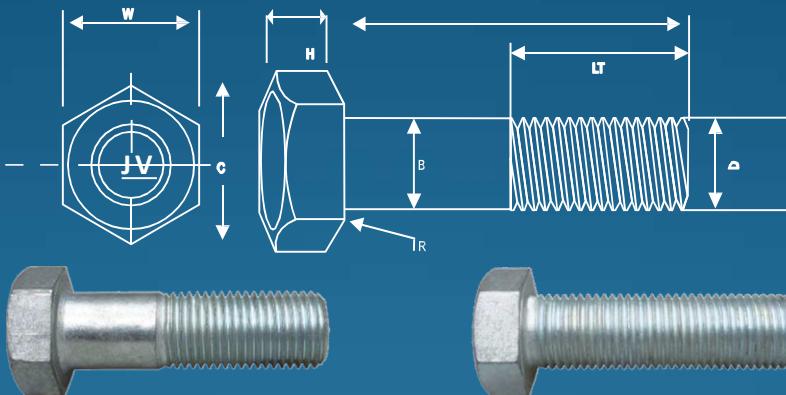
Coating : Electro Galvanized, Cadmium Plated, Black & Hot Dip Galvanized

Grade : ASTM A307-"B"



ASHWANI IMPORTS & EXPORTS

HEAVY HEXAGON HEAD BOLT / SCREW ASTM A325M



DIMENSIONS :

Note :

1. The bolts will generally conform to ANSI / ASME B18.2.3.7M.
2. Threads will conform to class 6g of ANSI B.1.1.3M Coarse Series.
3. Material : High Carbon Steel / Alloy Steel.
4. Heat Treatment as per ASTM A325M or ASTM F568m Class 8.8
5. Thread Length LT. LT1 for L<100 LT2 for L>100
6. All dimensions are in millimeters.



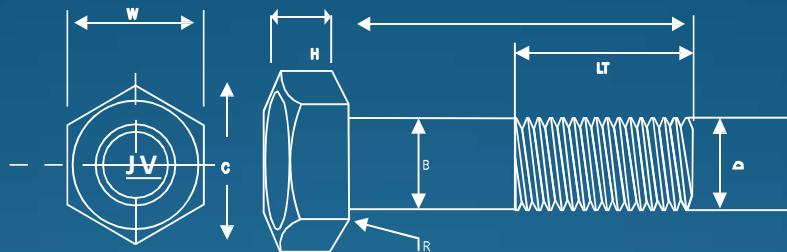
Thread Size	TPI UNC	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread			Length Range
							LT-1	LT-2	LFT	
M 10	1.50	18.00	20.00	9.50	6.50	0.50	25	25	FT	25-100
M 12	1.75	22.00	25.40	12.70	8.00	0.60	25	25	FT	25-150
M 16	2.00	27.00	31.88	16.70	10.00	0.60	31	38	FT	30-300
M 20	2.50	34.00	39.26	20.84	12.50	0.80	36	43	FT	35-300
M 22	2.50	36.00	41.57	22.84	14.00	0.80	38	45	FT	40-300
M 24	3.00	41.00	47.34	24.84	15.00	1.00	41	48	FT	40-300
M 27	3.00	46.00	52.12	27.84	17.00	1.20	44	51	FT	60-300
M 30	3.50	50.00	57.74	30.84	18.70	1.20	49	56	FT	60-400
M 36	4.00	60.00	69.28	37.00	22.50	1.50	56	63	FT	70-300
M 39	4.00	65.00	75.00	39.50	24.37	1.62	61	68	FT	75-300

Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : ASTM A325M



HEAVY HEXAGON HEAD STRUCTURAL BOLT ASTM A490



DIMENSIONS :

Note :

1. The bolts will generally conform to ANSI / ASME B18.2.1
2. Threads will conform to class 2A of ANSI B.1.1 Coarse Series.
3. Material : Alloy Steel.
4. Heat Treatment as per ASTM A490-Type-1.
5. All dimensions are in Inches.

Normal Thread Size	TPI UNC	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread		Length Range
							LT	Length	
1/2"	13	0.875	1.010	0.515	5/16"	0.009"	1.00"		1-1/2"-4"
5/8"	11	1.062	1.227	0.642	25/64"	0.021"	1.25"		1-1/2"-8"
3/4"	10	1.250	1.443	0.768	15/32"	0.021"	1.38"		1-1/2"-8"
7/8"	9	1.438	1.660	0.895	35/64"	0.031"	1.50"		1-1/2"-8"
1"	8	1.625	1.876	1.022	39/64"	0.062"	1.75"		1-1/2"-8"
1-1/8"	8	1.812	2.093	1.149	11/16"	0.062"	2.00"		2"-8"
1-1/4"	8	2.000	2.309	1.277	25/32"	0.062"	2.00"		2"-8"
1-3/8"	8	2.188	2.526	1.404	27/32"	0.062"	2.00"		2-1/2"-8"
1-1/2"	8	2.375	2.742	1.531	25/32"	0.062"	2.00"		2-1/2"-8"

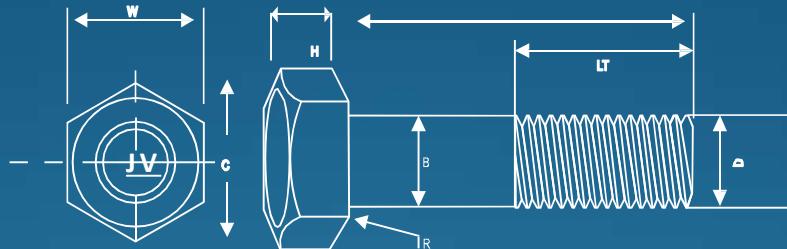
Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : ASTM A490



ASHWANI IMPORTS & EXPORTS

HEAVY HEXAGON HEAD STRUCTUAL BOLT ASTM A490M



DIMENSIONS :



Note :

1. The bolts will generally conform to ANSI / ASME B18.2.3.7M.
2. Threads will conform to class 6g of ANSI B.1.1.3M Coarse Series.
3. Material : Alloy Steel.
4. Heat Treatment as per ASTM A490M or ASTM F568m Class 8.10.9
5. Thread Length LT. LT1 for L<100 LT2 for L>100
6. All dimensions are in millimeters.

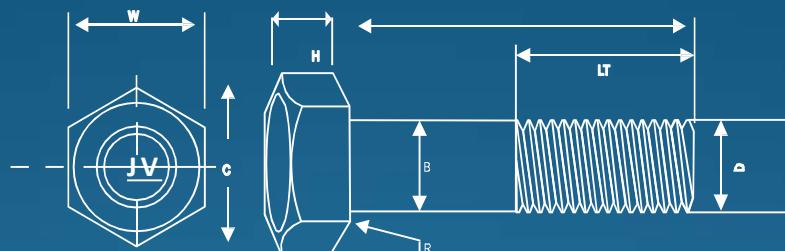
Normal Thread Size	Pitch	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread		Length Range L
							LT-1	LT-2	
M 12	1.75	22.00	25.40	12.70	8.00	0.60	25	25	30-100
M 16	2.00	27.00	31.88	16.70	10.0	0.60	31	38	30-300
M 20	2.50	34.00	39.26	20.84	12.5	0.80	36	43	35-300
M 22	2.50	36.00	41.57	22.84	14.0	0.80	38	45	50-200
M 24	3.00	41.00	47.34	24.84	15.0	1.00	41	48	40-200
M 27	3.00	46.00	52.12	27.84	17.0	1.20	44	51	60-300
M 30	3.50	50.00	57.74	30.84	18.7	1.20	49	56	60-400
M 36	4.00	60.00	69.28	37.00	22.50	1.50	56	63	70-300
M 39	4.00	65.00	75.00	39.5	24.37	1.62	61	68	75-300

Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : ASTM A490M



HIGH STRENGTH HEXAGON HEAD BOLT DIN 6914



DIMENSIONS :

Note :

1. The bolts will generally confirm DIN 6914.
2. Threads will confirm to class 6g of DIN 13 Coarse Series.
3. Material : High Grade Carbon / Alloy Steel.
4. Heat Treatment : To achieve mechanical properties of Class 10.9
5. Thread Length LT, LT1 & LT2.
6. All dimensions are in millimeters.

Normal Thread Size	Pitch	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread		Length Range L
							LT-1	LT-2	
M 12	1.75	22.00	23.91	12.70	8.00	1.20	25	25	30-200
M 16	2.00	27.00	29.56	16.70	10.0	1.20	31	38	35-200
M 20	2.50	34.00	35.03	20.84	12.5	1.50	36	43	40-300
M 22	2.50	36.00	39.55	22.84	14.0	1.50	38	45	50-200
M 24	3.00	41.00	45.20	24.84	15.0	1.50	41	48	50-300
M 27	3.00	46.00	50.85	27.84	17.0	2.00	44	51	60-200
M 30	3.50	50.00	55.37	30.84	18.7	2.00	49	56	60-300
M 36	4.00	60.00	66.44	37.00	22.50	2.00	56	63	70-300
M 39	4.00	65.00	75.00	39.5	24.37	1.62	61	68	75-300

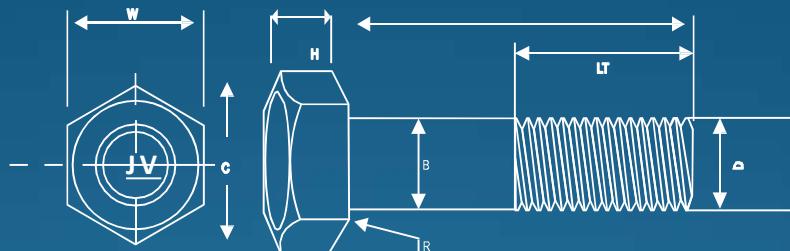
Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : DIN 6914



ASHWANI IMPORTS & EXPORTS

HEXAGON HEAD BOLT / SCREWS BS 4190



DIMENSIONS :

Note :

1. The bolts AND Screws will generally conform to BS 4190.
2. Threads will conform to Class 6g BS 4190 Coarse Series.
3. Material : Carbon / Alloy Steel.
4. Thread Length LT. LT1 for L<125
5. LT2 for L>125 to 200
6. LT3 for L>200
7. In Bolts / Nut assembly, tightening should be done by rotation of nuts.
8. All dimensions are in millimeters.

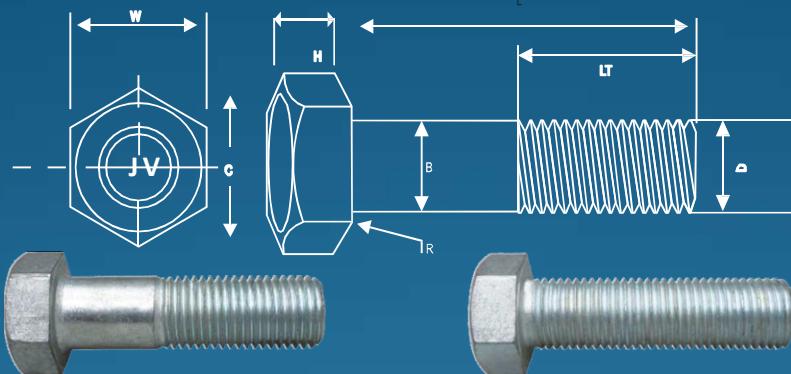
Normal Thread Size	Pitch	W Max.	C Min.	B Max.	H Nom.	R Min.	LT-1	Length of Thread			Length Range L
								LT-2	LT-3	LFT	
M06	1.00	10.0	11.05	6.0	4.0	0.25	18	-	-	25	10-150
M08	1.25	13.0	14.98	8.0	5.3	0.4	22	28	-	30	12-150
M10	1.5	17.0-16.0	18.90-17.80	10.0	6.4	0.4	26	32	45	35	16-250
M12	1.75	19.0-18.0	21.10-20.03	12.0	7.5	0.6	30	36	49	40	20-250
M16	2.0	24.0	26.75	16.0	10.0	0.6	38	44	57	50	25-400
M20	2.5	30.0	33.53	20.0	12.5	0.8	46	52	65	60	30-400
M22	2.5	32.0-34.0	35.72-37.72	22.0	14.0	0.8	50	56	69	65	40-200
M24	3.0	36.0	39.98	24.0	15.0	0.8	54	60	73	75	50-450
M27	3.0	41.0	45.20	27.0	17.0	1.0	60	66	79	85	60-300
M30	3.5	46.0	50.85	30.0	18.7	1.0	66	72	85	85	60-400
M33	3.5	50.0	55.37	33.0	21.0	1.0	72	78	91	95	75-500
M36	4.0	55.0	60.79	36.0	22.5	1.0	78	84	97	100	80-500
M39	4.0	60.0	66.44	39.0	25.0	1.0	84	90	103	110	80-500
M42	4.5	65.0	72.02	42.0	26.0	1.2	90	96	109	120	90-500

Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : BS 4190



HEXAGON HEAD BOLT / SCREWS BS 3692



DIMENSIONS :

Note :

1. The bolts and Screws will generally confirm to BS 3692.
2. Threads will confirm to Class 6g BS 3643 Coarse Series.
3. Material : Carbon / Alloy Steel.
4. Thread Length LT.
 - LT1 for L<125
 - LT2 for L>125 to 200
 - LT3 for L>200
5. In Bolts / Nut assembly, tightening should be done by rotation of nuts.
6. All dimensions are in millimeters.

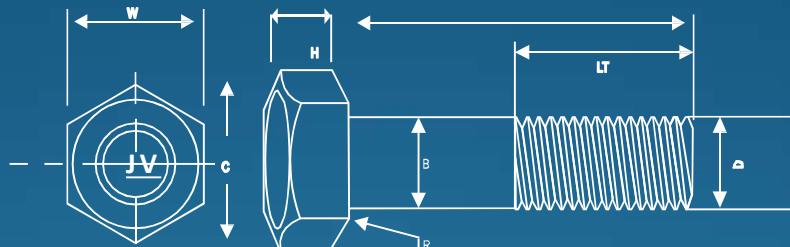
Normal Thread Size	Pitch	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread				Length Range L
							LT-1	LT-2	LT-3	LFT	
M 06	1.00	10.0	11.05	6.0	4.0	0.25	18	-	-	25	10-150
M 08	1.25	13.0	14.98	8.0	5.3	0.4	22	28	-	30	12-150
M 10	1.50	17.0-16.0	18.90-17.80	10.0	6.4	0.4	26	32	45	35	16-250
M 12	1.75	19.0-18.0	21.10-20.03	12.0	7.5	0.6	30	36	49	40	20-250
M 14	2.00	22.0-21.0	24.49-23.25	14.0	8.8	0.6	34	40	53	45	25-200
M 16	2.00	24.0	26.75	16.0	10.0	0.6	38	44	57	50	25-400
M 18	2.50	27.0	30.14	18.0	11.5	0.6	42	48	61	60	35-200
M 20	2.50	30.0	33.53	20.0	12.5	0.8	46	52	65	60	30-400
M 22	2.50	32.0-34.0	35.72-35.72	22.0	14.0	0.8	50	56	69	65	40-200
M 24	3.00	36.0	39.98	24.0	15.0	0.8	54	60	73	75	50-450
M 27	3.00	41.0	45.20	27.0	17.0	1.0	60	66	79	85	60-300
M 30	3.50	46.0	50.85	30.0	18.7	1.0	66	72	85	85	60-400
M 33	3.50	50.0	55.37	33.0	21.0	1.0	72	78	91	95	75-500
M 36	4.00	55.0	60.79	36.0	22.5	1.0	78	84	97	100	80-500
M 39	4.00	60.0	66.44	39.0	25.0	1.0	84	90	103	110	80-500
M 42	4.50	65.0	72.02	42.0	26.0	1.2	90	96	109	120	90-500

Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : BS 3692

HIGH STRENGTH HEXAGON HEAD BOLT

DIN 7990



DIMENSIONS :



Note :

1. The bolts and Screws will generally conform to DIN 7990.
2. Threads will conform to Class 6g of DIN 13 Coarse Series.
3. Material : Carbon / Alloy Steel.
4. Thread Length LT.
5. Heat Treatment : To achieve Mechanical properties of Class 4.6, 5.8, 6.8, 8.8, 10.9.
6. All dimensions are in millimeters.

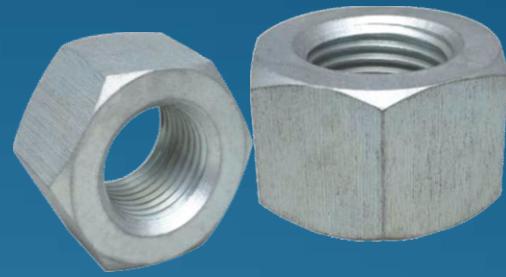
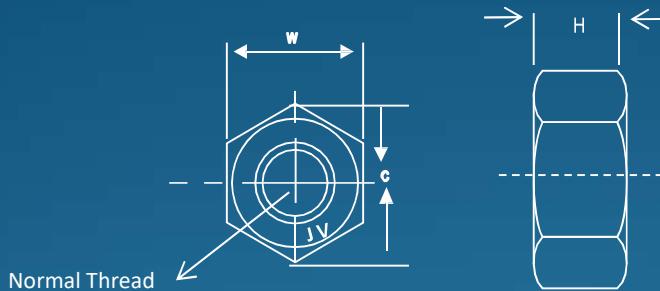
Normal Thread Size	Pitch	W Max.	C Min.	B Max.	H Nom.	R Min.	Length of Thread		Length Range L
							LT-1	LT-2	
M 12	1.75	19.0	21.10	12.70	8.00	0.60	17.75	20.00	25-120
M 16	2.00	24.0	26.16	16.70	10.0	0.60	21.00	23.00	30-150
M 20	2.50	30.0	32.95	20.84	12.5	0.80	23.50	26.00	35-200
M 22	2.50	32.0	35.03	22.84	14.0	0.80	25.50	28.00	45-200
M 24	3.00	36.0	39.55	24.84	15.0	0.80	26.00	28.00	50-200
M 27	3.00	41.0	45.20	27.84	17.0	1.00	29.00	31.00	70-200
M 30	3.50	46.0	50.85	30.84	19.0	1.00	30.50	32.00	80-300

Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : DIN 7990



HEXGON NUTS ISO 934 / DIN 555



Dimensions :

Note :

1. The Nut will generally conform to DIN 934, DIN 555, BS3692
2. Thread will conform to class 6H of DIN 13 Coarse Series.
3. Heat Treatment to achieve mechanical properties to property Class 8 or 10
4. Nuts of property Class 8 are used with bolts of property Class 8.8.
5. Nuts of property Class 10 are used with bolts of property Class 10.9.
(In general nuts of a higher property class can replace nut of lower property class in a joint)
6. In Bolts/Nuts assembly tightening should be done by rotation of nuts.
7. All dimensions are in millimeters.

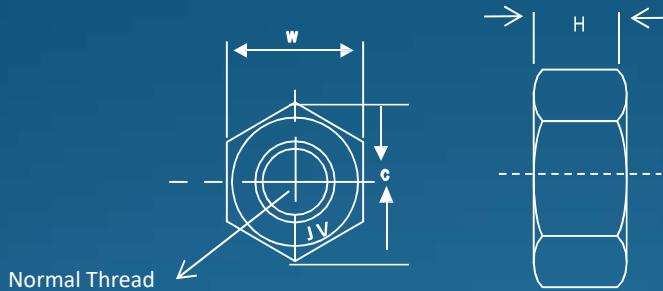
Thread Size	Pitch	W Max.	C Max.	H Norm.
M06	1.00	10.00	11.05	5.00
M08	1.25	13.00	14.38	6.50
M10	1.50	17.00	18.90	8.00
M12	1.75	19.00	21.00	10.00
M14	2.00	22.00	24.49	11.00
M16	2.00	24.00	26.75	13.00
M18	2.50	27.00	29.56	15.00
M20	2.50	30.00	32.95	16.00
M22	2.50	32.00	35.03	18.00
M24	3.00	36.00	39.55	19.00
M27	3.00	41.00	45.20	22.00
M30	3.50	46.00	50.85	24.00
M33	3.50	50.00	55.37	26.00
M36	4.00	55.00	60.79	29.00
M39	4.00	60.00	66.44	31.00
M42	4.50	65.00	71.30	34.00
M45	4.50	69.64	76.25	36.40
M48	5.00	74.28	81.40	38.75
M52	5.00	80.00	88.00	51.00
M56	5.50	86.50	96.00	54.75
M60	5.50	92.85	101.50	58.50
M64	6.00	99.00	108.00	62.25

Coating : Electro Galvanized, Black , Hot Dip Galvanized, Cadmium Plate

Grade : 4, 6, 8, 10, SS304, SS316



HEAVY HEXGON NUTS ASTM A563 / GR A&C

***Dimensions in Inch series UNC/ UNF:*****Note :**

1. The Nut will generally confirm to ANSI 18.2.2 heavy Hex Nuts.
2. Thread will confirm to class 2B of ANSI B1.1.
3. In Bolts/Nuts assembly tightening should be done by rotation of nuts.
Torque values as recommended in tables for bolt.
4. All dimensions are in inches.

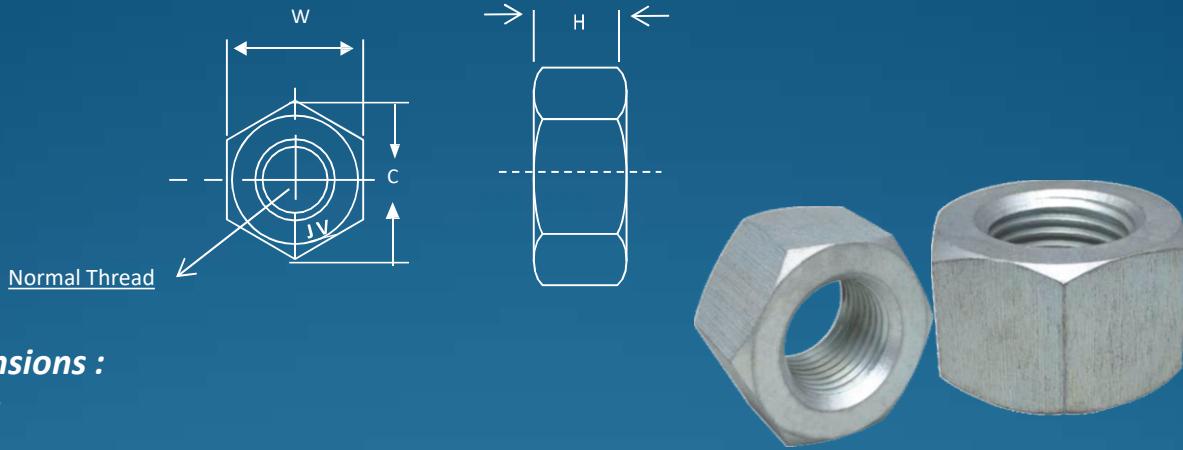
Thread Size	PTI UNC/UN	W Max.	C Max.	H Norm.
3/8"	16	0.656"	0.757"	0.375"
1/2"	13	0.875"	1.010"	0.484"
9/16"	12	0.938"	1.083"	0.547"
5/8"	11	1.062"	1.227"	0.609"
3/4"	10	1.250"	1.443"	0.734"
7/8"	9	1.238"	1.660"	0.859"
1"	8	1.625"	1.876"	0.984"
1-1/8"	7	1.812"	2.093"	1.109"
1-1/4"	7	2.000"	2.309"	1.219"
1-3/8"	6	2.188"	2.526"	1.344"
1-1/2"	6	2.375"	2.742"	1.469"
1-5/8"	5	2.562"	2.959"	1.594"
1-3/4"	5	2.750"	3.175"	1.719"
1-7/8"	4.5	2.938"	3.392"	1.844"
2"	4.5	3.125"	3.608"	1.969"
2-1/4"	4	3.500"	4.041"	2.203"
2-1/2"	4	3.875"	4.474"	2.453"
2-3/4"	4	4.250"	4.907"	2.703"
3"	4	4.625"	5.340"	2.953"
3-1/4"	4	5.000"	5.774"	3.188"
3-1/2"	4	5.375"	6.207"	3.438"
3-3/4"	4	5.755"	6.650"	3.683"
4"	4	6.142"	7.093"	3.930"

Coating : Electro Galvanized, Black & Hot Dip

Grade : ASTM A563, GR A & C



HEAVY HEXGON NUTS A563M (10S)



Dimensions :

Note :

1. The Nut will generally confirm to ANSI B18.2.4.6M metric Heavy Hex Nuts.
2. Thread will confirm to class 6H of ANSI B1.13M for Coarse Series.
3. Heat Treatment to achieve mechanical properties to property Class 8S or 10S of A563M.
4. Nuts of property Class 8S are used with bolts of ASTM A325M Type-1 and 2 (Con Coated).
5. Nuts of property Class 10S are used with bolts of ASTM A325M Type-1 and 2 (Zinc Coated).
(In general nuts of a higher property class can replace nut of lower property class in a joint)
6. In Bolts/Nuts assembly tightening should be done by rotation of nuts.
7. Sizes in brackets are non preferred standards.
8. All dimensions are in millimeters.

Nominal Nut Diameter and Thread Pitch	Width Across Flats, W		Width Across Flats, C		Thickness H		Bearing Face Diameter, Dw, Min	Washer Face Thickness, d	
	Max	Min	Max	Min	Max	Min	Min	Max	Min
M12 x 1.75	21	20.16	24.25	22.78	12.3	11.9	19.2	0.8	0.4
M14 x 2	24	23.16	27.71	26.17	14.3	13.6	22	0.8	0.4
M16 x 2	27	26.16	31.18	29.56	17.1	16.4	24.9	0.8	0.4
M20 x 2.5	34	33	39.26	37.29	20.7	19.4	31.4	0.8	0.4
M22 x 2.5	36	35	41.57	39.55	23.6	22.3	33.3	0.8	0.4
M24 x 3	41	40	47.34	45.2	24.2	22.9	38	0.8	0.4
M27 x 3	46	45	53.12	50.85	27.6	26.3	42.8	0.8	0.4
M30 x 3.5	50	49	57.74	55.37	30.7	29.1	46.6	0.8	0.4
M36 x 4	60	58.8	69.28	66.44	36.6	35	55.9	0.8	0.4
M42 x 4.5	70	67.9	80.83	77.41	42	40.4	64.5	1	0.5
M48 x 5	80	77.6	92.38	88.46	48	46.4	73.7	1	0.5
M56 x 5.5	90	87.2	103.92	99.41	56	54.1	82.8	1	0.5
M64 x 6	100	96.8	115.47	110.35	64	62.1	92	1	0.5
M72 x 6	110	106.4	127.02	121.3	72	70	101.1	1.2	0.6
M80 x 6	120	116	138.56	132.24	80	78.1	110.2	1.2	0.6
M90 x 5.6	135	130.5	155.88	148.77	90	87.8	124	1.2	0.6
M100 x 6	150	145	173.21	165.3	100	97.8	137.8	1.2	0.6

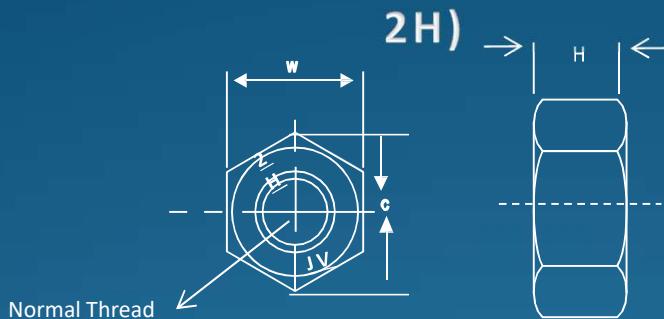
This size with width across flat of 15mm is not standard. Unless specifically ordered, M10 hex jam nuts with 16 mm width across flats will be furnished

Coating : Electro Galvanized, Black , Hot Dip Galvanized, Cadmium Plate

Grade : ASTM A563 GR 10S



HEAVY HEXGON NUTS A194 GR



Dimensions inches series UNC/UNF :

Note :

1. The Nut will generally confirm to ANSI / ASME B18.2.2 Heavy Hex Nuts.
2. Thread will confirm to class 2B of ANSI B1.1.
3. Heat Treatment to achieve mechanical properties of Grade 2H, 4 and 7 which confirm the requirements of ASTM A194.
4. In Bolts / Nut assembly tightening should be done by rotation of nuts.

Torque values are recommended in tables for bolts.

6. All dimensions are in Inches.

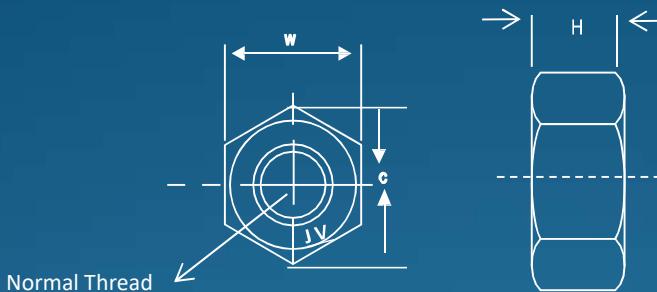
Thread Size	PTI UNC/UN	W Max.	C Max.	H Norm.
3/8"	16	0.656"	0.757"	0.375
1/2"	13	0.875"	1.010"	0.484
9/16"	12	0.938"	1.083"	0.547
5/8"	11	1.062"	1.227"	0.609
3/4"	10	1.150"	1.443"	0.734
7/8"	9	1.238"	1.660"	0.859
1"	8	1.625"	1.876"	0.984
1-1/8"	8	1.812"	2.093"	1.109
1-1/4"	8	2.000"	2.309"	1.219
1-3/8"	8	2.188"	2.526"	1.344
1-1/2"	8	2.375"	2.742"	1.469
1-5/8"	8	2.562"	2.959"	1.594
1-3/4"	8	2.750"	3.175"	1.719
1-7/8"	8	2.938"	3.392"	1.844
2"	8	3.125"	3.608"	1.969
2-1/4"	8	3.500"	4.041"	2.203
2-1/2"	8	3.875"	4.474"	2.453
2-3/4"	8	4.250"	4.907"	2.703
3"	8	4.625"	5.340"	2.953
3-1/4"	8	5.000"	5.774"	3.188
3-1/2"	8	5.375"	6.207"	3.438
3-3/4"	8	5.755"	6.650"	3.683
4"	8	6.142"	7.093"	3.930

Coating : Electro Galvanized, Black & Hot Dip Galvanized

Grade : 2H, 2HM, GR4, GR7, B8, B8M



HIGH STRENGTH HEXAGON NUTS DIN 6915



Dimensions :

Note :

1. The Nut will generally conform to DIN 6915
2. Thread will conform to class 6H of DIN 13 for Coarse Series.
3. Heat Treatment to achieve mechanical properties to property Class 10.9
4. Nuts of property Class 10 are used with bolts of property Class 10.9
(In general nuts of a higher property class can replace nut of lower property class in a joint)
5. In Bolts/Nuts assembly tightening should be done by rotation of nuts.
6. All dimensions are in millimeters.

Thread Size	TPI UNC/UN	W Max.	C Max.	H Nom.
M16	2.00	24.00	26.75	13.00
M18	2.50	27.00	29.56	15.00
M20	2.50	30.00	32.95	16.00
M22	2.50	32.00	35.03	18.00
M24	3.00	36.00	39.55	19.00
M27	3.00	41.00	45.20	22.00
M30	3.50	46.00	50.85	24.00
M33	3.50	50.00	55.37	26.00
M36	4.00	55.00	60.79	29.00
M39	4.00	60.00	66.44	31.00
M42	4.50	65.00	71.30	34.00

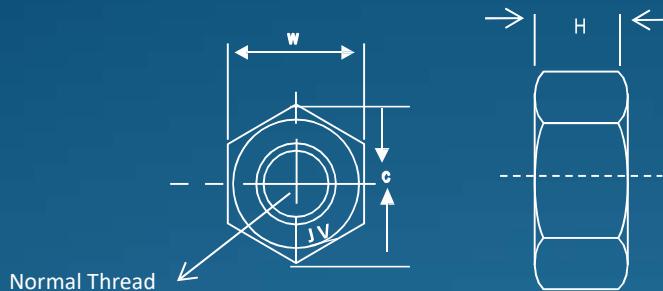
Coating : Mill Finish, Electro Galvanized & Hot Dip Galvanized

Grade : DIN 6915



ASHWANI IMPORTS & EXPORTS

HIGH STRENGTH HEXAGON NUTS BS 4190



Dimensions :

Note :

1. The Nut will generally conform to BS 4190.
2. Thread will conform to class 6H of BS 3643 for Coarse Series.
3. Heat Treatment to achieve mechanical properties to property Class 8 or 10.
4. Nuts of property Class 8 are used with bolts of property Class 10.9.
(In general nuts of a higher property class can replace nut of lower property class in a joint)
6. In Bolts/Nuts assembly tightening should be done by rotation of nuts.
7. Sizes in brackets are non preferred standards.
8. All dimensions are in millimeters.

Thread Size	TPI UNC/UN	W Max.	C Max.	H Nom.
M06	1.00	10.00	10.89	5.375
M08	1.25	13.00	14.25	6.875
M10	1.50	17.00	18.72	80.450
M12	1.75	19.00	20.88	10.450
M16	2.00	24.30	26.17	13.550
M20	2.50	30.00	32.53	16.550
M22	2.50	32.00	35.03	18.550
M24	3.00	36.00	39.55	19.650
M27	3.00	41.00	45.20	22.650
M30	3.50	46.00	50.85	24.650
M33	3.50	50.00	55.37	26.650
M36	4.00	55.00	60.79	29.650
M39	4.00	60.00	66.44	31.800
M42	4.50	65.00	72.09	34.800

Coating : Mill Finish, Electro Galvanized & Hot Dip Galvanized

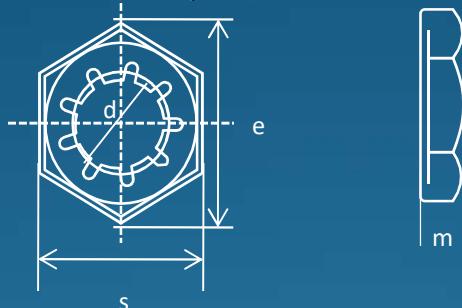
Grade : BS 4190



PAL NUT DIN 7967

For metric thread Series 1
(6 locking teeth)

For metric fine thread
Series 2 and 3
(9 locking teeth)



DIN 7967 Dimensions of Self Locking Counter Nuts

For thread size			For thread d			e m s			For thread f			u v		Weight (7.85kg/dm³) kg/1000 pieces		
Series 1	Series 2	Series 3	Series 1	Series 2	Series 3				Series 1	Series 2	Series 3			Series 1	Series 2	Series 3
M4			3.5			8.1	2.5	7.0	0.3			2.5	5.7	0.17		
M5			4.5			9.2	2.5	8.0	0.4			2.5	6.5	0.28		
M6			5.3			11.5	3.0	10.0	0.4			3.0	8.0	0.40		
M8	M8 x 1		6.9	7.1		15.0	3.5	13.0	0.5	0.4		3.5	10.0	0.90	0.70	
M10	M10 x 1.25	M10 x 1	8.6	9.0	9.3	19.6	4.0	17.0	0.5	0.5	0.5	4.0	12.0	1.40	1.40	1.40
M12	M12 x 1.5	M12 x 1.25	10.4	10.7	11.0	21.9	4.5	19.0	0.6	0.3	0.6	4.5	14.5	1.90	1.90	1.90
M14	M14 x 1.5		12.0	12.70		25.4	5.0	22.0	0.6	0.6		5.0	16.0	2.50	2.50	
M16	M16 x 1.5		14.1	14.8		27.7	5.0	24.0	0.7	0.7		5.0	18.0	3.40	3.40	
M18	M18 x 2	M18 x 1.5	15.5	16.2	16.8	31.2	5.5	27.0	0.7	0.7	0.7	5.5	20.5	4.10	4.10	4.10
M20	M20 x 2	M20 x 1.5	17.6	18.3	18.8	34.6	6.0	30.0	0.8	0.8	0.7	6.0	22.0	5.80	5.80	5.10
M22	M22 x 2	M22 x 1.5	19.6	20.3	20.8	36.9	6.0	32.0	0.8	0.8	0.7	6.0	24.0	6.40	6.40	5.60
M24	M24 x 2	M24 x 1.5	21.0	22.5	22.8	41.6	7.0	36.0	0.9	0.9	0.7	7.0	26.0	9.50	9.50	7.40
M27	M27 x 2		24.2	25.5		47.3	7.0	41.0	1.0	1.0		7.0	29.0	13.00	13.00	
M30	M30 x 2		26.6	28.5		53.1	8.0	46.0	1.1	1.0		8.0	32.0	17.50	16.00	
M33	M33 x 2		29.8	31.5		57.7	8.0	50.0	1.2	1.0		8.0	34.0	22.00	18.50	
M36	M36 x 3		32.2	33.6		63.5	9.0	55.0	1.3	1.3		9.0	38.0	29.00	29.00	
M39	M39 x 3		35.2	36.6		69.3	9.0	60.0	1.3	1.3		9.0	40.0	32.00	32.00	
M42	M42 x 3		37.6	39.8		75.0	11.0	65.0	1.4	1.4		11.0	45.0	45.00	45.00	
M45	M45 x 3		40.9	42.8		80.8	12.0	70.0	1.5	1.5		12.0	48.0	64.00	64.00	
M48	M48 x 3		43.9	45.8		86.5	14.0	75.0	1.6	1.5		14.0	52.0	80.00	75.00	
M52	M52 x 3		48.2	49.8		92.4	16.0	80.0	1.7	1.5		16.0	58.0	95.00	80.00	

Coating : Electro Galvanized & Hot Dip Galvanized

Grade : DIN 7969



ASHWANI IMPORTS & EXPORTS

FLAT WASHER DIN 125A / DIN 126A



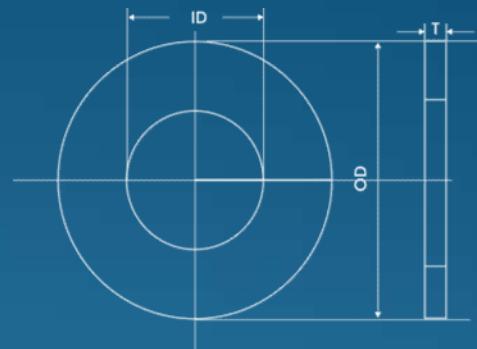
MM	Internal Dia	External Dia	Thickness
M 06	6.6	12.5	1.60
M 08	8.6	16	1.60
M 10	11	21	2.00
M 12	14	24	2.50
M 14	16	28	2.50
M 16	18	30	3.15
M 18	20	34	3.15
M 20	22	37	3.15
M 22	24	39	3.15
M 24	26	44	4.00
M 27	30	50	4.00
M 30	33	56	4.00
M 33	36	60	5.00
M 36	39	66	5.00
M 39	42	72	6.00
M 42	45	78	6.00
M 45	48	85	8.00
M 48	22	92	8.00
M 52	56	100	8.00
M 56	60	108	8.00
M 60	64	116	8.00
M 64	68	124	8.00

Coating : Black, Electro Galvanized , Cadmium Plated & Hot Dip Galvanized

Grade : ASTM A36, C45, CRC, SS304, SS316, Brass, Copper, Silicon Bronze



FLAT WASHER ASTM F436M



MM	Internal Dia	External Dia	Thickness
10	11.25	14.6	1.25
12	13.50	17.5	1.50
16	17.50	24.0	3.00
20	20.60	38.0	3.00
22	26.50	45.0	3.50
24	28.50	50.0	3.50
27	30.00	60.0	3.50
30	32.50	62.0	3.50
33	34.50	68.0	4.00
36	38.00	74.0	4.50
39	42.00	76.0	4.50
42	45.60	84.0	4.50
45	48.60	92.0	4.50
48	52.70	95.0	4.50
52	58.70	104.0	6.10
56	62.70	107.0	6.10
60	66.60	114.0	6.10
64	70.70	118.0	6.10
72	78.70	130.0	6.10
76	82.80	137.0	6.10
80	86.90	142.0	6.10
90	96.90	159.0	6.10
100	107.90	176.0	6.10

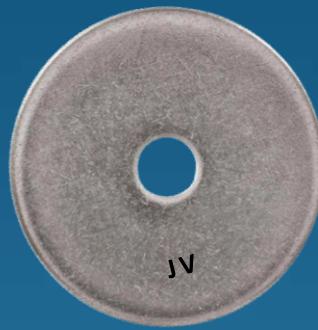
Coating : Black, Electro Galvanized , Hot Dip Galvanized, Ceramic Fluoropolymer Coated.

Grade : SAE1045, Hardened.



ASHWANI IMPORTS & EXPORTS

FENDER WASHER



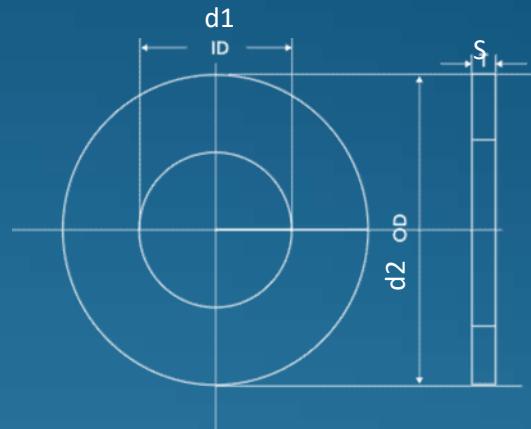
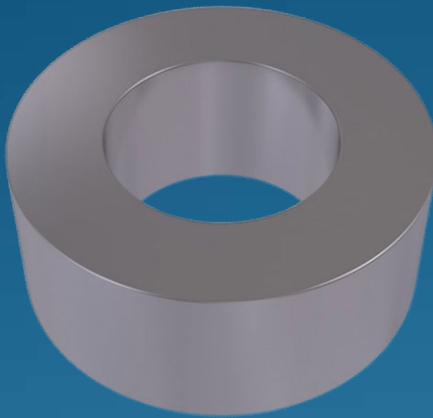
MM	Internal Dia	External Dia	Thickness
04	4.3	12	1.00
05	5.3	15	1.20
06	6.4	18	1.60
08	8.4	24	2.00
10	10.5	30	2.50
12	13	37	3.00
14	15	44	3.00
16	17	50	3.00
20	21	60	3.50
22	23.5	68	3.50
24	25.5	72	3.50

Coating : Black, Electro Galvanized , Cadmium Plated & Hot Dip Galvanized

Grade : ASTM A36, C45, CRC, SS304, SS316, Brass, Copper, Silicon Bronze



FLAT WASHER DIN 7989



For Thread Thread	d1 Min	d1 Max	d2 Min	d2 Max	S+1	Wt Kg 1000 Pcs
M10	11.00	11.43	19.16	20.00	8	13.800
M12	13.50	13.93	23.16	24.00	8	19.400
M16	17.50	17.93	29.16	30.00	8	29.300
M20	22.00	22.52	36.00	37.00	8	42.700
M24	26.00	26.52	43.00	44.00	8	62.100
M27	30.00	30.52	49.00	50.00	8	78.900
M30	33.00	33.62	54.80	56.00	8	101.000
M33	36.00	36.62	60.80	62.00	8	154.000

Coating : Electro Galvanized & Hot Dip Galvanized

Grade : DIN 7989



ASHWANI IMPORTS & EXPORTS

NORD LOCK WASHER

Nord-Lock wedge-locking washers utilise tension instead of friction in order to secure bolted joints exposed to severe vibration and dynamic loads.

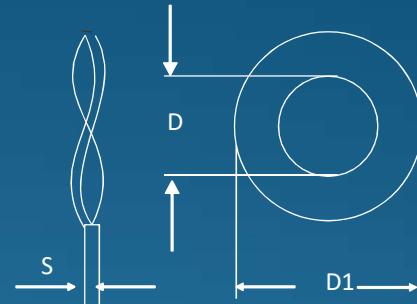
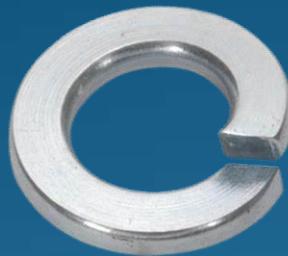
Over the operational life cycle, Nord-Lock washers offer increased operational reliability and lower maintenance costs, while significantly reducing the risks of production stops, accidents and warranty claims.



d (mm)	D (mm)	T (mm)	d (inch)	D (inch)	T (inch)	Bolt size (Metric)	Bolt size (UNC)	Weight/100 pairs (kg)
								(kg)
3.4	7	2.2	1/8"	1/4"	1/16"	M3	#5	0.04
3.9	7.6	2.2	1/8"	5/16"	1/16"	M3.5	#6	0.04
3.9	9	2.2	1/8"	3/8"	1/16"	M3.5	#6	0.07
4.4	7.6	2.2	3/16"	5/16"	1/16"	M4	#8	0.04
4.4	9	2.2	3/16"	3/8"	1/16"	M4	#8	0.07
5.4	9	2.2	3/16"	3/8"	1/16"	M5	#10	0.06
5.4	10.8	2.2	3/16"	7/16"	1/16"	M5	#10	0.11
6.5	10.8	2.2	1/4"	7/16"	1/16"	M6		0.09
6.5	13.5	2	1/4"	1/2"	1/16"	M6		0.16
7.2	11.5	2.2	1/4"	7/16"	1/16"		1/4"	0.09
7.2	13.5	2.2	1/4"	1/2"	1/16"		1/4"	0.15
8.7	13.5	2	5/16"	1/2"	1/16"	M8	5/16"	0.12
8.7	16.6	2.15	5/16"	5/8"	1/16"	M8	5/16"	0.23
10.3	16.6	2	7/16"	5/8"	1/16"		3/8"	0.19
10.3	21	2	7/16"	13/16"	1/16"		3/8"	0.38
10.7	16.6	2	7/16"	5/8"	1/16"	M10		0.18
10.7	21	2	7/16"	13/16"	1/16"	M10		0.37
11.4	18.5	2.2	7/16"	3/4"	1/16"	M11	7/16"	0.26
13	19.5	2	1/2"	3/4"	1/16"	M12		0.23
13	25.4	3	1/2"	1"	1/8"	M12		0.82
13.5	19.5	2	1/2"	3/4"	1/16"		1/2"	0.22
13.5	25.4	3.2	1/2"	1"	1/8"		1/2"	0.8
15.2	23	3	5/8"	15/16"	1/8"	M14	9/16"	0.49
15.2	30.7	3.2	5/8"	1 3/16"	1/8"	M14	9/16"	1.31
17	25.4	3	11/16"	1"	1/8"	M16	5/8"	0.59
17	30.7	3.2	11/16"	1 3/16"	1/8"	M16	5/8"	1.13
19.5	29	3.2	3/4"	1 1/8"	1/8"	M18		0.8
19.5	34.5	3.2	3/4"	1 3/8"	1/8"	M18		1.56
20	30.7	3.2	13/16"	1 3/16"	1/8"		3/4"	0.96
20	39	3.2	13/16"	1 9/16"	1/8"		3/4"	2.1
21.4	30.7	3	13/16"	1 3/16"	1/8"	M20		0.82
21.4	39	3.2	13/16"	1 9/16"	1/8"	M20		2.06
23.4	34.5	3.2	15/16"	1 3/8"	1/8"	M22	7/8"	1.23
23.4	42	3.2	15/16"	1 5/8"	1/8"	M22	7/8"	2.23
25.3	39	3.2	1"	1 9/16"	1/8"	M24		1.59
25.3	48.5	4.5	1"	1 15/16"	1/8"	M24		4.47
27.9	39	3.2	1 1/8"	1 9/16"	1/8"		1"	1.42
27.9	48.5	3.2	1 1/8"	1 15/16"	1/8"		1"	2.79
28.4	42	6.8	1 1/8"	1 5/8"	1/4"	M27		3.45
28.4	48.5	6.8	1 1/8"	1 15/16"	1/4"	M27		5.34
31.4	47	6.8	1 1/4"	1 7/8"	1/4"	M30	1 1/8"	4.49
31.4	58.5	6.8	1 1/4"	2 5/16"	1/4"	M30	1 1/8"	9.18
34.4	48.5	6.8	1 3/8"	1 15/16"	1/4"	M33	1 1/4"	4.28
37.4	55	6.8	1 1/2"	2 3/16"	1/4"	M36	1 3/8"	5.96
40.4	58.5	6.8	1 9/16"	2 5/16"	1/4"	M39	1 1/2"	6.74
43.2	63	6.8	1 11/16"	2 1/2"	1/4"	M42		7.5
46.2	70	6.8	1 13/16"	2 3/4"	1/4"	M45	1 3/4"	10.2
49.6	75	6.8	1 15/16"	2 15/16"	1/4"	M48		12
53.6	80	9	2 1/8"	3 1/8"	3/8"	M52	2"	18.04
59.1	85	9	2 5/16"	3 3/8"	3/8"	M56	2 1/4"	21.3
63.1	90	9	2 1/2"	3 9/16"	3/8"	M60		23.5
67.1	95	9	2 5/8"	3 3/4"	3/8"	M64	2 1/2"	25.8
71.1	100	9	2 13/16"	3 15/16"	3/8"	M68		28.2
75.1	105	9	2 15/16"	4 1/8"	3/8"	M72		30.7
79.1	110	9	3 1/8"	4 5/16"	3/8"	M76	3"	33.3
83.1	115	9	3 1/4"	4 1/2"	3/8"	M80		36



HELICAL SPRING WASHER / LOCK WASHER DIN 127



MM	Internal Dia D	External Dia D1	Thickness
06	6.5	9:00	1.00
08	8.5	12.00	1.25
10	10.5	15.00	1.50
12	13.50	17.50	1.50
16	17.50	24.00	3.00
20	20.60	38.00	3.00
22	23.50	45.00	3.50
24	28.50	50.00	3.50
27	30.00	60.00	3.50
30	32.50	62.00	3.50
33	34.50	68.00	4.00
36	38.00	74.00	4.50
39	42.00	76.00	4.50

Coating : Black, Electro Galvanized & Hot Dip Galvanized

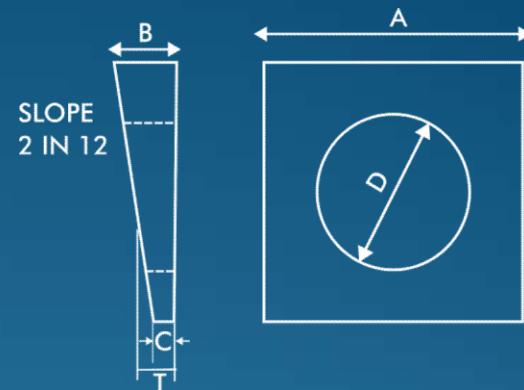
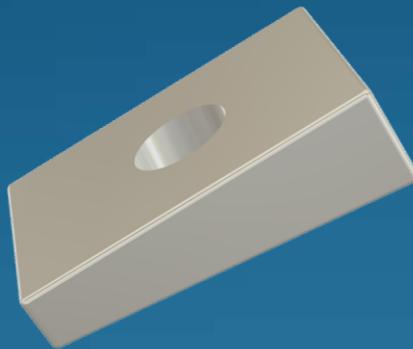
Grade : A36, SAE1045 Hardened, C45, SS304, SS316, Brass, Copper, Silicon Bronze



ASHWANI IMPORTS & EXPORTS

BEVELLED WASHERS

Hardened Bevelled washers are covered under the ASTM specification F436. They are intended for American Standard beams and channels in structural applications, to compensate for lack of parallelism. For Bevelled washers to be used with low carbon steel bolts



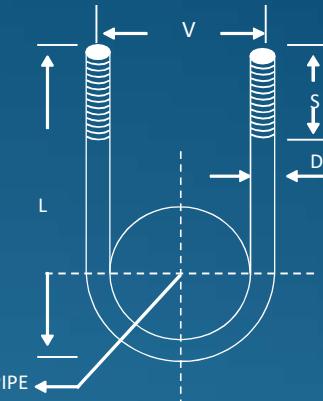
Bolt Size	A	B	C	T	D	Weight (lbs.) Per 100 Pieces
	Square Dimension	Thickness			Diameter	
1/2	1.75	0.45	0.16	0.31	0.53	24.6
5/8	1.75	0.45	0.16	0.31	0.69	23.3
3/4	1.75	0.45	0.16	0.31	0.81	22
7/8	1.75	0.45	0.16	0.31	0.94	20.4
1	1.75	0.45	0.16	0.31	1.12	17.9
1 1/8	2.25	0.5	0.12	0.31	1.25	33.8
1 1/4	2.25	0.5	0.12	0.31	1.38	31.4
1 3/8	2.25	0.5	0.12	0.31	1.5	29.1
1 1/2	2.25	0.5	0.12	0.31	1.62	26.5

Coating : Electro Galvanized & Hot Dip Galvanized

Grade : ASTM F436 / F436M



U BOLT TYPE-A



Size	D	V	L	S
1/2"	M08	32	55	30
3/4"	M08	38	60	32
1"	M08	44	75	40
1-1/4"	M10	55	85	45
1-1/2"	M10	61	95	45
2"	M13	78	105	50
2-1/2"	M13	92	118	50
3"	M13	104	130	50
4"	M13	130	160	50
6"	M16	187	215	60
8"	M16	236	265	60
10"	M16	292	315	60
12"	M18	345	370	60
14"	M18	377	410	70
16"	M22	430	465	80
18"	M22	484	515	90
20"	M25	535	570	90
22"	M25	595	635	90
24"	M25	637	670	90

Coating : Electro Galvanized , Cadmium Plated , Hot Dip & PVC Coated

Grade : ASTM A36, A307, B7, 8.8, S304, SS316.

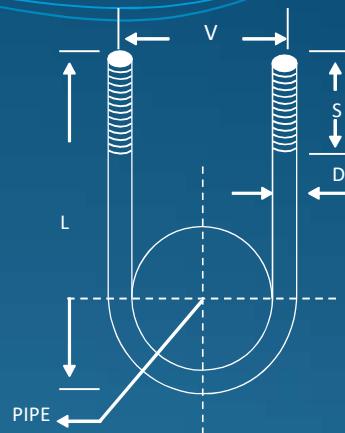


ASHWANI IMPORTS & EXPORTS

U BOLT TYPE-B PVC COATED



PVC COATED



Dia	Bolt Size D	B	C	A	E
1/2"	M6/M8	24	30	70	54
3/4"	M6/M8	29	35	70	54
1"	M6/M8	35	41	70	54
1-1/4"	M8/M10	43	53	74	54
1-1/2"	M8/M10	51	61	77	64
2"	M8/M10	62	72	83	64
2-1/2"	M12	75	87	96	77
3"	M12	91	103	102	77
3-1/2"	M12	104	116	108	77
4"	M12	116	128	115	77
5"	M12	143	155	127	77
6"	M16	172	188	156	96
8"	M16	223	239	181	96
10"	M20	277	297	213	102
12"	M24	328	352	245	108
14"	M24	359	383	261	108
16"	M24	410	434	286	108
18"	M24	461	485	321	121
20"	M24	512	536	347	121
24"	M24	613	637	397	121
30"	M24	766	790	474	121
36"	M24	919	943	550	121

Coating : Electro Galvanized , Cadmium Plated , Hot Dip & PVC Coated

Grade : ASTM A36, A307, B7, 8.8, S304, SS316.



PIPE SUPPORT CLAMP WITH AND WITHOUT RUBBER



COMBINATION NUT WELD M8 & M10

Thickness : Dia < 100mm – 2mm

Width : 20mm

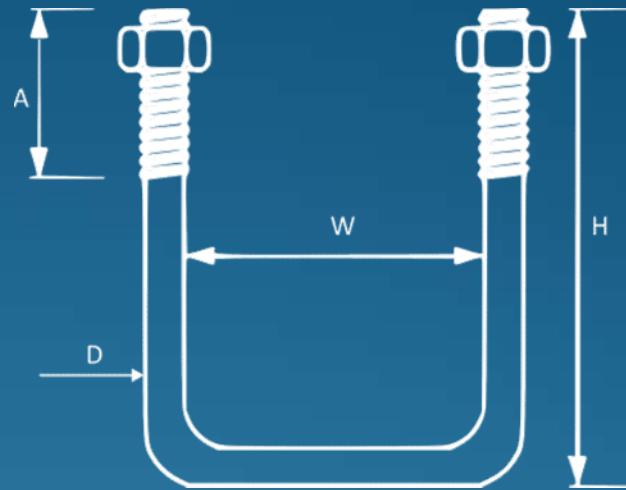
M6 Safety Screw

Size	Breaking Load KG	Maximum Load KG	Span Range mm
	KG	200KG	17-20
1/2"	600 KG	200KG	21-24
3/4"	600 KG	200KG	25-28
1"	600 KG	200KG	32-35
1-1/4"	600 KG	200KG	42-45
1-1/2"	600 KG	200KG	48-51
2"	600 KG	200KG	58-63
2-1/2"	600 KG	200KG	62-78
3"	600 KG	200KG	84-89
3-1/2"	600 KG	200KG	96-102
4"	600 KG	200KG	109-114
4-1/2"	600 KG	200KG	121-127
5"	600 KG	200KG	133-140
6"	600 KG	200KG	159-168
8"	600 KG	200KG	207-219
10"	600 KG	200KG	265-276
12"	600 KG	200KG	315-330
16"	600 KG	200KG	419-435

Coating : Electro Galvanized , Hot Dip & PVC Coated

Grade : ASTM A36, S304, SS316.

SQUARE U BOLT



Technical Data & Availability

Size	A (mm)	W	H
M6X020X45	25	20-21	45
M6X25X50	30	25-26	50
M6X30X70	30	30-31	70
M6X35X75	40	35-36	75
M6X40X80	40	40-41	80
M6X45X85	40	45-46	85
M6X50X100	50	50-51	100
M8X40X65	45	40-41	65
M8X45X110	60	45-46	110
M8X50X100	50	50-51	100
M8X55X85	35	55-56	85
M8X60X120	60	60-61	120

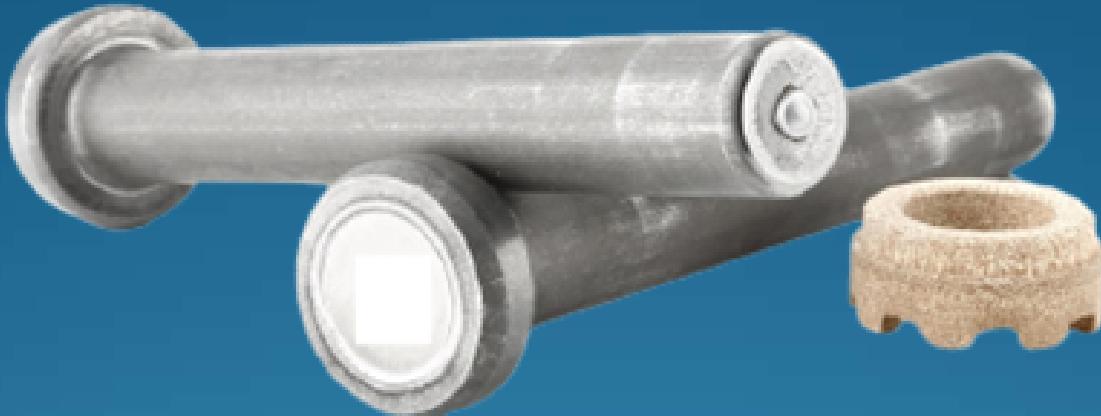
Coating : Electro Galvanized , Hot Dip & PVC Coated

Grade : ASTM A36, S304, SS316.



SHEAR STUD

According EN 10025-2
Steel Number 1.0116 Grade S235J2G3



STANDARD SHEAR STUD

01	13mm Diameter	50mm-200mm length
02	16mm Diameter	50mm-200mm length
03	19mm Diameter	50mm-450mm length
04	22mm Diameter	50mm-450mm length
05	25mm Diameter	50mm-450mm length

Coating : SELF COLOUR / MILL FINISH

Grade : Grade S235J2G3



ASHWANI IMPORTS & EXPORTS

SHEAR STUD

According EN 10025-2
Steel Number 1.0116 Grade S235J2G3



- SHEAR STUD



DIMENSIONS OF SHEAR CONNECTORS

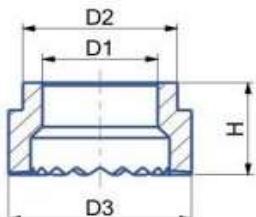
Unit : mm.

D1 ± 0.4	9.5	10	12.7	13	16	19	22	25	25.4
D2 ± 0.3	19		25		32	32	35		41
H $^{+1}_{-0.5}$	7		8		8	10	10		12
L ± 1.5	$L^{b,c}_{b,c+3}$		$L^{b,c}_{b,c+3}$		$L^{b,c+4}_{b,c+4.5}$	$L^{b,c+4.5}_{b,c+5}$	$L^{b,c+5}_{b,c+5.5}$		
R ± 1	1.5		1.5		2.5	2.5	3.0		3.0

b TOLERANCE ON L IS ± 1.5 mm.

c FOR SPECIAL CONDITIONS, E.G. THROUGH-DECK WELDING. THE DIMENSIONS AND THE TOLERANCES ARE NOT APPLICABLE.

- CERAMIC FERRILE



STANDARD FERRILES

THESE STANDARD CERAMIC FERRILES ARE ACCORDING ISO 13918:2008 TYPE UF, FOR SHEAR CONNECTOR WELDED TO STEEL MEMBER IN POSITION

Unit : mm.

SPECIFICATION	DIMENSION			
	D1 $^{+0.5}_{-0}$	D2 ± 1	D3 ± 1	H \pm
UF 10	10.2	15	17.8	10
UF 13	13.1	20	22.2	11
UF 16	16.3	26	30	13
UF 19	19.4	26	30.8	16.7
UF 22	22.8	30.7	38.5	18.5
UF 25	26	35.5	41	21

Coating : SELF COLOUR / MILL FINISH

Grade : Grade S235J2G3



SLEEVE ANCHORS



How Sleeve Anchors Work

Considered by many in the construction trade and other industries to be one of the most versatile masonry expansion anchors available, sleeve anchors can be used in a variety of base materials, including block, brick, and concrete. Sleeve anchors come in a wide variety of diameters, lengths and head styles, which makes them an excellent fastener solution for light or heavy-duty fastening jobs. They are also pre-assembled and ready for immediate installation.

The anchor sleeve is constructed of high-quality steel components. Each part has zinc plating and comes pre-assembled in a ready-to-use anchor. The anchor consists of a threaded stud that has an outwardly flared, cone-shaped end. The tubular expander sleeve is assembled over the stud and pushed against the tiny diameter of the cone. The washer and hex nut assembled on the stud complete the anchor, which functions based on a true expansion principle: By tightening the nut, it pulls the cone-shaped stud end into the expander sleeve. This process wedges the anchor and locks it into the base material.

Sleeve Anchors Dimensions

Sleeve anchors are available in stainless steel for outdoor and wet environments. The fastener has four different head styles: Acorn, hex, round or flat countersunk. They're also available in the following dimensions:

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

Hole Preparation

You will need a hammer drill to install a sleeve anchor. The hammer motion of the drill breaks up the base material, and the rotation of the tool pulls the material out of the hole to create an opening that meets the tolerance required for the anchor. If a standard straight-rotation drill is used, the hole created by the tool will not be appropriate to ensure proper installation of the anchor.

Make sure you set the hammer drill in the hammer and rotation mold and, using a carbide tip bit that meets ANSI Standards, create a hole with the appropriate tolerance. The hole must have the same dimensions as the sleeve anchor you install. For example, a 1" anchor requires you to drill a 1" hole.

Make the depth of the hole in the base material at least $\frac{1}{2}$ inch deeper than the anchor will penetrate. In addition, each diameter of anchor requires a minimum embedment depth to ensure minimum holding values. The hole must also be cleaned of any debris left over from the drilling process. Use a wire brush, compressed air or a vacuum to remove this debris.

Installing a Sleeve Anchor.

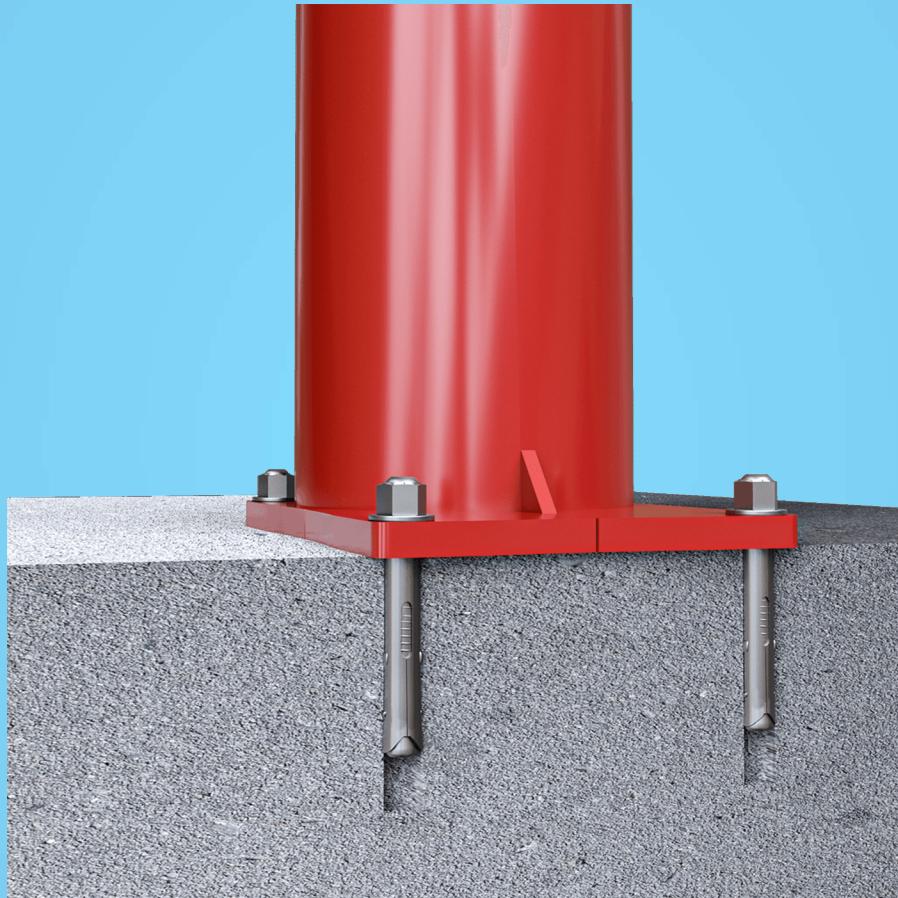
Insert the sleeve anchor into the fixture and into the hole in the base material. Make sure the washer is flush with the material being fastened. Use your hammer to deliver several light taps to seat the anchor in the hole properly.

Then, use a wrench to turn the nut or head 2-3 turns, which pulls the working end of the sleeve anchor up through the sleeve, expanding the anchor and securing it in the base material.



ASHWANI IMPORTS & EXPORTS

SLEEVE ANCHORS



SIZE	DRILL SIZE	LBS PER HUNDRED	CASE QUANTITY
1/4" x 1-3/8"	1/4"	2.2	2,000
5/16" x 1-1/2"	5/16"	3.6	1,500
5/16" x 2-1/2"	5/16"	5.4	1,000
3/8" x 1-7/8"	3/8"	6.1	800
3/8" x 3"	3/8"	9	600
3/8" x 4"	3/8"	11.6	500
1/2" x 2-1/4"	1/2"	12.2	500
1/2" x 2-3/4"	1/2"	14.6	350
1/2" x 3"	1/2"	15.1	350
1/2" x 4"	1/2"	20.3	300
5/8" x 3"	5/8"	28.5	200
5/8" x 4-1/4"	5/8"	38.7	150
3/4" x 4-1/4"	3/4"	59	100



SLEEVE ANCHORS





SLEEVE ANCHORS

Stainless steel 18-8 : A corrosion resistant steel alloy. The most common stainless steel for general hardware use.

Stainless steel 316 : A highly corrosion resistant grade of stainless steel. Ideal in salt water and chlorine environments.

Zinc plated steel : A low carbon steel for general use. Zinc plated for moderate corrosion resistance.

Steel plain finish : A low carbon steel for general use. Un-plated finish.

B7 alloy steel plain finish : A high strength heat treated alloy steel. Intended for use in high temperature, high pressure and special purpose applications. Un-plated finish.

Hot dipped galvanized steel : A low carbon steel for general use. Hot dipped galvanized is a coating for very good corrosion resistance.

Brass Solid brass. An alloy of primarily copper and zinc with good corrosion resistance. Used mostly in decorative and electrical applications. Exact color varies.

Silicon bronze Solid bronze. An alloy of copper with greater strength and corrosion resistance than brass. Exact color varies.





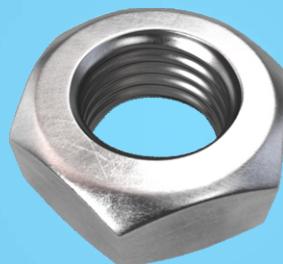
MISC COUPLING NUT



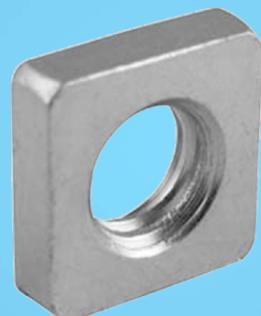
DOOM NUT



FLENGE NUT



JAM NUT



SQUARE NUT



WING NUT LONG



WING NUT SHORT



SLOTTED NUT



SPECIAL NUT WITH BOLT



ASHWANI IMPORTS & EXPORTS

MISC COUPLING NUT



AXLE NUTS



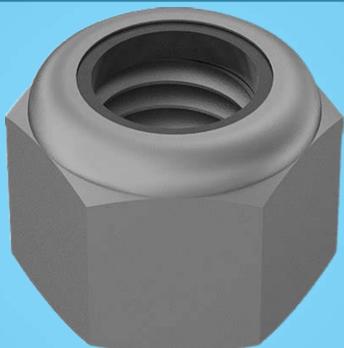
HEX COUPLING NUTS



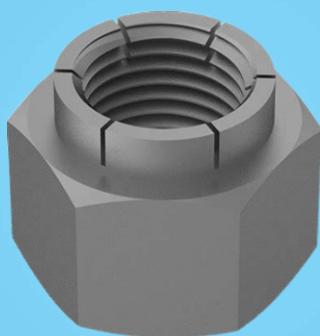
ROUND COUPLING NUTS



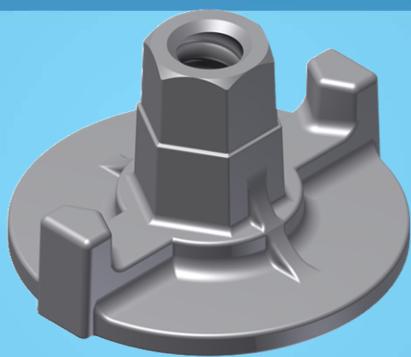
COUPLING NUT BRASS



NYLOCK NUT WITH RUBBER



SPECIAL NUT



WING NUT



RUBBER CLAMP



SPECIAL BOLTS





ASHWANI IMPORTS & EXPORTS

THREADING TOOLS AND TAPS



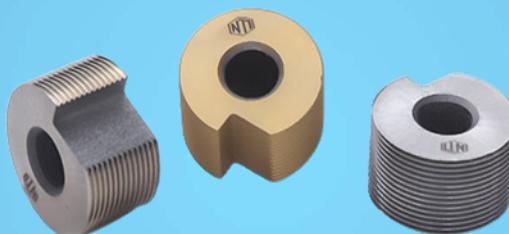
NUT THREADING TAPS



SPECIAL THREADING TAPS



THREADING MOUSE



ROLLER THREADING



MILLING CUTTER



MILLING CUTTER



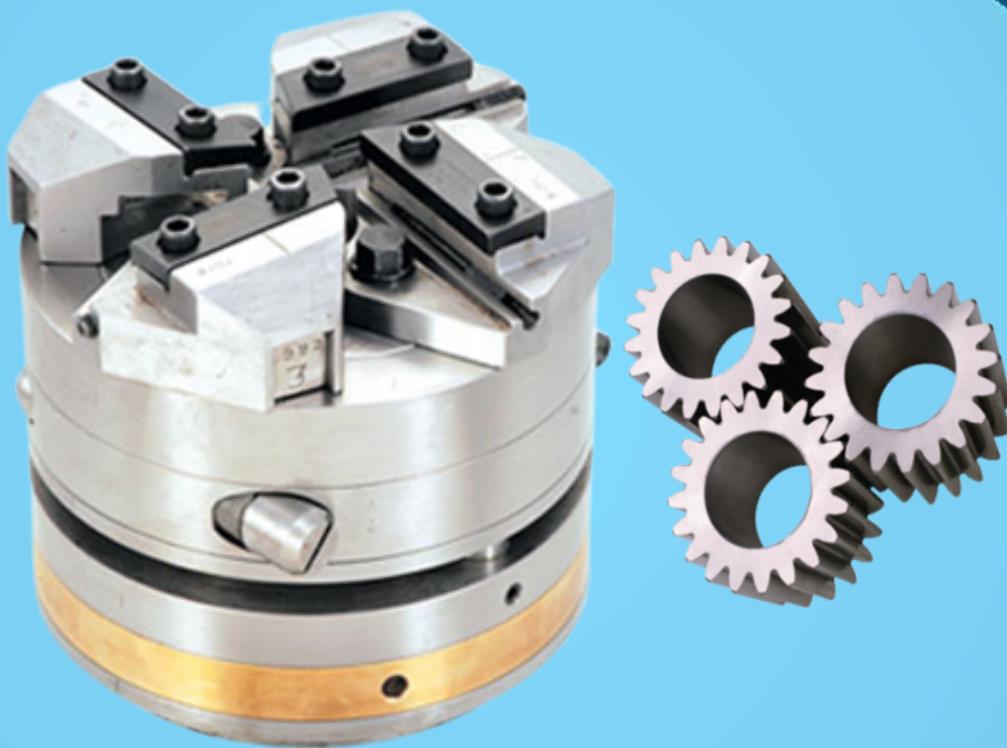
MILLING CUTTER



MILLING CUTTER



THREADING TOOLS AND TAPS



DIE HEAD FOR THREADING MACHINE & GEARS



TOOL BITS



CUTTING TOOLS



HANDTHREAD DIES



PENCIL GRINDING TOOLS



ASHWANI IMPORTS & EXPORTS

CHAIN LINK FENCE & ACCESSORIES



FENCE AND ACCESSORIES





ASHWANI IMPORTS & EXPORTS

FASTENERS



ASHWANI IMPORTS & EXPORTS



FASTENERS

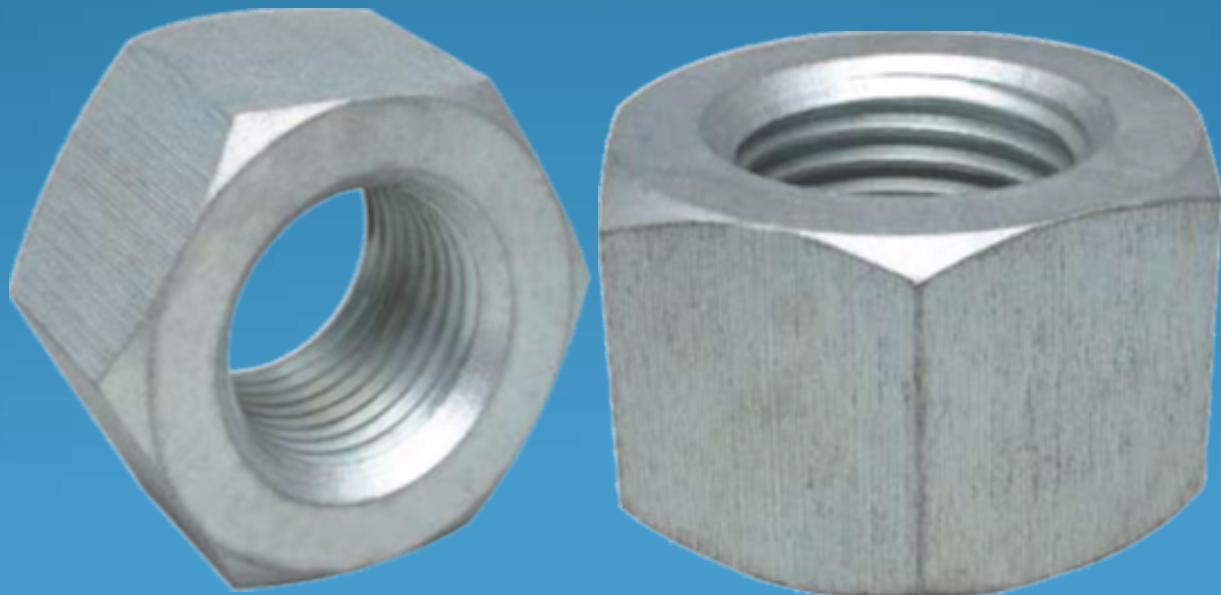




ASHWANI IMPORTS & EXPORTS

STUD BOLT WITH 2 NUTS

ASTM A193 GR B7 / B7M / L7 / L7M





Stud Bolts Weight Chart					WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length	Length	Dia	Dia	Dia	Dia	Dia	Dia	Dia
mm(L)	inch(L)	3/8	7/16	1/2	9/16	5/8	3/4	7/8
50	2	0.054	0.073	0.108	0.135	0.172	0.279	0.4
55	2.1/4	0.056	0.076	0.113	0.14	0.178	0.289	0.413
60	2.3/8	0.058	0.079	0.117	0.145	0.184	0.298	0.425
65	2.1/2	0.061	0.082	0.121	0.15	0.191	0.307	0.438
70	2.3/4	0.063	0.085	0.125	0.155	0.197	0.317	0.451
75	3	0.065	0.087	0.129	0.16	0.203	0.326	0.464
80	3.1/8	0.067	0.09	0.133	0.165	0.21	0.335	0.477
85	3.1/4	0.069	0.093	0.137	0.17	0.216	0.345	0.489
90	3.1/2	0.071	0.096	0.141	0.174	0.222	0.354	0.502
95	3.3/4	0.074	0.099	0.145	0.179	0.229	0.363	0.515
100	4	0.076	0.102	0.149	0.184	0.235	0.373	0.528
105	4.1/8	0.078	0.105	0.153	0.189	0.242	0.382	0.541
110	4.1/4	0.08	0.108	0.157	0.194	0.248	0.391	0.553
115	4.1/2	0.082	0.111	0.161	0.199	0.254	0.401	0.566
120	4.3/4	0.084	0.114	0.165	0.204	0.261	0.41	0.579
125	5	0.086	0.117	0.169	0.209	0.267	0.42	0.592
130	5.1/8	0.089	0.12	0.173	0.214	0.273	0.429	0.605
135	5.1/4	0.091	0.123	0.177	0.219	0.28	0.438	0.617
140	5.1/2	0.093	0.126	0.181	0.224	0.286	0.448	0.63
145	5.3/4	0.095	0.128	0.185	0.229	0.292	0.457	0.643
150	6	0.097	0.131	0.189	0.234	0.299	0.466	0.656
155	6.1/8	0.099	0.134	0.193	0.239	0.305	0.476	0.669
160	6.1/4	0.102	0.137	0.197	0.244	0.311	0.485	0.681
165	6.1/2	0.104	0.14	0.201	0.249	0.318	0.494	0.694
170	6.3/4	0.106	0.143	0.205	0.254	0.324	0.504	0.707
175	6.7/8	0.108	0.146	0.209	0.259	0.33	0.513	0.72
180	7	0.11	0.149	0.213	0.264	0.337	0.522	0.733
185	7.1/4	0.112	0.152	0.217	0.269	0.343	0.532	0.745
190	7.1/2	0.114	0.155	0.221	0.274	0.349	0.541	0.758
195	7.3/4	0.117	0.158	0.225	0.279	0.356	0.55	0.771
200	7.7/8	0.119	0.161	0.229	0.284	0.362	0.56	0.784
205	8	0.121	0.164	0.233	0.289	0.369	0.569	0.797
210	8.1/4	0.123	0.167	0.237	0.294	0.375	0.578	0.809
215	8.1/2	0.125	0.169	0.241	0.299	0.381	0.588	0.822
220	8.3/4	0.127	0.172	0.245	0.304	0.388	0.597	0.835
225	8.7/8	0.13	0.175	0.249	0.309	0.394	0.607	0.848
230	9	0.132	0.178	0.253	0.314	0.4	0.616	0.861
235	9.1/4	0.134	0.181	0.257	0.319	0.407	0.625	0.873
240	9.1/2	0.136	0.184	0.261	0.324	0.413	0.635	0.886
245	9.5/8	0.138	0.187	0.265	0.329	0.419	0.644	0.899
250	9.3/4	0.14	0.19	0.269	0.334	0.426	0.653	0.912



Stud Bolts Weight Chart					WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length	Length	Dia	Dia	Dia	Dia	Dia	Dia	Dia
mm(L)	inch(L)	3/8	7/16	1/2	9/16	5/8	3/4	7/8
255	10	0.142	0.193	0.274	0.339	0.432	0.663	0.925
260	10.1/4	0.145	0.196	0.278	0.344	0.438	0.672	0.937
265	10.1/2	0.147	0.199	0.282	0.349	0.445	0.681	0.95
270	10.5/8	0.149	0.202	0.286	0.354	0.451	0.691	0.963
275	10.3/4	0.151	0.205	0.29	0.359	0.457	0.7	0.976
d/l		8-Mar	16-Jul	2-Jan	16-Sep	8-May	4-Mar	8-Jul
280	11	0.153	0.208	0.294	0.364	0.464	0.709	0.989
285	11.1/4	0.155	0.21	0.298	0.369	0.47	0.719	1.001
290	11.1/2	0.158	0.213	0.302	0.374	0.476	0.728	1.014
295	11.5/8	0.16	0.216	0.306	0.379	0.483	0.737	1.027
300	11.3/4	0.162	0.219	0.31	0.384	0.489	0.747	1.04
305	12	0.164	0.222	0.314	0.389	0.496	0.756	1.053
310	12.1/4	0.166	0.225	0.318	0.394	0.502	0.765	1.065
315	12.1/2	0.168	0.228	0.322	0.399	0.508	0.775	1.078
320	12.5/8	0.17	0.231	0.326	0.404	0.515	0.784	1.091
325	12.3/4	0.173	0.234	0.33	0.409	0.521	0.794	1.104
330	13	0.175	0.237	0.334	0.414	0.527	0.803	1.117
335	13.1/4	0.177	0.24	0.338	0.419	0.534	0.812	1.129
340	13.3/8	0.179	0.243	0.342	0.424	0.54	0.822	1.142
345	13.1/2	0.181	0.246	0.346	0.429	0.546	0.831	1.155
350	13.3/4	0.183	0.249	0.35	0.434	0.553	0.84	1.168
355	14	0.186	0.251	0.354	0.439	0.559	0.85	1.181
360	14.1/4	0.188	0.254	0.358	0.444	0.565	0.859	1.193
365	14.3/8	0.19	0.257	0.362	0.449	0.572	0.868	1.206
370	14.1/2	0.192	0.26	0.366	0.454	0.578	0.878	1.219
375	14.3/4	0.194	0.263	0.37	0.459	0.584	0.887	1.232
380	15	0.196	0.266	0.374	0.464	0.591	0.896	1.245
385	15.1/4	0.199	0.269	0.378	0.469	0.597	0.906	1.257
390	15.3/8	0.201	0.272	0.382	0.474	0.603	0.915	1.27
395	15.1/2	0.203	0.275	0.386	0.479	0.61	0.924	1.283
400	15.3/4	0.205	0.278	0.39	0.483	0.616	0.934	1.296
405	16	0.207	0.281	0.394	0.488	0.623	0.943	1.309
410	16.1/4	0.209	0.284	0.398	0.493	0.629	0.952	1.321
415	16.3/8	0.211	0.287	0.402	0.498	0.635	0.962	1.334
420	16.1/2	0.214	0.29	0.406	0.503	0.642	0.971	1.347
425	16.3/4	0.216	0.292	0.41	0.508	0.648	0.981	1.36
430	17	0.218	0.295	0.414	0.513	0.654	0.99	1.373
435	17.1/8	0.22	0.298	0.418	0.518	0.661	0.999	1.385
440	17.1/4	0.222	0.301	0.422	0.523	0.667	1.009	1.398
445	17.1/2	0.224	0.304	0.426	0.528	0.673	1.018	1.411
450	17.3/4	0.227	0.307	0.43	0.533	0.68	1.027	1.424
455	18	0.229	0.31	0.435	0.538	0.686	1.037	1.437
460	18.1/8	0.231	0.313	0.439	0.543	0.692	1.046	1.449
465	18.1/4	0.233	0.316	0.443	0.548	0.699	1.055	1.462
470	18.1/2	0.235	0.319	0.447	0.553	0.705	1.065	1.475
475	18.3/4	0.237	0.322	0.451	0.558	0.711	1.074	1.488
480	18.7/8	0.239	0.325	0.455	0.563	0.718	1.083	1.501
485	19	0.242	0.328	0.459	0.568	0.724	1.093	1.513
490	19.1/4	0.244	0.331	0.463	0.573	0.73	1.102	1.526
495	19.1/2	0.246	0.333	0.467	0.578	0.737	1.111	1.539
500	19.3/4	0.248	0.336	0.471	0.583	0.743	1.121	1.552



Stud Bolts Weight Chart				WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length mm(L)	Length inch(L)	Dia 1	Dia 1.1/8	Dia 1.1/4	Dia 1.3/8	Dia 1.1/2	Dia 1.5/8
50	2	0.554		0.747	0.96	1.229	1.543
55	2.1/4	0.571		0.768	0.988	1.263	1.583
60	2.3/8	0.587		0.79	1.015	1.296	1.623
65	2.1/2	0.604		0.812	1.042	1.329	1.663
70	2.3/4	0.621		0.833	1.069	1.362	1.703
75	3	0.638		0.855	1.096	1.396	1.743
80	3.1/8	0.655		0.876	1.123	1.429	1.783
85	3.1/4	0.671		0.898	1.151	1.462	1.823
90	3.1/2	0.688		0.92	1.178	1.495	1.863
95	3.3/4	0.705		0.941	1.205	1.529	1.903
100	4	0.722		0.963	1.232	1.562	1.943
105	4.1/8	0.739		0.985	1.259	1.595	1.983
110	4.1/4	0.755		1.006	1.286	1.628	2.023
115	4.1/2	0.772		1.028	1.313	1.662	2.063
120	4.3/4	0.789		1.05	1.341	1.695	2.103
125	5	0.806		1.071	1.368	1.728	2.143
130	5.1/8	0.823		1.093	1.395	1.761	2.183
135	5.1/4	0.839		1.115	1.422	1.795	2.223
140	5.1/2	0.856		1.136	1.449	1.828	2.263
145	5.3/4	0.873		1.158	1.476	1.861	2.304
150	6	0.89		1.18	1.503	1.894	2.344
155	6.1/8	0.907		1.201	1.531	1.928	2.384
160	6.1/4	0.923		1.223	1.558	1.961	2.424
165	6.1/2	0.94		1.245	1.585	1.994	2.464
170	6.3/4	0.957		1.266	1.612	2.027	2.504
175	6.7/8	0.974		1.288	1.639	2.061	2.544
180	7	0.991		1.309	1.666	2.094	2.584
185	7.1/4	1.007		1.331	1.694	2.127	2.624
190	7.1/2	1.024		1.353	1.721	2.16	2.664
195	7.3/4	1.041		1.374	1.748	2.194	2.704
200	7.7/8	1.058		1.396	1.775	2.227	2.744
205	8	1.075		1.418	1.802	2.26	2.784
210	8.1/4	1.091		1.439	1.829	2.293	2.824
215	8.1/2	1.108		1.461	1.856	2.327	2.864
220	8.3/4	1.125		1.483	1.884	2.36	2.904
225	8.7/8	1.142		1.504	1.911	2.393	2.944
230	9	1.159		1.526	1.938	2.426	2.984
235	9.1/4	1.175		1.548	1.965	2.46	3.024
240	9.1/2	1.192		1.569	1.992	2.493	3.064
245	9.5/8	1.209		1.591	2.019	2.526	3.105
250	9.3/4	1.226		1.613	2.046	2.559	3.145



Stud Bolts Weight Chart				WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length	Length	Dia	Dia	Dia	Dia	Dia	Dia
mm(L)	inch(L)	1	1.1/8	1.1/4	1.3/8	1.1/2	1.5/8
255	10	1.243	1.634	2.074	2.593	3.185	3.893
260	10.1/4	1.259	1.656	2.101	2.626	3.225	3.941
265	10.1/2	1.276	1.678	2.128	2.659	3.265	3.988
270	10.5/8	1.293	1.699	2.155	2.692	3.305	4.035
275	10.3/4	1.31	1.721	2.182	2.726	3.345	4.083
280	11	1.327	1.742	2.209	2.759	3.385	4.13
285	11.1/4	1.343	1.764	2.237	2.792	3.425	4.178
290	11.1/2	1.36	1.786	2.264	2.825	3.465	4.225
295	11.5/8	1.377	1.807	2.291	2.859	3.505	4.272
300	11.3/4	1.394	1.829	2.318	2.892	3.545	4.32
305	12	1.411	1.851	2.345	2.925	3.585	4.367
310	12.1/4	1.427	1.872	2.372	2.958	3.625	4.415
315	12.1/2	1.444	1.894	2.399	2.992	3.665	4.462
320	12.5/8	1.461	1.916	2.427	3.025	3.705	4.509
325	12.3/4	1.478	1.937	2.454	3.058	3.745	4.557
330	13	1.495	1.959	2.481	3.091	3.785	4.604
335	13.1/4	1.511	1.981	2.508	3.125	3.825	4.652
340	13.3/8	1.528	2.002	2.535	3.158	3.865	4.699
345	13.1/2	1.545	2.024	2.562	3.191	3.906	4.746
350	13.3/4	1.562	2.046	2.589	3.224	3.946	4.794
355	14	1.579	2.067	2.617	3.258	3.986	4.841
360	14.1/4	1.595	2.089	2.644	3.291	4.026	4.889
365	14.3/8	1.612	2.111	2.671	3.324	4.066	4.936
370	14.1/2	1.629	2.132	2.698	3.357	4.106	4.983
375	14.3/4	1.646	2.154	2.725	3.391	4.146	5.031
380	15	1.663	2.175	2.752	3.424	4.186	5.078
385	15.1/4	1.679	2.197	2.78	3.457	4.226	5.126
390	15.3/8	1.696	2.219	2.807	3.49	4.266	5.173
395	15.1/2	1.713	2.24	2.834	3.524	4.306	5.22
400	15.3/4	1.73	2.262	2.861	3.557	4.346	5.268
405	16	1.747	2.284	2.888	3.59	4.386	5.315
410	16.1/4	1.763	2.305	2.915	3.623	4.426	5.363
415	16.3/8	1.78	2.327	2.942	3.657	4.466	5.41
420	16.1/2	1.797	2.349	2.97	3.69	4.506	5.457
425	16.3/4	1.814	2.37	2.997	3.723	4.546	5.505
430	17	1.831	2.392	3.024	3.756	4.586	5.552
435	17.1/8	1.847	2.414	3.051	3.79	4.626	5.6
440	17.1/4	1.864	2.435	3.078	3.823	4.666	5.647
445	17.1/2	1.881	2.457	3.105	3.856	4.707	5.694
450	17.3/4	1.898	2.479	3.132	3.889	4.747	5.742
455	18	1.915	2.5	3.16	3.923	4.787	5.789
460	18.1/8	1.931	2.522	3.187	3.956	4.827	5.837
465	18.1/4	1.948	2.544	3.214	3.989	4.867	5.884
470	18.1/2	1.965	2.565	3.241	4.022	4.907	5.931
475	18.3/4	1.982	2.587	3.268	4.056	4.947	5.979
480	18.7/8	1.999	2.608	3.295	4.089	4.987	6.026
485	19	2.015	2.63	3.323	4.122	5.027	6.074
490	19.1/4	2.032	2.652	3.35	4.155	5.067	6.121
495	19.1/2	2.049	2.673	3.377	4.189	5.107	6.168
500	19.3/4	2.066	2.695	3.404	4.222	5.147	6.216



Stud Bolts Weight Chart				WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length	Length	Dia	Dia	Dia	Dia	Dia	Dia
mm(L)	inch(L)	1	1.3/4	1.7/8	2	2.1/4	2.1/2
50	2	0.554	2.333	2.83	3.394	4.667	6.282
55	2.1/4	0.571	2.389	2.894	3.467	4.761	6.398
60	2.3/8	0.587	2.444	2.958	3.54	4.854	6.515
65	2.1/2	0.604	2.5	3.022	3.613	4.948	6.631
70	2.3/4	0.621	2.555	3.086	3.686	5.041	6.748
75	3	0.638	2.611	3.15	3.759	5.135	6.864
80	3.1/8	0.655	2.666	3.214	3.832	5.228	6.981
85	3.1/4	0.671	2.722	3.278	3.905	5.322	7.097
90	3.1/2	0.688	2.777	3.342	3.978	5.415	7.214
95	3.3/4	0.705	2.833	3.406	4.051	5.509	7.33
100	4	0.722	2.888	3.47	4.124	5.602	7.447
105	4.1/8	0.739	2.944	3.534	4.197	5.696	7.563
110	4.1/4	0.755	2.999	3.598	4.27	5.789	7.68
115	4.1/2	0.772	3.055	3.662	4.343	5.883	7.796
120	4.3/4	0.789	3.11	3.726	4.416	5.976	7.913
125	5	0.806	3.166	3.79	4.489	6.07	8.029
130	5.1/8	0.823	3.221	3.854	4.562	6.163	8.146
135	5.1/4	0.839	3.277	3.918	4.635	6.257	8.262
140	5.1/2	0.856	3.33	3.982	4.708	6.35	8.379
145	5.3/4	0.873	3.388	4.046	4.781	6.444	8.495
150	6	0.89	3.443	4.11	4.854	6.537	8.612
155	6.1/8	0.907	3.499	4.174	4.927	6.631	8.728
160	6.1/4	0.923	3.554	4.238	5	6.724	8.845
165	6.1/2	0.94	3.61	4.302	5.073	6.818	8.961
170	6.3/4	0.957	3.665	4.366	5.146	6.911	9.078
175	6.7/8	0.974	3.721	4.43	5.219	7.005	9.194
180	7	0.991	3.776	4.494	5.292	7.098	9.311
185	7.1/4	1.007	3.832	4.558	5.365	7.192	9.427
190	7.1/2	1.024	3.887	4.622	5.438	7.285	9.544
195	7.3/4	1.041	3.943	4.686	5.511	7.379	9.66
200	7.7/8	1.058	3.998	4.75	5.584	7.472	9.777
205	8	1.075	4.054	4.814	5.657	7.566	9.893
210	8.1/4	1.091	4.109	4.878	5.73	7.659	10.01
215	8.1/2	1.108	4.165	4.942	5.803	7.753	10.126
220	8.3/4	1.125	4.22	5.006	5.876	7.846	10.243
225	8.7/8	1.142	4.276	5.07	5.949	7.94	10.359
230	9	1.159	4.331	5.134	6.022	8.033	10.476
235	9.1/4	1.175	4.387	5.198	6.095	8.127	10.592
240	9.1/2	1.192	4.442	5.262	6.168	8.22	10.709
245	9.5/8	1.209	4.498	5.326	6.241	8.314	10.825
250	9.3/4	1.226	4.553	5.39	6.314	8.407	10.942



Stud Bolts Weight Chart				WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length	Length	Dia	Dia	Dia	Dia	Dia	Dia
mm(L)	inch(L)	1	1.3/4	1.7/8	2	2.1/4	2.1/2
255	10	1.243	4.609	5.454	6.387	8.501	11.058
260	10.1/4	1.259	4.664	5.518	6.46	8.594	11.175
265	10.1/2	1.276	4.72	5.582	6.533	8.688	11.291
270	10.5/8	1.293	4.775	5.646	6.606	8.781	11.408
275	10.3/4	1.31	4.831	5.71	6.679	8.875	11.524
280	11	1.327	4.886	5.774	6.752	8.968	11.641
285	11.1/4	1.343	4.942	5.838	6.825	9.062	11.757
290	11.1/2	1.36	4.997	5.902	6.898	9.155	11.874
295	11.5/8	1.377	5.053	5.966	6.971	9.249	11.99
300	11.3/4	1.394	5.108	6.03	7.044	9.342	12.107
305	12	1.411	5.164	6.094	7.117	9.436	12.223
310	12.1/4	1.427	5.219	6.158	7.19	9.529	12.34
315	12.1/2	1.444	5.275	6.222	7.263	9.623	12.456
320	12.5/8	1.461	5.33	6.286	7.336	9.716	12.573
325	12.3/4	1.478	5.386	6.35	7.409	9.81	12.689
330	13	1.495	5.441	6.414	7.482	9.903	12.806
335	13.1/4	1.511	5.497	6.478	7.555	9.997	12.922
340	13.3/8	1.528	5.552	6.542	7.628	10.09	13.039
345	13.1/2	1.545	5.608	6.606	7.701	10.184	13.155
350	13.3/4	1.562	5.663	6.67	7.774	10.277	13.272
355	14	1.579	5.719	6.734	7.847	10.371	13.388
360	14.1/4	1.595	5.774	6.798	7.92	10.464	13.505
365	14.3/8	1.612	5.83	6.862	7.993	10.558	13.621
370	14.1/2	1.629	5.885	6.926	8.066	10.651	13.738
375	14.3/4	1.646	5.941	6.99	8.139	10.745	13.854
380	15	1.663	5.996	7.054	8.212	10.838	13.971
385	15.1/4	1.679	6.052	7.118	8.285	10.932	14.087
390	15.3/8	1.696	6.107	7.182	8.358	11.025	14.204
395	15.1/2	1.713	6.163	7.246	8.431	11.119	14.32
400	15.3/4	1.73	6.218	7.31	8.504	11.212	14.437
405	16	1.747	6.274	7.374	8.577	11.306	14.553
410	16.1/4	1.763	6.329	7.438	8.65	11.399	14.67
415	16.3/8	1.78	6.385	7.502	8.723	11.493	14.786
420	16.1/2	1.797	6.44	7.566	8.796	11.586	14.903
425	16.3/4	1.814	6.496	7.63	8.869	11.68	15.019
430	17	1.831	6.551	7.694	8.942	11.773	15.136
435	17.1/8	1.847	6.607	7.758	9.015	11.867	15.252
440	17.1/4	1.864	6.662	7.822	9.088	11.96	15.369
445	17.1/2	1.881	6.718	7.886	9.161	12.054	15.485
450	17.3/4	1.898	6.773	7.95	9.234	12.147	15.602
455	18	1.915	6.829	8.014	9.307	12.241	15.718
460	18.1/8	1.931	6.884	8.078	9.38	12.334	15.835
465	18.1/4	1.948	6.94	8.142	9.453	12.428	15.951
470	18.1/2	1.965	6.995	8.206	9.526	12.521	16.068
475	18.3/4	1.982	7.051	8.27	9.599	12.615	16.184
480	18.7/8	1.999	7.106	8.334	9.672	12.708	16.301
485	19	2.015	7.162	8.398	9.745	12.802	16.417
490	19.1/4	2.032	7.217	8.462	9.818	12.895	16.534
495	19.1/2	2.049	7.273	8.526	9.891	12.989	16.65
500	19.3/4	2.066	7.328	8.59	9.964	13.082	16.767



Stud Bolts Weight Chart				WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length	Length	Dia	Dia	Dia	Dia	Dia	Dia
mm(L)	inch(L)	2.3/4	3	3.1/4	3.1/2	3.3/4	4
50	2	7.953	9.769	11.97	15.499	18.579	22.948
55	2.1/4	8.094	9.938	12.173	15.735	18.844	23.253
60	2.3/8	8.236	10.108	12.375	15.971	19.109	23.557
65	2.1/2	8.377	10.277	12.578	16.207	19.374	23.862
70	2.3/4	8.519	10.447	12.78	16.443	19.639	24.166
75	3	8.66	10.616	12.983	16.679	19.904	24.47
80	3.1/8	8.802	10.786	13.185	16.915	20.169	24.775
85	3.1/4	8.943	10.955	13.388	17.151	20.434	25.079
90	3.1/2	9.085	11.125	13.59	17.387	20.699	25.384
95	3.3/4	9.226	11.294	13.793	17.623	20.964	25.688
100	4	9.368	11.464	13.995	17.859	21.229	25.992
105	4.1/8	9.509	11.633	14.198	18.095	21.494	26.297
110	4.1/4	9.651	11.803	14.4	18.331	21.759	26.601
115	4.1/2	9.792	11.972	14.603	18.567	22.024	26.906
120	4.3/4	9.934	12.142	14.805	18.803	22.289	27.21
125	5	10.075	12.311	15.008	19.039	22.554	27.514
130	5.1/8	10.217	12.481	15.21	19.275	22.819	27.819
135	5.1/4	10.358	12.65	15.413	19.511	23.084	28.123
140	5.1/2	10.5	12.82	15.615	19.747	23.349	28.428
145	5.3/4	10.641	12.989	15.818	19.983	23.614	28.732
150	6	10.783	13.159	16.02	20.219	23.879	29.036
155	6.1/8	10.924	13.328	16.223	20.455	24.144	29.341
160	6.1/4	11.066	13.498	16.425	20.691	24.409	29.645
165	6.1/2	11.207	13.667	16.628	20.927	24.674	29.95
170	6.3/4	11.349	13.837	16.83	21.163	24.939	30.254
175	6.7/8	11.49	14.006	17.033	21.399	25.204	30.558
180	7	11.632	14.176	17.235	21.635	25.469	30.863
185	7.1/4	11.773	14.345	17.438	21.871	25.734	31.167
190	7.1/2	11.915	14.515	17.64	22.107	25.999	31.472
195	7.3/4	12.056	14.684	17.843	22.343	26.264	31.776
200	7.7/8	12.198	14.854	18.045	22.579	26.529	32.08
205	8	12.339	15.023	18.248	22.815	26.794	32.385
210	8.1/4	12.481	15.193	18.45	23.051	27.059	32.689
215	8.1/2	12.622	15.362	18.653	23.287	27.324	32.994
220	8.3/4	12.764	15.532	18.855	23.523	27.589	33.298
225	8.7/8	12.905	15.701	19.058	23.759	27.854	33.602
230	9	13.047	15.871	19.26	23.995	28.119	33.907
235	9.1/4	13.188	16.04	19.463	24.231	28.384	34.211
240	9.1/2	13.33	16.21	19.665	24.467	28.649	34.516
245	9.5/8	13.471	16.379	19.868	24.703	28.914	34.82
250	9.3/4	13.613	16.549	20.07	24.939	29.179	35.124



Stud Bolts Weight Chart				WEIGHT (Kg) PER 1 PIECE Stud Bolt			
Length mm(L)	Length inch(L)	Dia	Dia	Dia	Dia	Dia	Dia
255	10	13.754	16.718	20.273	25.175	29.444	35.429
260	10.1/4	13.896	16.888	20.475	25.411	29.709	35.733
265	10.1/2	14.037	17.057	20.678	25.647	29.974	36.038
270	10.5/8	14.179	17.227	20.88	25.883	30.239	36.342
275	10.3/4	14.32	17.396	21.083	26.119	30.504	36.646
280	11	14.462	17.566	21.285	26.355	30.769	36.951
285	11.1/4	14.603	17.735	21.488	26.591	31.034	37.255
290	11.1/2	14.745	17.905	21.69	26.827	31.299	37.56
295	11.5/8	14.886	18.074	21.893	27.063	31.564	37.864
300	11.3/4	15.028	18.244	22.095	27.299	31.829	38.168
305	12	15.169	18.413	22.298	27.535	32.094	38.473
310	12.1/4	15.311	18.583	22.5	27.771	32.359	38.777
315	12.1/2	15.452	18.752	22.703	28.007	32.624	39.082
320	12.5/8	15.594	18.922	22.905	28.243	32.889	39.386
325	12.3/4	15.735	19.091	23.108	28.479	33.154	39.69
330	13	15.877	19.261	23.31	28.715	33.419	39.995
335	13.1/4	16.018	19.43	23.513	28.951	33.684	40.299
340	13.3/8	16.16	19.6	23.715	29.187	33.949	40.604
345	13.1/2	16.301	19.769	23.918	29.423	34.214	40.908
350	13.3/4	16.443	19.939	24.12	29.659	34.479	41.212
355	14	16.584	20.108	24.323	29.895	34.744	41.517
360	14.1/4	16.726	20.278	24.525	30.131	35.009	41.821
365	14.3/8	16.867	20.447	24.728	30.367	35.274	42.126
370	14.1/2	17.009	20.617	24.93	30.603	35.539	42.43
375	14.3/4	17.15	20.786	25.133	30.839	35.804	42.734
380	15	17.292	20.956	25.335	31.075	36.069	43.039
385	15.1/4	17.433	21.125	25.538	31.311	36.334	43.343
390	15.3/8	17.575	21.295	25.74	31.547	36.599	43.648
395	15.1/2	17.716	21.464	25.943	31.783	36.864	43.952
400	15.3/4	17.858	21.634	26.145	32.019	37.129	44.256
405	16	17.999	21.803	26.348	32.255	37.394	44.561
410	16.1/4	18.141	21.973	26.55	32.491	37.659	44.865
415	16.3/8	18.282	22.142	26.753	32.727	37.924	45.17
420	16.1/2	18.424	22.312	26.955	32.963	38.189	45.474
425	16.3/4	18.565	22.481	27.158	33.199	38.454	45.778
430	17	18.707	22.651	27.36	33.435	38.719	46.083
435	17.1/8	18.848	22.82	27.563	33.671	38.984	46.387
440	17.1/4	18.99	22.99	27.765	33.907	39.249	46.692
445	17.1/2	19.131	23.159	27.968	34.143	39.514	46.996
450	17.3/4	19.273	23.329	28.17	34.379	39.779	47.3
455	18	19.414	23.498	28.373	34.615	40.044	47.605
460	18.1/8	19.556	23.668	28.575	34.851	40.309	47.909
465	18.1/4	19.697	23.837	28.778	35.087	40.574	48.214
470	18.1/2	19.839	24.007	28.98	35.323	40.839	48.518
475	18.3/4	19.98	24.176	29.183	35.559	41.104	48.822
480	18.7/8	20.122	24.346	29.385	35.795	41.369	49.127
485	19	20.263	24.515	29.588	36.031	41.634	49.431
490	19.1/4	20.405	24.685	29.79	36.267	41.899	49.736
495	19.1/2	20.546	24.854	29.993	36.503	42.164	50.04
500	19.3/4	20.688	25.024	30.195	36.739	42.429	50.344



ASHWANI IMPORTS & EXPORTS

WIRE ROPE



**MINIMUM BREAKING FORCE AND WEIGHTS FOR
STANDARD 6X19 AND 6X36 CLASSIFICATION ROPES**

Diameter (in.)	Approx. wt./ft. (lb.)	FIBER CORE		IWRC		
		Minimum breaking force (tons of 2,000 lb.)		Approx. wt./ft. (lb.)	Minimum breaking force (tons of 2,000 lb.)	
		IPS	XIP®		IPS	XIP®
3/16	0.059	1.55	1.71			
1/4	0.105	2.74	3.02	0.116	2.94	3.40
5/16	0.164	4.26	4.69	0.18	4.58	5.27
3/8	0.236	6.10	6.72	0.26	6.56	7.55
7/16	0.32	8.27	9.10	0.35	8.89	10.2
1/2	0.42	10.7	11.8	0.46	11.5	13.3
9/16	0.53	13.5	14.9	0.59	14.5	16.8
5/8	0.66	16.7	18.3	0.72	17.9	20.6
3/4	0.95	23.8	26.2	1.04	25.6	29.4
7/8	1.29	32.2	35.4	1.42	34.6	39.8
1	1.68	41.8	46.0	1.85	44.9	51.7
1 1/8	2.13	52.6	57.8	2.34	56.5	65.0
1 1/4	2.63	64.6	71.1	2.89	69.4	79.9
1 3/8	3.18	77.7	85.5	3.50	83.5	96.0
1 1/2	3.78	92.0	101	4.16	98.9	114
1 5/8	4.44	107	118	4.88	115	132
1 3/4	5.15	124	137	5.67	133	153
1 7/8	5.91	141	156	6.50	152	174
2	6.72	160	176	7.39	172	198
2 1/8	7.59	179	197	8.35	192	221
2 1/4	8.51	200	220	9.36	215	247
2 3/8				10.4	239	274
2 1/2				11.6	262	302
2 5/8				12.8	288	331
2 3/4				14.0	314	361
2 7/8				15.3	341	392
3				16.6	370	425
3 1/8				18.0	399	458
3 1/4				19.5	429	492
3 3/8				21.0	459	529
3 1/2				22.7	491	564
3 5/8				24.3	523	602
3 3/4				26.0	557	641
3 7/8				27.7	591	680
4				29.6	627	720
4 1/8				31.7	658	757
4 1/4				33.3	694	799
4 3/8				35.4	734	844

Available galvanized at 10% lower strengths, or in equivalent strengths on special request.

Should not be used with a swivel.



STUD ANCHOR – THROUGH BOLT



	M 06	M 08	M 10	M 12	M 16	M 20	M 24
M 40							
M 45							
M 50							
M 60							
M 70							
M 80							
M 90							
M100							
M110							
M120							
M130							
M140							
M150							
M160							
M170							
M180							
M190							
M200							
M210							
M220							
M230							
M240							
M250							
M275							
M300							
M350							
M400							
M450							

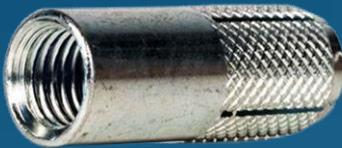
Coating : Electro Galv, Yellow, Hot Dip Galvanized

Grade 4.8, 8.8, SS304, SS316



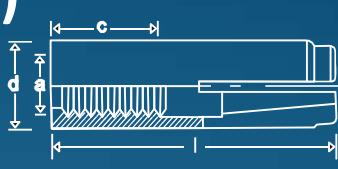
ASHWANI IMPORTS & EXPORTS

DROP IN ANCHOR (UNIFIX)



Type A – Polish

Type B – Knurling



Size A (mm)	Pitch	Anchor Outer Dia d (mm)	Anchor Length l (mm)	Safe Load (Kn)	Thread Depth C (mm)
M 06	1.00	M 08	25 MM	2.1	10
M 08	1.25	M 10	30 MM	2.8	14
M 10	1.50	M 12	40 MM	4.2	19
M 12	1.75	M 16	50 MM	6.2	22
M 16	2.00	M 20	65 MM	10.2	30
M 20	2.50	M 25	80 MM	15.7	38
M 24	3.00	M 30	110 MM	20.0	55

Coating : Electro Galv, Yellow, Hot Dip Galvanized
Grade 4.8, 8.8, SS304, SS316



EXPANSION SHIELD (FIX BOLT)

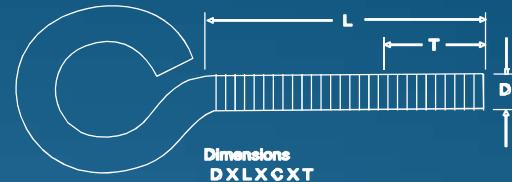


Size A (mm)	Pitch	Anchor Outer Dia d (mm)	Anchor Length l (mm)	Safe Working Load (kn)	Recmd. Torque for 300 N/mm ²	Bolt Length (mm)
M 06	1.00	M 12	45 MM	3.3 2.1	6.5	50,60,65,80,100
M 08	1.25	M 14	55 MM	4.8 4.4	15.0	60,65,75,90,100,120,140
M 10	1.50	M 16	65 MM	6.2 6.1	27.0	75,90,100,120,140,150,160
M 12	1.75	M 20	85 MM	9.7 12.4	50.0	90,100,120,140,150,170
M 16	2.00	M 25	125 MM	21.3 27.6	120.0	180,200
M 20	2.50	M 32	140 MM	31.2 36.4	230.0	150,175,200,250
M 24	3.00	M 38	160 MM	38.0 50.0	400.0	200,250,300

Coating : Electro Galv, Yellow, Hot Dip Galvanized
Grade 4.8, 8.8, SS304, SS316, Brass



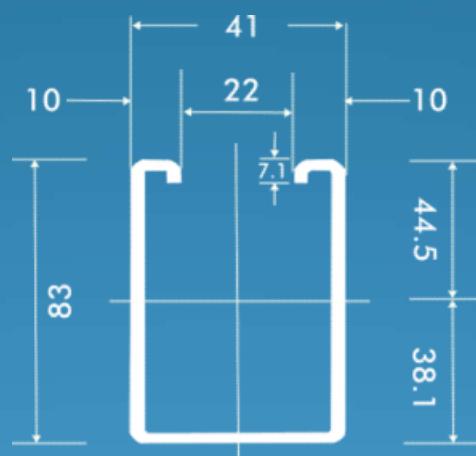
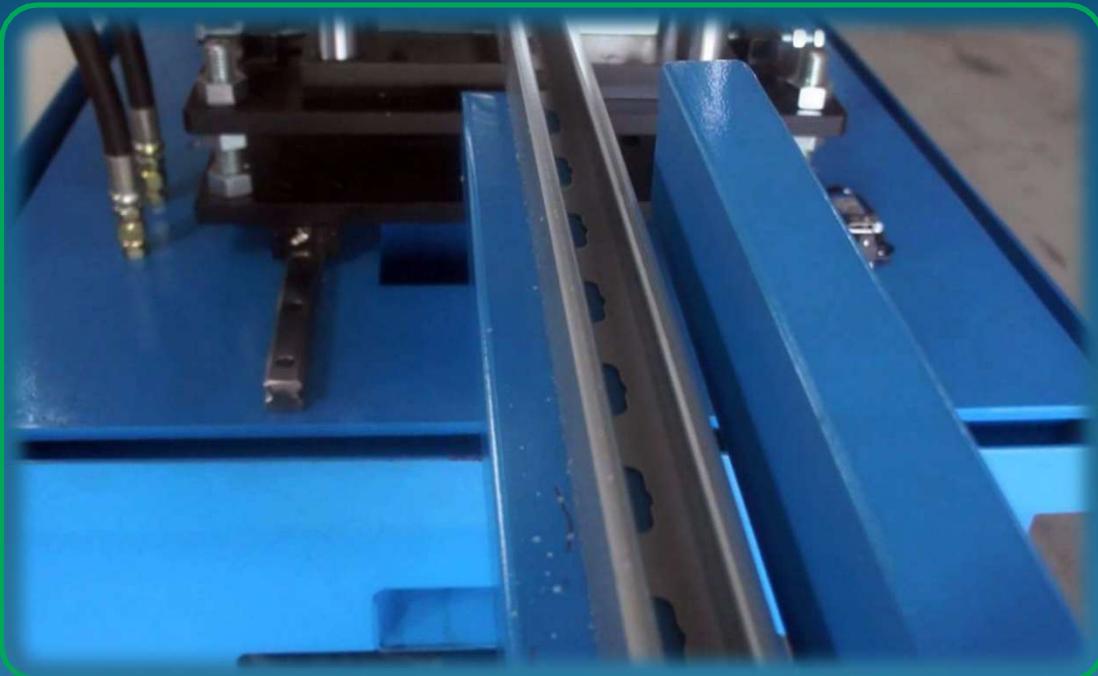
EYE BOLT CLOSE AND OPEN TYPE



Length	M 06	M 08	M 10	M 12
M 40				
M 45				
M 50				
M 60				
M 70				
M 80				
M 90				
M 100				
M 110				
M 120				
M 130				
M 140				
M 150				
M 200				
M 250				
M 300				

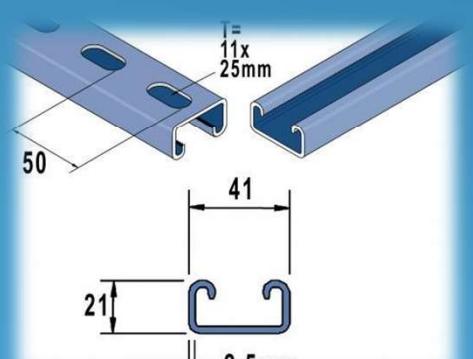
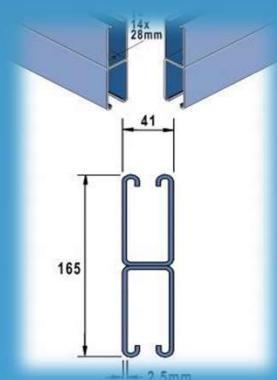
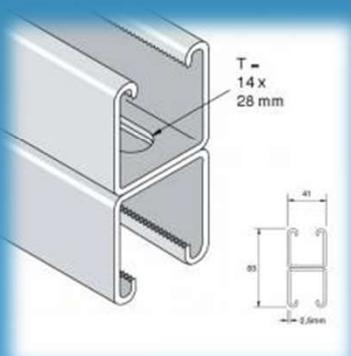
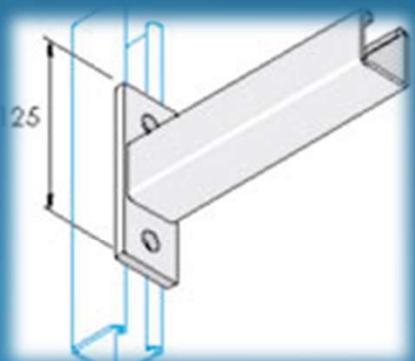
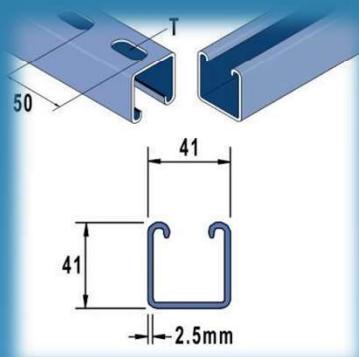
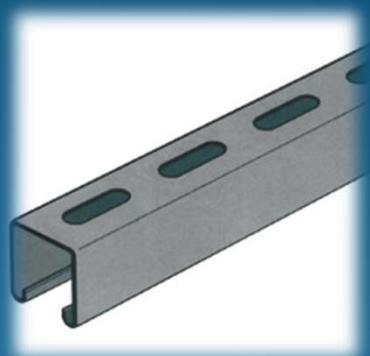
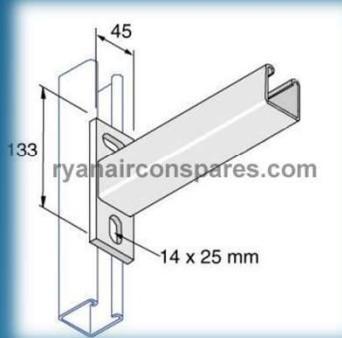
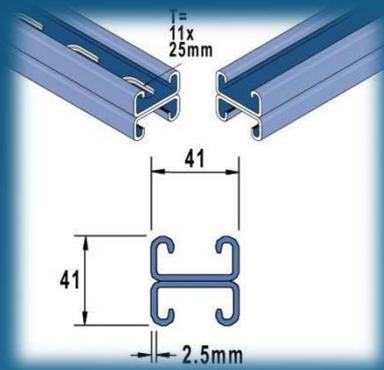
Coating : Electro Galv, Yellow, Hot Dip Galvanized
 Grade 4.8, 8.8, SS304, SS316

UNISTRUCT CHANNEL





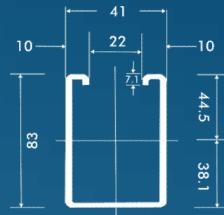
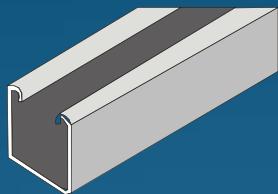
UNISTRUCT CHANNEL





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UNISTRUT CHANNEL

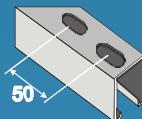


Plain Channel W1000T (41x41)

SPAN OR COLUMN UNSUPPORTED HEIGHT IN MM	UNIFORM LOAD AT 175 N/MM ² STRESS KG	DEFLECTION IN MM AT 175 N/MM ²	UNIFORM LOAD MAX. DEFLEC. OF 1/200 th SPAN KG	UNIFORM LOAD MAX. DEFLEC. OF 1/360 th SPAN KG	MAX LOAD OF COLUMN LOADED @ CENTROID KG.	MAX LOAD OF COLUMN LOADED @ SLOT FACE KG.
250	1769	0.23	-	-	5869	1693
500	884	0.95	-	-	5379	1650
750	589	2.15	-	571	4479	1554
1000	442	3.82	-	321	3373	1395
1250	353	5.97	-	205	2556	1232
1500	294	8.60	257	142	2020	1093
1750	252	11.70	188	104	1656	976
2000	221	15.29	144	80	1395	879
2250	196	19.35	114	63	1198	797
2500	176	23.89	92	51	1044	725
2750	160	28.91	76	42	(919)	(663)
3000	147	34.40	64	35	(816)	(607)

SLOTTED CHANNEL

Slotted Channel W1000T (41x41)



SPAN OR COLUMN UNSUPPORTED HEIGHT IN MM	UNIFORM LOAD AT 175 N / mm ² STRESS KG.	DEFLECTION IN MM AT 175 N / mm ²	UNIFORM LOAD MAX. DEFLEC. OF 1/200 th SPAN KG	UNIFORM LOAD MAX. DEFLEC. OF 1/360 th SPAN KG	MAX LOAD OF COLUMN LOADED @ CENTROID KG.	MAX LOAD OF COLUMN LOADED @ SLOT FACE KG.
500	819	1.05	-	-	5100	1635
750	546	2.35	-	483	4412	1557
1000	409	4.18	-	217	3284	1389
1250	327	6.54	313	174	2436	1211
1500	273	2.41	217	120	1899	1062
1750	234	12.81	159	88	1546	941
2000	204	16.73	122	67	1297	843
2250	182	21.18	96	53	1113	761
2500	163	26.15	78	43	970	691
2750	148	31.64	64	35	(855)	(631)
3000	136	37.65	54	30	(761)	(578)

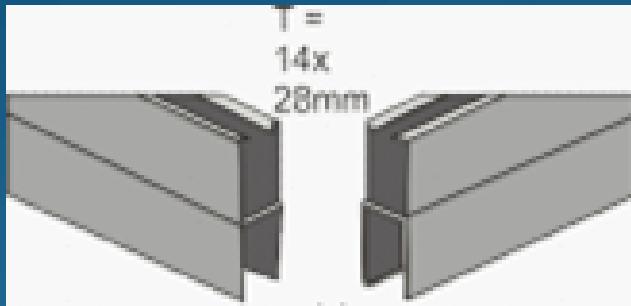
Part No	Weight	Material Thickness mm	Standard Length	Finish				Area of Section				Elements of Section AXIS - X-X		Elements of Section Axis Y-Y	
				PL	PG	HG	SS	3.35	7.21	3.10	1.46	9.23	4.47	1.66	
W1000	2.88	1.5 TO 3.0	3 Mtr	6 Mtr	PL	PG	HG	SS	3.35	7.21	3.10	1.46	9.23	4.47	1.66
W1000T	2.73	1.5 TO 3.0	3 Mtr	6 Mtr	PL	PG	HG	SS	3.00	6.10	2.87	1.42	9.14	4.44	1.74

Coating : Electro Galv, Hot Dip Galvanized

Grade A36, SS304, SS316



UNISTRUT CHANNEL - DOUBLE



Combination Channel (Back to Back) W 1001 (41 x 82)

SPAN OR COLUMN UNSUPORTED HEIGHT IN MM	UNIFORM LOAD AT 175 N/MM ² STRESS KG	DEFLECTION AT 175 N/MM ²	UNIFORM LOAD MAX. DEFLEC. OF 1/200 SPAN KG.	UNIFORM LOAD MAX. DEFLEC. OF 1/360 SPAN KG.	MAX LOAD OF COLUMN LOADED @ CENTROID KG.
-	-	-	-	11952	2880
500	-	-	-	11682	2864
750	1670	1.21	-	11186	2833
1000	1253	2.15	-	10451	2783
1250	1002	3.36	-	9305	2695
1500	835	4.84	-	7790	2551
1750	716	6.59	-	6293	2367
2000	626	8.61	-	5068	2170
2250	556	10.89	-	4127	1977
2500	501	13.45	465	3410	1796
2750	455	16.27	384	2858	1630
3000	417	19.37	323	179	(2427)
					(1480)

Part No	Weight	Material Thickness	Standard Length	Finish				Area of Section	Elements of Section Axis X-X			Elements of Section Axis Y-Y		
				Kg/m	mm				I cm ⁴	Z cm ³	r cm	I cm ⁴	Z cm ³	r cm
W10001	5.77	1.5 to 3.0	3 Mtr 6 Mtr	PL	PG	HG	SS	6.70	36.27	8.78	2.32	18.46	8.94	1.66

Coating : Electro Galv., Hotdip Galv.

Grade : ASTM A36, SS304, SS316



ASHWANI IMPORTS & EXPORTS

SLOTTED GRATING AND MAINHOLE COVERS

AIE Cast Slot



AIE Filcoten



Where constant, slow turning traffic is a major consideration, AIE Cast Slot wins top marks. Designed specifically to meet the needs of supermarket car parks and delivery / distribution areas, where load ratings can reach F900, AIE Cast Slot is now a trusted staple in surface water drainage specifications for these projects.

The unobtrusive profile of AIE Cast Slot sits neatly within concrete, asphalt, and block surface finishes. AIE features an electro painted ductile iron throat section, which is securely fixed to the galvanised steel channel body to provide an exceptionally robust yet discreet drainage system. A tread safe option is also available for areas where there is regular foot traffic. AIE is ideal for areas of vehicular traffic such as car parks and industrial units where there is slow turning traffic. Available with a 10mm or 30mm opening.

AIE Cast Slot is ideal for areas of vehicular traffic such as car parks and industrial units where there is slow turning traffic.

Product categories

Products (Pr), Services distribution products, Pipe, tube and fitting products. Drainage gullies and channels, Drainage channels with gratings)

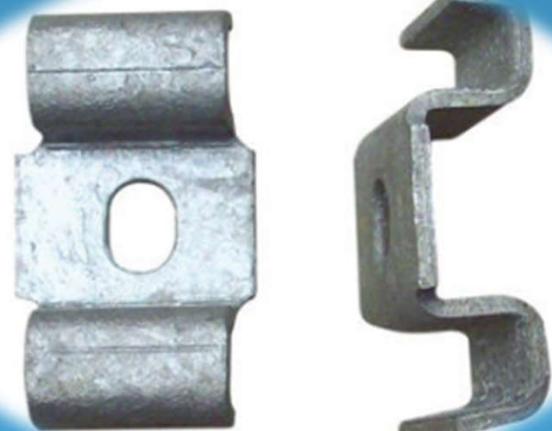
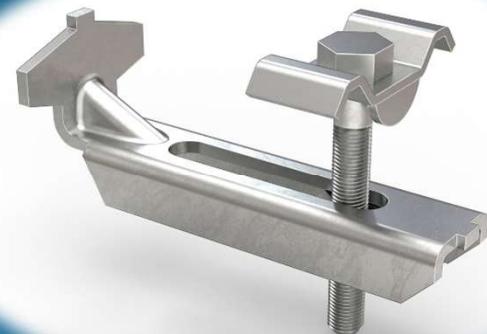
Specifications

100mm, 150mm, 225mm, 300mm, 350mm, 400mm, 500mm, 600mm

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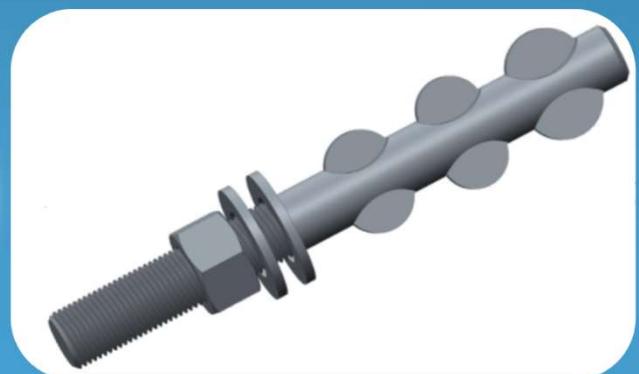
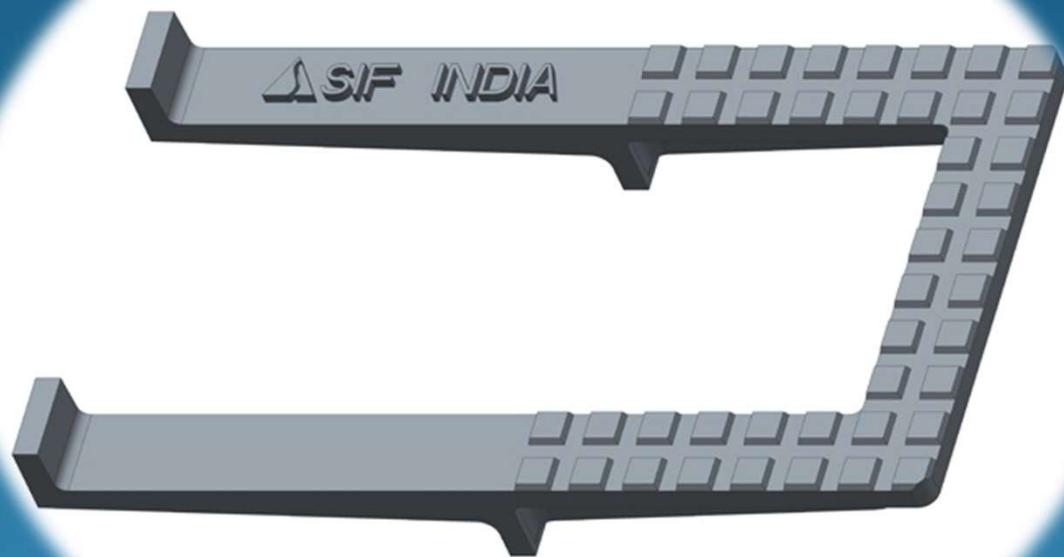
GRATING CLAMP





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SEWRAGE ACCESSORIES





THREAD

RIGHT HAND BOLTS

Right Hand Bolts are bolts with a normal coarse thread and is turned clockwise instead of anticlockwise to tighten. Coarse thread is the most common designation for general application bolts and nuts. Coarse thread is beneficial, because they are less likely to cross thread, more tolerant in adverse conditions and facilitate quick assembly. Ashwani Imports & Exports can manufacture any **SIZE** with any type **THREAD** in any **MATERIAL** and **COATINGS** you need.

LEFT HAND BOLTS

Left Hand Bolts are bolts with a reverse thread and is turned counter clockwise instead of clockwise to tighten. Used as a means to prevent bolt from coming loose in certain moving applications. Ashwani Imports & Exports can manufacture any **SIZE** with any type **THREAD** in any **MATERIAL** and **COATINGS** you need.

Fine Thread

Fine threads won't loosen as a result of the smaller thread include and off torque. With fine thread bolts, finer adjustments are made possible as a result of the small pitch. Fine thread bolts are tapped into hard materials with greater ease. Less torque is required to develop equivalent bolt preloads. Ashwani Imports & Exports can manufacture any **SIZE** with any type **THREAD** in any **MATERIAL** and **COATINGS** you need.



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Considering the size of our economy and Our potential, manufacturing and service Industry base, there is a hug potential for Exports to grow. At a time when the country Is on a AtamaNirbharBhart Mission, one Of its goals is also to increase India's Share In the global supply chain in exports manifold.

-Hon'ble Prime Minister Shri Narendra Modi

-(At an interaction with Indian Missions, Export Promotion Councils
and stakeholders of Trade & Commerce on 6th August, 2021)

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OVER THE WORLD**



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Ludhiana – Punjab

QATAR

Doha – Industrial Area

DUBAI

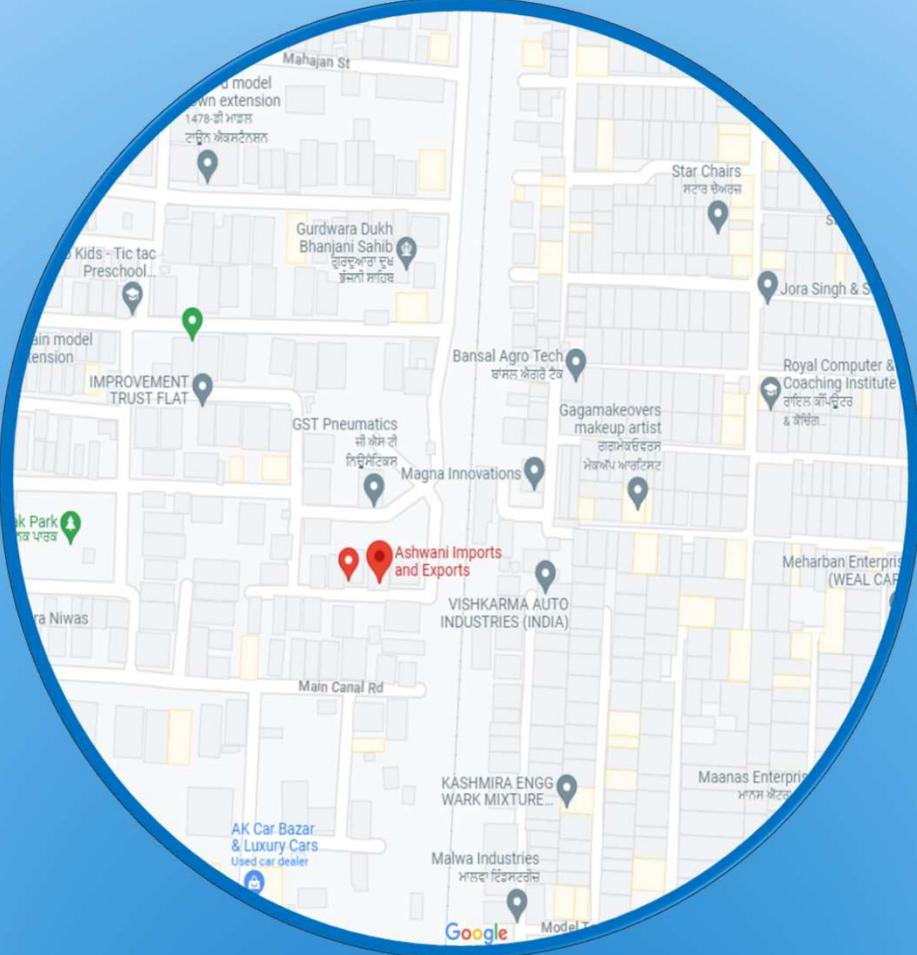
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