



Stainless Steel Fasteners and Marine Hardware

Inox World Pty Ltd

Standard Terms & Conditions of Use

Issue date of Conditions: August 2013.

The Company is predominantly a business to business supplier. This Catalogue and any other product brochures produced by the Company are intended for use by business customers and not consumers. By ordering, the Customer confirms that he, she or it wishes to obtain the Supplies for the purposes of his, her or its business and not as a consumer, and wishes to obtain the Supplies:

- (i) for the purpose of re-supply; or
- (ii) for the purpose of using them up or transforming them, in trade or commerce, in the course of a process of production or manufacture, or in the course of repairing or treating other goods or fixtures on land

1. DEFINITIONS

"Catalogue" means the catalogue (in whatever form, whether paper or electronic) in which these Conditions are set out.

"Company" means Inox World Pty Ltd ABN 12 159 993 941 of 2/12 Forsyth Close, Wetherill Park, NSW, 2164, or its permitted assigns.

"Conditions" means these terms and conditions.

"Contract" means any contract between the Company and the Customer for the sale and purchase of Supplies.

"Customer" means the person(s) or company whose order for the Supplies is accepted by the Company.

"Goods" means any goods supplied or to be supplied by the Company to the Customer, and includes their packaging and any replacement goods supplied under these Conditions.

"GST" means goods and services tax under the A New Tax System (Goods and Services Tax) Act 1999 (Cth).

"Services" means any services supplied or to be supplied by the Company to the Customer, and includes any technical advice, repair or maintenance services provided by the Company or its technical representatives in connection with Goods.

"Supplies" means any Goods or Services.

"in writing" includes electronic communications.

Reference in these Conditions to any legislation or regulation includes any re-enactment, amendment or substitution of such legislation or regulation.

2. CONDITIONS

All orders are accepted by the Company subject to and in accordance with the Terms and Conditions of Sale as shown on the Company website. These Conditions override and exclude any terms or conditions in or referred to in any negotiations or course of dealing between the Company and the Customer or set out in the Customer's standard terms and conditions to the fullest extent permitted by law.

3. PRICES AND GST

Prices stated in the Catalogue for Supplies are in Australian dollars, exclusive of GST or other duties or taxes and any applicable transport and handling charges, which will be added at the time of despatch. The Company has used all reasonable endeavours to ensure that prices for the Supplies are accurately set out in the Catalogue but these prices are not binding and the Company reserves the right to change its prices without notice at any time. Prices charged will be those prevailing when an order is accepted. The Company will issue a tax invoice to the Customer in relation to any supply that is subject to GST.

4. PAYMENT

Where credit terms have been approved, payment is due not later than 30 days from the date of statement, without any deductions, withholding or set off. Time for payment is of the essence. If the Customer fails to make payment by the due date then, without prejudice to any other right or remedy, the Company shall be entitled to:

- (i) cancel the order or suspend any further deliveries or performance;
- (ii) appropriate any payment made by the Customer to such of the Supplies (or the Supplies made under any other contract) as the Company may think fit; and
- (iii) charge interest (both before and after any judgment) on the amount unpaid at the rate of 2% per annum above the Reserve Bank of Australia's published official interest rate.

5. ORDERS

The Company reserves the right to decline to trade with any company or person, or to accept orders for Supplies in part.

To avoid duplication, written confirmation of telephone orders must be clearly marked 'Confirmation only'. The Company will not accept liability for orders not so marked and duplicate orders will be charged accordingly.

Once accepted, no order may be cancelled or reduced without the prior written agreement of a director of the Company. Without limiting the generality of this, orders for Goods which are not in catalogue or non stock items may not be cancelled. Orders for Goods are usually accepted by the Company by despatching the Goods provided, however, that despatch will not be acceptance where the price for the Supplies has been incorrectly quoted or referenced by the Customer in its order. Orders for certain Goods, in particular Goods which are not in catalogue or are non-stock items, may be subject to a minimum order quantity or value which the Company will use its reasonable endeavours to notify to the Customer prior to accepting its order.

6. DELIVERY

The Company will use all reasonable endeavours to despatch Goods ordered before 2pm Sydney time Monday to Friday (excluding public holidays) on the same day and all Goods ordered after such times the next working day, provided that those Goods are in stock.

The Company charges a standard delivery and handling cost. Any such charge will be notified to the Customer at the time of establishment of its account or placing of the order to which such charge applies. To discuss shipping options please contact us.

7. RETURNS

Prior to returning any Goods to the Company for any reason, the Customer must contact the Company to obtain a returns authorisation number ('RAN'). All Goods are returned at the Customer's risk and expense and should be undamaged by the Customer and in their original packaging. The Customer is responsible for returning Goods to the Company and for providing proof of delivery of such return.

The Company operates a 14 day return policy. To be accepted for return on this basis, Goods must be returned in their original condition for receipt by the

Company within 14 days of delivery. The Customer must return the Goods to "The Returns Department, Inox World Distribution Centre, 2/12 Forsyth Close, Wetherill Park NSW 2164" clearly quoting the Customer's account number, order number and RAN.

Any Goods returned after 14 days as 'unwanted' or 'incorrectly ordered' may be accepted at the discretion of the Company but will be subject to a restocking fee of 25% of the invoice value of the Goods (subject to a minimum charge of \$10). Goods classified as not in the catalogue or non-stock may not be returned under this Condition. The Company expressly reserves the right (without limiting its discretion under this Condition) to refuse the cancellation of any order for, or return for credit of, Goods supplied by the Company which are not in the Catalogue, are notified by the Company to be not-in-catalogue Goods.

8. DESCRIPTION

All specifications, drawings, illustrations, descriptions and particulars of weights, dimensions, capacity or other details including, without limitation, any statements regarding compliance with legislation or regulation (together "Descriptions") wherever they appear (including without limitation in this Catalogue, on despatch notes, invoices or packaging) are intended to give a general idea of the Supplies, but will not form part of the Contract. If the Description of any Goods differs from the manufacturer's description, the latter shall be deemed to be correct. The Company shall take all reasonable steps to ensure the accuracy of Descriptions but relies on such information, if any, as may have been provided to it by its suppliers and to the fullest extent possible by law excludes all liability in contract or tort or under statute or otherwise for any error in or omission from such Descriptions whether caused by the Company's negligence or otherwise. The Company may make changes to the Supplies as part of a continuous programme of improvement or to comply with legislation.

9. INTELLECTUAL PROPERTY RIGHTS

The Company owns full copyright in respect of this Catalogue and its reproduction in whole or part is prohibited without the Company's prior written consent.

10. PROMOTIONS

In the event that the Company sends promotional material to the Customer in relation to goods or services available from the Company, these Conditions shall apply to all Supplies purchased from such material.

11. LEGAL CONSTRUCTION

All Contracts shall be governed by and interpreted in accordance with New South Wales law and the Customer submits to the jurisdiction of the New South Wales Courts and Courts able to hear appeals from those Courts, but the Company may enforce such Contract in any court of competent jurisdiction.



Company Info	2
Product Index	4
Bolts	8
Allthread & Studs	24
Anchors	28
Nuts	30
Washers	42
Metal Thread Screws	52
Socket Screws	60
Wood And Self Tapping Screws	70
Self Drilling Screws	78
Pins	82
Wire Rope & Balustrade	84
Hardware	98
Technical Information	115
Purchase Order Form	123

Welcome to Inox World

The most reliable choice for all your stainless steel fastener and marine hardware

Inox World is a wholesale supplier and distributor of a wide range of stainless fasteners and hardware, poised to become a strong market leader in Australia and New Zealand. With over 10 years' experience in overseas markets and over ten thousand satisfied customers, we are confident that our knowledge, selection, and competitive pricing will quickly distinguish us from the competition. Inox World is an industry expert when it comes to stainless steel fastening products and we understand our customers' needs. From construction and heavy industry to marine and ship-building businesses, our team has the know-how and product offerings you seek. We

are confident, that regardless of your business or industry you will find what you need at the most attractive prices.

Inox World specialises in stainless steel fasteners and marine hardware of the highest quality available. Our inventory of stainless steel fasteners and marine hardware are durable, non-corrosive, non-magnetic and aesthetically compatible with almost any application. Our product range covers virtually every type of stainless steel fasteners and marine hardware from bolts, screws and nuts, to washers, rivets, wire rope and fittings. If it is not in stock, our dedicated sales team will help you to meet your requirements.

Inox World is the most reliable choice because we strive to offer:

- Market competitive prices
- Maintaining strong stock holdings to meet customers' demands
- Fast Delivery Australia wide: same day, overnight services
- We offer every client an individual approach

Contact your Inox World representative today to learn more about how Inox World can become your preferred partner and supplier of stainless steel fasteners and marine hardware.

Company History

Inox World is a fully-owned subsidiary of a leading European supplier of stainless steel fasteners. Our parent company, Best Fasteners was founded in 2003 and quickly grew to become the market leader. The company expanded its sales presence by opening additional offices across Europe. With its newly established Sydney office and expanding Australian team, Inox World and Best Fasteners are well suited, equipped and ready to become a market leader in Australia and the South Pacific.

The Inox World Commitment to Quality

The Inox World team is dedicated to providing its customers with the highest quality products. We adhere to strict levels of quality control in everything we do:

Products:

Inox World specialises in stainless steel fasteners. Stainless steel represents one of the most high quality materials available across a number of industries and a wide variety of applications. Stainless Steel is one of the most advantageous alloys for fasteners because of its durability, resistance to corrosion, high heat tolerance, aesthetic appearance and long life span. Our specialty is stainless steel fasteners

because, they are simply the best fastener available.

Shipment & Delivery:

Our warehouse and logistics teams work hard to maintain international standards and procedures for safe and clean warehousing operations and storage. We also verify every outgoing shipment with purchase orders to ensure customers receive exactly what they ordered.



Payment and Delivery

Delivery

Inox World provides prompt delivery services to both Sydney metro and outer areas. Orders for in-stock products will be delivered to our distributors twice daily for Sydney Metro and prompt services are employed for distributors outside of these areas.

We also offer a pickup service for distributors. We use a network of reliable partners to expedite orders as quickly as possible. If you

are purchasing out-of-stock material or custom orders, our sales team will give you accurate lead time and delivery information.

Payment

Trading account: Trading terms are available for our distributors who meet the required criteria.

Payments: Distributors can make payments by credit card, business cheque or EFT.

Product Index

Code	Picture	Name	Page	Material	DIN/ISO	UNC	BSW
XHB		Hexagon Head Bolt	8	A2 / A4	DIN 931 ISO 4014	●	
XHS		Hexagon Head Set Screw / Bolt	14	A2 / A4	DIN 933 ISO 4017	●	●
XCS		Hexagon Head Coach Screw	21	A4	DIN 571		
CHB		Cup Head Square Neck Bolt	22	A4	DIN 603 ISO 8677		
ATR		Threaded Rod	24	A2/A4	DIN 975 DIN 976	●	●
EST		Engineering Stud	27	A4	DIN 938		
SAN		Sleeve Anchor	28	A4			
DIN		Drop In Anchor	28	A4			
STA		Stud Anchor	29	A4			
XNU		Hexagon Nut	30	A2/A4	DIN 934	●	●
XLN		Hexagon Lock Nut	33	A2/A4	DIN 439		
XNN		Nylon Insert Lock Nut	34	A2/A4	DIN 985	●	
XIW		Hex Inox Loch Nut	36	A2			
XCN		Hexagon Cap Nut	36	A2	DIN 917		
DNU		Dome Nut	37	A2/A4	DIN 1587	●	
DN2		Welded Dome Nut	38	A2			
WNU		Wing Nut	39	A2/A4	DIN 315 AF		
CNU		Hexagon Coupling Nut	39	A4	DIN 6334		
XFN		Hexagon Flange Nut	40	A2/A4	DIN 6923		
FRW		Flat Round Washer - Standard Metric & Imperial	42	A2/A4	IW STD		
FWA		Flat Round Washer	45	A2/A4	DIN 125 A		
FWM		Flat Round Washer - Mudguard	46	A2/A4	DIN 9021		
FWS		Flat Round Washer - Small O.D	47	A2	DIN 433		
FSW		Flat Square Washer	47	A4			
SWA		Spring Washer	48	A2/A4	DIN 127B		
CWA		Cup Washer	50	A2			
BWA		Belleville Washer	50	A2			
ILW		Tooth Lock Washer	51	A2	DIN 6798J		
ELW		Tooth Lock Washer	51	A2	DIN 6798A		
CPS		Metal Thread Screw	52	A2/A4	DIN 965		●
PPS		Metal Thread Screw	56	A2/A4	DIN 7985		●
SCS		Socket Screw - Hex	60	A2/A4	DIN 912 ISO 4762		
BCS		Socket Screw	64	A2/A4	ISO 7380		
CCS		Socket Screw - Countersunk	66	A2/A4	DIN 7991		
SSS		Set Screw - Cup Point	68	A2	DIN 916		

Product Index

Code	Picture	Name	Page	Material	DIN/ISO
BBS		Bugle Batten Screw	70	A2/A4	
SDS		Decking Screw T17	71	A2/A4	
SDT		Decking Screw T17 - Trim head	71	A2	
CST		Self Tapping Screw - Countersunk Phillips	72	A2/A4	DIN 7982C
PST		Self Tapping Screw - Pan Phillips	74	A2/A4	DIN 7981C
CSQ		Self Tapping Screw - Countersunk Square Drive	76	A2	DIN 7982 V
PSQ		Self Tapping Screw - Pan Square Drive	77	A2	DIN 7982
XDS		Self Drilling Screw - Hex Flange	78	A2	DIN 7504K
CDS		Self Drilling Screw - Countersunk Phillips	79	A2	DIN 7504 O
PDS		Self Drilling Screw - Pan Phillips	80	A2	DIN 7504 M
SPI		Split Pins	82	A2	DIN 94
WRO		Wire Rope	84	A4	
RSC		Rigging Screw / Pipe Turnbuckle Jaw/Swage	86	A4	
RSS		Rigging Screw / Pipe Turnbuckle Swage/Swage	86	A4	
RLS		Rigging Screw / Pipe Turnbuckle Lag/Swage	86	A4	
RTB		Rigging Screw / Pipe Turnbuckle Jaw/Jaw	87	A4	
TJJ		Turnbuckle Open Body Jaw/Jaw	87	A4	
TEE		Turnbuckle Open Body Eye/Eye	88	A4	
THE		Turnbuckle Open Body Hook/Eye	88	A4	
THH		Turnbuckle Open Body Hook/Hook	89	A4	
FTE		Fork Terminals Jaw/Swage	89	A4	
STE		Swage Stud Terminal	90	A4	
LES		Eye Screws - Lag	90	A4	
LST		Terminal - Lag/Swage	91	A4	
ETE		Eye Terminals	91	A4	
WES		Wire Eye Strap	92	A2/A4	
SEP		Eye Pad - Square	93	A2	
DTS		Double Thread Screw	93	A4	
NPS		Hand Swage	94	Copper	
NGR		Nylon Grommet	94	Nylon	
CTI		Countersunk Timber Insert	95	A4	
CPW		Cable Pivot Washer	95	A4	
MEB		Mini Eye Bolt	96	A4	
RNS		Rivet Nuts - Small Flange	96	A2	
RNL		Rivet Nuts - Large Flange	96	A2	

Product Index

Code	Picture	Name	Page	Material	DIN/ISO
WRG		Wire Rope Grip	97	A4	
WRT		Wire Rope Thimble	97	A4	
EBO		Eye Bolt with Nut & Washer	98	A2	
EBO		Eye Bolt	98	A4	DIN 580
LEN		Eye Nut	99	A4	
UBO		U Bolt with Nuts, Washers & Base Plate	100	A2	
UBO		U Bolt with Nuts	100	A4	
SH0		Spring Hooks - No Eye	101	A4	
SHE		Spring Hooks - With Eye	101	A4	
SH2		Snap Hook - Asymetric	102	A4	
SSH		Spring Snap Hook Cast	102	A4	
SSB		Swivel Snap Bolt	102	A4	
SH3		S Hook	103	A2	
PHO		Pelican Hook	103	A4	
CSL		Chain - Short Link	104	A2/A4	DIN 766
CML		Chain - Medium/Regular Link	105	A4	
CLI		C Link	105	A4	
QLI		Quick Link	105	A4	
DSH		D Shackle - Standard	106	A4	
DSL		D Shackle - Long	106	A4	
DSC		D Shackle - Captive Pin	107	A4	
BSH		Bow Shackle	107	A4	
TSH		Twist Shackle	108	A4	
SSH		Strap Shackle	108	A2	
SEE		Swivel - Eye/Eye	109	A4	
SJJ		Swivel - Jaw/Jaw	109	A4	
RRI		Round Rings	110	A4	
DRI		D Ring	110	A4	
BHI		Butt Hinge	111	A2	
PHI		Piano Hinge - Undrilled	111	A2	
HCW		Hose Clamp - All Stainless	112	A2	DIN 3017
RIV		Blind Rivets - All Stainless	113	A2	
TLA		Toggle Latch	113	A2	
LPI		Linch Pin	113	A2	

PRODUCT CATALOGUE

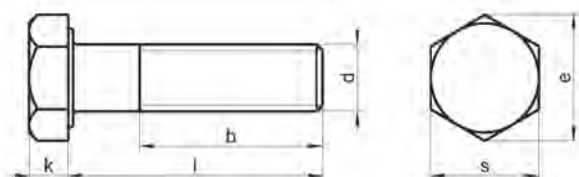


XHB

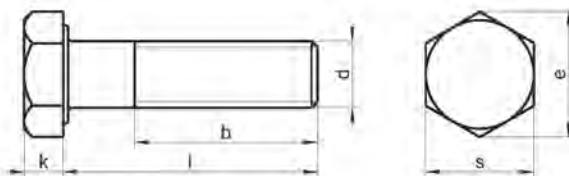
Hexagon Head Bolt

DIN 931
ISO 4014**A2 304**

Stainless steel



b for L ≤ 125	18	22	26	30	38	46	54	
b for L ≥ 125	24	28	32	36	44	52	60	
s	10	13	17	19	24	30	36	
k min.	3.85	5.15	6.22	7.32	9.82	12.285	14.78	
e	11.05	14.38	18.9	21.1	26.75	33.53	39.98	
b	10	13	17	19	24	30	36	
Length (l)	Size (d)	M6	M8	M10	M12	M16	M20	M24
30	Part Number	XHBA2M6X30	XHBA2M8X30					
	Std Pack	100	100					
35	Part Number	XHBA2M6X35	XHBA2M8X35	XHBA2M10X35				
	Std Pack	100	100	100				
40	Part Number	XHBA2M6X40	XHBA2M8X40	XHBA2M10X40	XHBA2M12X40			
	Std Pack	100	100	100	50			
45	Part Number	XHBA2M6X45	XHBA2M8X45	XHBA2M10X45	XHBA2M12X45			
	Std Pack	100	100	100	50			
50	Part Number	XHBA2M6X50	XHBA2M8X50	XHBA2M10X50	XHBA2M12X50	XHBA2M16X50		
	Std Pack	100	100	100	25	25		
55	Part Number	XHBA2M6X55	XHBA2M8X55	XHBA2M10X55	XHBA2M12X55	XHBA2M16X55		
	Std Pack	50	50	50	25	25		
60	Part Number	XHBA2M6X60	XHBA2M8X60	XHBA2M10X60	XHBA2M12X60	XHBA2M16X60	XHBA2M20X60	
	Std Pack	50	50	50	25	25	25	
65	Part Number	XHBA2M6X65	XHBA2M8X65	XHBA2M10X65	XHBA2M12X65	XHBA2M16X65	XHBA2M20X65	
	Std Pack	50	50	50	25	25	25	
70	Part Number	XHBA2M6X70	XHBA2M8X70	XHBA2M10X70	XHBA2M12X70	XHBA2M16X70	XHBA2M20X70	XHBA2M24X70
	Std Pack	50	50	50	25	25	25	10
75	Part Number	XHBA2M6X75	XHBA2M8X75	XHBA2M10X75	XHBA2M12X75	XHBA2M16X75	XHBA2M20X75	XHBA2M24X75
	Std Pack	50	50	50	25	25	20	10
80	Part Number	XHBA2M6X80	XHBA2M8X80	XHBA2M10X80	XHBA2M12X80	XHBA2M16X80	XHBA2M20X80	XHBA2M24X80
	Std Pack	50	50	50	25	25	20	10
90	Part Number	XHBA2M6X90	XHBA2M8X90	XHBA2M10X90	XHBA2M12X90	XHBA2M16X90	XHBA2M20X90	XHBA2M24X90
	Std Pack	50	50	50	25	25	10	10
100	Part Number	XHBA2M6X100	XHBA2M8X100	XHBA2M10X100	XHBA2M12X100	XHBA2M16X100	XHBA2M20X100	XHBA2M24X100
	Std Pack	50	50	50	25	25	10	10
110	Part Number		XHBA2M8X110	XHBA2M10X110	XHBA2M12X110	XHBA2M16X110	XHBA2M20X110	XHBA2M24X110
	Std Pack		25	25	25	25	10	10
120	Part Number		XHBA2M8X120	XHBA2M10X120	XHBA2M12X120	XHBA2M16X120	XHBA2M20X120	XHBA2M24X120
	Std Pack		25	25	25	25	10	10
130	Part Number		XHBA2M8X130	XHBA2M10X130	XHBA2M12X130	XHBA2M16X130	XHBA2M20X130	XHBA2M24X130
	Std Pack		25	25	25	20	10	10
140	Part Number		XHBA2M8X140	XHBA2M10X140	XHBA2M12X140	XHBA2M16X140	XHBA2M20X140	XHBA2M24X140
	Std Pack		25	25	25	20	10	10
150	Part Number		XHBA2M8X150	XHBA2M10X150	XHBA2M12X150	XHBA2M16X150	XHBA2M20X150	XHBA2M24X150
	Std Pack		25	25	25	20	10	10
160	Part Number			XHBA2M10X160	XHBA2M12X160	XHBA2M16X160	XHBA2M20X160	XHBA2M24X160
	Std Pack			25	25	20	10	10
170	Part Number			XHBA2M10X170	XHBA2M12X170	XHBA2M16X170	XHBA2M20X170	XHBA2M24X170
	Std Pack			25	25	10	10	10
180	Part Number			XHBA2M10X180	XHBA2M12X180	XHBA2M16X180	XHBA2M20X180	XHBA2M24X180
	Std Pack			25	25	10	10	10
200	Part Number			XHBA2M10X200	XHBA2M12X200	XHBA2M16X200	XHBA2M20X200	XHBA2M24X200
	Std Pack			25	25	10	10	10



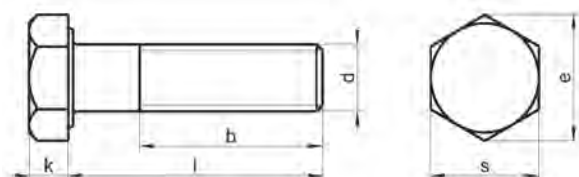
b for L ≤ 125		18	22	26	30	38
b for L ≥ 125		24	28	32	36	44
b for L ≥ 200		37	41	45	49	57
s		10	13	17	19	24
k min.		3.85	5.15	6.22	7.32	9.82
e		11.05	14.38	18.9	21.1	26.75
b		10	13	17	19	24
Length (l)	Size (d)	M6	M8	M10	M12	M16
30	Part Number	XHBA4M6X30				
	Std Pack	100				
35	Part Number	XHBA4M6X35	XHBA4M8X35			
	Std Pack	100	100			
40	Part Number	XHBA4M6X40	XHBA4M8X40	XHBA4M10X40	XHBA4M12X40	
	Std Pack	100	100	100	50	
45	Part Number	XHBA4M6X45	XHBA4M8X45	XHBA4M10X45	XHBA4M12X45	
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50	Part Number	XHBA4M6X50	XHBA4M8X50	XHBA4M10X50	XHBA4M12X50	XHBA4M16X50
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55	Part Number	XHBA4M6X55	XHBA4M8X55	XHBA4M10X55	XHBA4M12X55	XHBA4M16X55
	Std Pack	50	50	50	25	25
60	Part Number	XHBA4M6X60	XHBA4M8X60	XHBA4M10X60	XHBA4M12X60	XHBA4M16X60
	Std Pack	50	50	50	25	25
65	Part Number	XHBA4M6X65	XHBA4M8X65	XHBA4M10X65	XHBA4M12X65	XHBA4M16X65
	Std Pack	50	50	50	25	25
70	Part Number	XHBA4M6X70	XHBA4M8X70	XHBA4M10X70	XHBA4M12X70	XHBA4M16X70
	Std Pack	50	50	50	25	25
75	Part Number	XHBA4M6X75	XHBA4M8X75	XHBA4M10X75	XHBA4M12X75	XHBA4M16X75
	Std Pack	50	50	50	25	25
80	Part Number	XHBA4M6X80	XHBA4M8X80	XHBA4M10X80	XHBA4M12X80	XHBA4M16X80
	Std Pack	50	50	50	25	25
90	Part Number	XHBA4M6X90	XHBA4M8X90	XHBA4M10X90	XHBA4M12X90	XHBA4M16X90
	Std Pack	50	50	50	25	25
100	Part Number	XHBA4M6X100	XHBA4M8X100	XHBA4M10X100	XHBA4M12X100	XHBA4M16X100
	Std Pack	50	50	50	25	25
110	Part Number		XHBA4M8X110	XHBA4M10X110	XHBA4M12X110	XHBA4M16X110
	Std Pack		25	25	25	25
120	Part Number		XHBA4M8X120	XHBA4M10X120	XHBA4M12X120	XHBA4M16X120
	Std Pack		25	25	25	25
130	Part Number		XHBA4M8X130	XHBA4M10X130	XHBA4M12X130	XHBA4M16X130
	Std Pack		25	25	25	20
140	Part Number		XHBA4M8X140	XHBA4M10X140	XHBA4M12X140	XHBA4M16X140
	Std Pack		25	25	25	20
150	Part Number		XHBA4M8X150	XHBA4M10X150	XHBA4M12X150	XHBA4M16X150
	Std Pack		25	25	25	20
160	Part Number			XHBA4M10X160	XHBA4M12X160	XHBA4M16X160
	Std Pack			25	25	20
170	Part Number			XHBA4M10X170	XHBA4M12X170	XHBA4M16X170
	Std Pack			25	10	10
180	Part Number			XHBA4M10X180	XHBA4M12X180	XHBA4M16X180
	Std Pack			25	25	10
200	Part Number			XHBA4M10X200	XHBA4M12X200	XHBA4M16X200
	Std Pack			25	25	10
220	Part Number			XHBA4M10X220	XHBA4M12X220	XHBA4M16X220
	Std Pack			10	10	10
240	Part Number			XHBA4M10X240	XHBA4M12X240	XHBA4M16X240
	Std Pack			10	10	10
250	Part Number			XHBA4M10X250	XHBA4M12X250	XHBA4M16X250
	Std Pack			10	10	10
260	Part Number			XHBA4M10X260	XHBA4M12X260	XHBA4M16X260
	Std Pack			10	10	10
280	Part Number			XHBA4M10X280	XHBA4M12X280	XHBA4M16X280
	Std Pack			10	10	10
300	Part Number			XHBA4M10X300	XHBA4M12X300	XHBA4M16X300
	Std Pack			10	10	10

XHB

Hexagon Head Bolt

DIN 931
ISO 4014**A4 316**

Stainless steel



b for L ≤ 125		46	54	60	66	72
b for L ≥ 125		52	60	66	72	78
b for L ≥ 200		65	73	79	85	91
s		30	36	41	46	50
k min.		12.285	14.78	16.65	18.28	20.58
e		33.53	39.98	45.2	50.85	55.37
b		30	36	41	46	50
Length (l)	Size (d)	M20	M24	M27	M30	M33
60	Part Number	XHBA4M20X60				
	Std Pack	25				
65	Part Number	XHBA4M20X65				
	Std Pack	25				
70	Part Number	XHBA4M20X70	XHBA4M24X70			
	Std Pack	25	10			
75	Part Number	XHBA4M20X75	XHBA4M24X75			
	Std Pack	20	20			
80	Part Number	XHBA4M20X80	XHBA4M24X80			
	Std Pack	20	10			
90	Part Number	XHBA4M20X90	XHBA4M24X90		XHBA4M30X90	
	Std Pack	10	10		5	
100	Part Number	XHBA4M20X100	XHBA4M24X100	XHBA4M27X100	XHBA4M30X100	XHBA4M33X100
	Std Pack	10	10	5	5	1
110	Part Number	XHBA4M20X110	XHBA4M24X110	XHBA4M27X110	XHBA4M30X110	XHBA4M33X110
	Std Pack	10	10	5	5	1
120	Part Number	XHBA4M20X120	XHBA4M24X120	XHBA4M27X120	XHBA4M30X120	XHBA4M33X120
	Std Pack	10	10	5	5	1
130	Part Number	XHBA4M20X130	XHBA4M24X130	XHBA4M27X130	XHBA4M30X130	XHBA4M33X130
	Std Pack	10	10	5	5	1
140	Part Number	XHBA4M20X140	XHBA4M24X140	XHBA4M27X140	XHBA4M30X140	XHBA4M33X140
	Std Pack	10	10	5	5	1
150	Part Number	XHBA4M20X150	XHBA4M24X150	XHBA4M27X150	XHBA4M30X150	XHBA4M33X150
	Std Pack	10	10	5	5	1
160	Part Number	XHBA4M20X160	XHBA4M24X160	XHBA4M27X160	XHBA4M30X160	XHBA4M33X160
	Std Pack	10	10	5	5	1
170	Part Number	XHBA4M20X170	XHBA4M24X170	XHBA4M27X170	XHBA4M30X170	XHBA4M33X170
	Std Pack	10	10	5	5	1
180	Part Number	XHBA4M20X180	XHBA4M24X180	XHBA4M27X180	XHBA4M30X180	XHBA4M33X180
	Std Pack	10	10	5	5	1
200	Part Number	XHBA4M20X200	XHBA4M24X200	XHBA4M27X200	XHBA4M30X200	XHBA4M33X200
	Std Pack	10	10	5	5	1
220	Part Number	XHBA4M20X220	XHBA4M24X220			XHBA4M33X220
	Std Pack	10	10			1
240	Part Number	XHBA4M20X240	XHBA4M24X240			
	Std Pack	10	10			
250	Part Number	XHBA4M20X250	XHBA4M24X250			XHBA4M33X250
	Std Pack	10	10			1
260	Part Number	XHBA4M20X260	XHBA4M24X260			
	Std Pack	10	10			
280	Part Number	XHBA4M20X280	XHBA4M24X280			
	Std Pack	10	10			
300	Part Number	XHBA4M20X300	XHBA4M24X300			
	Std Pack	10	10			

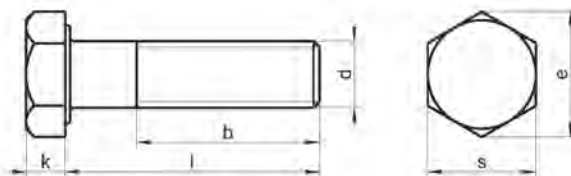
A2 304

Stainless steel

Hexagon Head Bolt

XHB

UNC



	k	5/32	13/64	15/64	5/16	25/64	15/32
	s	7/16	1/2	9/16	3/4	15/16	1 1/8
	e	0.505	0.577	0.65	0.866	1.083	1.299
Length (l)	Size (d)	1/4	5/16	3/8	1/2	5/8	3/4
1 1/4	Part Number	XHBA214UNCX114					
	Std Pack	100					
1 1/2	Part Number	XHBA214UNCX112	XHBA2516UNCX112	XHBA238UNCX112			
	Std Pack	100	100	100			
1 3/4	Part Number	XHBA214UNCX134	XHBA2516UNCX134	XHBA238UNCX134			
	Std Pack	100	100	100			
2	Part Number	XHBA214UNCX2	XHBA2516UNCX2	XHBA238UNCX2	XHBA212UNCX2	XHBA258UNCX2	
	Std Pack	100	100	100	100	25	
2 1/4	Part Number	XHBA214UNCX214	XHBA2516UNCX214	XHBA238UNCX214	XHBA212UNCX214	XHBA258UNCX214	
	Std Pack	100	100	100	100	25	
2 1/2	Part Number	XHBA214UNCX212	XHBA2516UNCX212	XHBA238UNCX212	XHBA212UNCX212	XHBA258UNCX212	XHBA234UNCX212
	Std Pack	50	50	50	25	25	25
3	Part Number	XHBA214UNCX3	XHBA2516UNCX3	XHBA238UNCX3	XHBA212UNCX3	XHBA258UNCX3	XHBA234UNCX3
	Std Pack	50	50	50	25	25	20
3 1/2	Part Number	XHBA214UNCX312	XHBA2516UNCX312	XHBA238UNCX312	XHBA212UNCX312	XHBA258UNCX312	XHBA234UNCX312
	Std Pack	50	50	50	25	25	10
4	Part Number	XHBA214UNCX4	XHBA2516UNCX4	XHBA238UNCX4	XHBA212UNCX4	XHBA258UNCX4	XHBA234UNCX4
	Std Pack	50	50	50	25	25	10
4 1/2	Part Number				XHBA212UNCX412	XHBA258UNCX412	XHBA234UNCX412
	Std Pack				25	25	10
5	Part Number				XHBA212UNCX5	XHBA258UNCX5	XHBA234UNCX5
	Std Pack				25	20	10
5 1/2	Part Number				XHBA212UNCX512	XHBA258UNCX512	XHBA234UNCX512
	Std Pack				25	20	10
6	Part Number				XHBA212UNCX6	XHBA258UNCX6	XHBA234UNCX6
	Std Pack				25	20	10

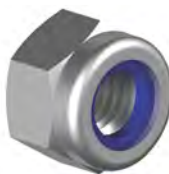
Nuts And Washers



Standard Nuts
Page 30



Standard Washers
Page 42



Lock Nuts
Page 34



Spring Washers
Page 48

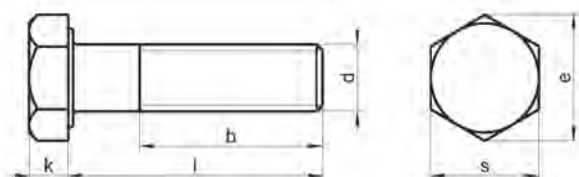
XHB

Hexagon Head Bolt

UNC

A4 316

Stainless steel



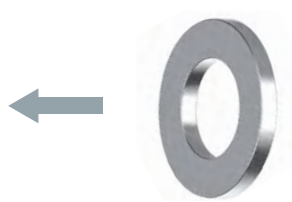
	k	5/32	13/64	15/64	9/32
	s	7/16	1/2	9/16	5/8
	e	0.505	0.577	0.65	0.722
Length (l)	Size (d)	1/4	5/16	3/8	7/16
1 1/4	Part Number	XHBA414UNCX114			
	Std Pack	100			
1 1/2	Part Number	XHBA414UNCX112	XHBA4516UNCX112	XHBA438UNCX112	
	Std Pack	100	100	100	
1 3/4	Part Number	XHBA414UNCX134	XHBA4516UNCX134	XHBA438UNCX134	
	Std Pack	100	100	100	
2	Part Number	XHBA414UNCX2	XHBA4516UNCX2	XHBA438UNCX2	XHBA4716UNCX2
	Std Pack	100	100	100	50
2 1/4	Part Number	XHBA414UNCX214	XHBA4516UNCX214	XHBA438UNCX214	
	Std Pack	100	100	50	
2 1/2	Part Number	XHBA414UNCX212	XHBA4516UNCX212	XHBA438UNCX212	XHBA4716UNCX212
	Std Pack	50	50	50	25
3	Part Number	XHBA414UNCX3	XHBA4516UNCX3	XHBA438UNCX3	XHBA4716UNCX3
	Std Pack	50	50	50	25
3 1/2	Part Number	XHBA414UNCX312	XHBA4516UNCX312	XHBA438UNCX312	
	Std Pack	50	50	50	
4	Part Number	XHBA414UNCX4	XHBA4516UNCX4	XHBA438UNCX4	
	Std Pack	50	50	50	
4 1/2	Part Number			XHBA438UNCX412	
	Std Pack			25	
5	Part Number			XHBA438UNCX5	
	Std Pack			25	
5 1/2	Part Number			XHBA438UNCX512	
	Std Pack			25	
6	Part Number			XHBA438UNCX6	
	Std Pack			25	

Nut And Washer Sizes

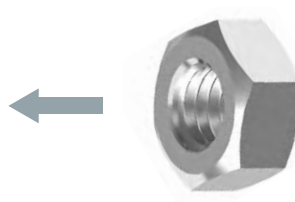
Nut and washer sizes indicate **the screw or bolt they fit**. For example:



3/8" Hex Bolt



3/8" Washer



3/8" Nut

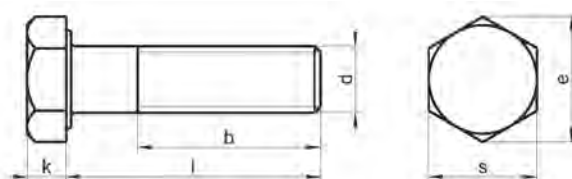
A4 316

Stainless steel

Hexagon Head Bolt

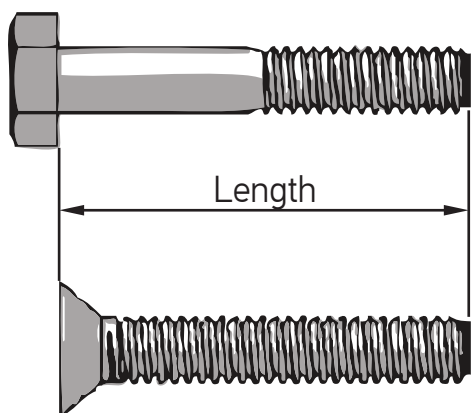
XHB

UNC



k		5/16	25/64	15/32	35/64	39/64
s		3/4	15/16	1 1/8	1 5/16	1 1/2
e		0.866	1.083	1.299	1.516	1.732
Length (l)	Size (d)	1/2	5/8	3/4	7/8	1
2	Part Number	XHBA412UNCX2	XHBA458UNCX2			
	Std Pack	50	25			
2 1/4	Part Number	XHBA412UNCX214	XHBA458UNCX214			
	Std Pack	25	25			
2 1/2	Part Number	XHBA412UNCX212	XHBA458UNCX212	XHBA434UNCX212		
	Std Pack	25	25	20		
3	Part Number	XHBA412UNCX3	XHBA458UNCX3	XHBA434UNCX3	XHBA478UNCX3	XHBA41UNCX3
	Std Pack	25	25	20	10	10
3 1/2	Part Number	XHBA412UNCX312	XHBA458UNCX312	XHBA434UNCX312	XHBA478UNCX312	XHBA41UNCX312
	Std Pack	25	25	10	10	10
4	Part Number	XHBA412UNCX4	XHBA458UNCX4	XHBA434UNCX4	XHBA478UNCX4	XHBA41UNCX4
	Std Pack	25	25	10	10	10
4 1/2	Part Number	XHBA412UNCX412	XHBA458UNCX412	XHBA434UNCX412		
	Std Pack	25	25	10		
5	Part Number	XHBA412UNCX5	XHBA458UNCX5	XHBA434UNCX5	XHBA478UNCX5	XHBA41UNCX5
	Std Pack	25	20	10	10	10
5 1/2	Part Number	XHBA412UNCX512	XHBA458UNCX512	XHBA434UNCX512		
	Std Pack	25	20	10		
6	Part Number	XHBA412UNCX6	XHBA458UNCX6	XHBA434UNCX6	XHBA478UNCX6	XHBA41UNCX6
	Std Pack	25	20	10	10	10

Measuring Bolts



Fastener length is usually measured from where the material is to be to the end of the fastener.

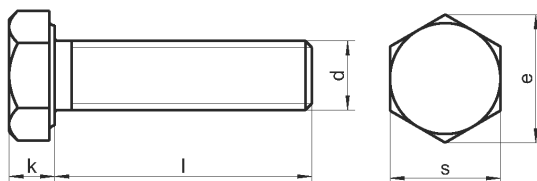
Countersunk fasteners are measured overall and non-countersunk fasteners are measured from under the head.

XHS

Hexagon Head Set Screw / Bolt

DIN 933
ISO 4017**A2 304**

Stainless steel

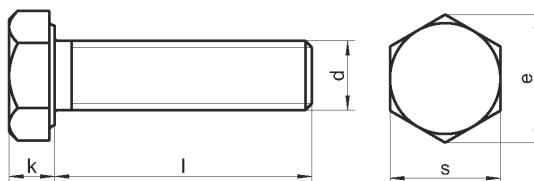


k		2.0	2.8	3.5	4.0	5.3	6.4
s		6	7	8	10	13	17
e		6.01	7.66	8.79	11.05	14.38	18.90
●		6	7	8	10	13	17
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10
8	Part Number	XHSA2M3X8	XHSA2M4X8	XHSA2M5X8	XHSA2M6X8		
	Std Pack	100	100	100	100		
10	Part Number	XHSA2M3X10	XHSA2M4X10	XHSA2M5X10	XHSA2M6X10	XHSA2M8X10	
	Std Pack	100	100	100	100	100	
12	Part Number	XHSA2M3X12	XHSA2M4X12	XHSA2M5X12	XHSA2M6X12	XHSA2M8X12	XHSA2M10X12
	Std Pack	100	100	100	100	100	100
16	Part Number	XHSA2M3X16	XHSA2M4X16	XHSA2M5X16	XHSA2M6X16	XHSA2M8X16	XHSA2M10X16
	Std Pack	100	100	100	100	100	100
20	Part Number	XHSA2M3X20	XHSA2M4X20	XHSA2M5X20	XHSA2M6X20	XHSA2M8X20	XHSA2M10X20
	Std Pack	100	100	100	100	100	100
25	Part Number	XHSA2M3X25	XHSA2M4X25	XHSA2M5X25	XHSA2M6X25	XHSA2M8X25	XHSA2M10X25
	Std Pack	100	100	100	100	100	100
30	Part Number	XHSA2M3X30	XHSA2M4X30	XHSA2M5X30	XHSA2M6X30	XHSA2M8X30	XHSA2M10X30
	Std Pack	100	100	100	100	100	100
35	Part Number		XHSA2M4X35	XHSA2M5X35	XHSA2M6X35	XHSA2M8X35	XHSA2M10X35
	Std Pack		100	100	100	100	100
40	Part Number		XHSA2M4X40	XHSA2M5X40	XHSA2M6X40	XHSA2M8X40	XHSA2M10X40
	Std Pack		100	100	100	100	100
45	Part Number			XHSA2M5X45	XHSA2M6X45	XHSA2M8X45	XHSA2M10X45
	Std Pack			100	100	100	100
50	Part Number		XHSA2M4X50	XHSA2M5X50	XHSA2M6X50	XHSA2M8X50	XHSA2M10X50
	Std Pack		100	100	100	100	100
55	Part Number				XHSA2M6X55	XHSA2M8X55	XHSA2M10X55
	Std Pack				50	50	50
60	Part Number			XHSA2M5X60	XHSA2M6X60	XHSA2M8X60	XHSA2M10X60
	Std Pack			100	50	50	50
65	Part Number				XHSA2M6X65	XHSA2M8X65	XHSA2M10X65
	Std Pack				50	50	50
70	Part Number				XHSA2M6X70	XHSA2M8X70	XHSA2M10X70
	Std Pack				50	50	50
75	Part Number				XHSA2M6X75	XHSA2M8X75	XHSA2M10X75
	Std Pack				50	50	50
80	Part Number				XHSA2M6X80	XHSA2M8X80	XHSA2M10X80
	Std Pack				50	50	50
90	Part Number				XHSA2M6X90	XHSA2M8X90	XHSA2M10X90
	Std Pack				50	50	50
100	Part Number				XHSA2M6X100	XHSA2M8X100	XHSA2M10X100
	Std Pack				50	50	50
110	Part Number					XHSA2M8X110	XHSA2M10X110
	Std Pack					25	25
120	Part Number					XHSA2M8X120	XHSA2M10X120
	Std Pack					25	25
130	Part Number					XHSA2M8X130	XHSA2M10X130
	Std Pack					25	25
140	Part Number					XHSA2M8X140	XHSA2M10X140
	Std Pack					25	25
150	Part Number					XHSA2M8X150	XHSA2M10X150
	Std Pack					25	25

A2 304

Stainless steel

Hexagon Head Set Screw / Bolt

DIN 933
ISO 4017**XHS**

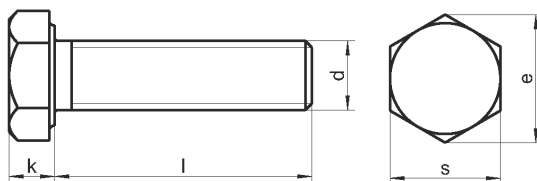
	k	7.5	8.8	10.0	12.5	15
	s	19	22	24	30	36
	e	21.10	24.49	26.75	33.53	39.98
	●	19	22	24	30	36
Length (l)	Size (d)	M12	M14	M16	M20	M24
20	Part Number	XHSA2M12X20				
	Std Pack	100				
25	Part Number	XHSA2M12X25	XHSA2M14X25	XHSA2M16X25		
	Std Pack	100	25	25		
30	Part Number	XHSA2M12X30	XHSA2M14X30	XHSA2M16X30	XHSA2M20X30	
	Std Pack	100	25	25	25	
35	Part Number	XHSA2M12X35	XHSA2M14X35	XHSA2M16X35	XHSA2M20X35	
	Std Pack	100	25	25	25	
40	Part Number	XHSA2M12X40	XHSA2M14X40	XHSA2M16X40	XHSA2M20X40	XHSA2M24X40
	Std Pack	50	25	25	25	10
45	Part Number	XHSA2M12X45	XHSA2M14X45	XHSA2M16X45	XHSA2M20X45	XHSA2M24X45
	Std Pack	50	25	25	25	10
50	Part Number	XHSA2M12X50	XHSA2M14X50	XHSA2M16X50	XHSA2M20X50	XHSA2M24X50
	Std Pack	50	25	25	25	10
55	Part Number	XHSA2M12X55	XHSA2M14X55	XHSA2M16X55	XHSA2M20X55	XHSA2M24X55
	Std Pack	25	25	25	25	10
60	Part Number	XHSA2M12X60	XHSA2M14X60	XHSA2M16X60	XHSA2M20X60	XHSA2M24X60
	Std Pack	25	25	25	25	10
65	Part Number	XHSA2M12X65	XHSA2M14X65	XHSA2M16X65	XHSA2M20X65	XHSA2M24X65
	Std Pack	25	25	25	25	10
70	Part Number	XHSA2M12X70	XHSA2M14X70	XHSA2M16X70	XHSA2M20X70	XHSA2M24X70
	Std Pack	25	25	25	25	10
75	Part Number	XHSA2M12X75		XHSA2M16X75	XHSA2M20X75	XHSA2M24X75
	Std Pack	25		25	20	10
80	Part Number	XHSA2M12X80	XHSA2M14X80	XHSA2M16X80	XHSA2M20X80	XHSA2M24X80
	Std Pack	25	25	25	20	10
90	Part Number	XHSA2M12X90	XHSA2M14X90	XHSA2M16X90	XHSA2M20X90	XHSA2M24X90
	Std Pack	25	25	25	10	10
100	Part Number	XHSA2M12X100	XHSA2M14X100	XHSA2M16X100	XHSA2M20X100	XHSA2M24X100
	Std Pack	25		25	10	10
110	Part Number	XHSA2M12X110		XHSA2M16X110	XHSA2M20X110	XHSA2M24X110
	Std Pack	25		25	10	10
120	Part Number	XHSA2M12X120		XHSA2M16X120	XHSA2M20X120	XHSA2M24X120
	Std Pack	25		25	10	10
130	Part Number	XHSA2M12X130		XHSA2M16X130	XHSA2M20X130	XHSA2M24X130
	Std Pack	25		20	10	10
140	Part Number	XHSA2M12X140		XHSA2M16X140	XHSA2M20X140	XHSA2M24X140
	Std Pack	25		20	10	10
150	Part Number	XHSA2M12X150		XHSA2M16X150	XHSA2M20X150	XHSA2M24X150
	Std Pack	25		20	10	10

XHS

Hexagon Head Set Screw / Bolt

DIN 933
ISO 4017**A4 316**

Stainless steel

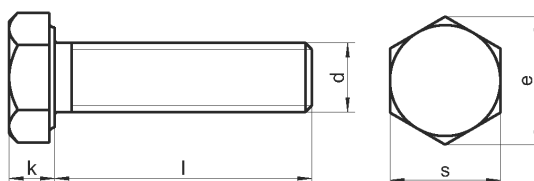


	k	2.8	3.5	4.0	5.3	6.4	7.5	8.8
	s	7	8	10	13	17	19	22
	e	7.66	8.79	11.05	14.38	18.90	21.10	24.49
	●	7	8	10	13	17	19	22
Length (l)	Size (d)	M4	M5	M6	M8	M10	M12	M14
8	Part Number	XHSA4M4X8						
	Std Pack	100						
10	Part Number	XHSA4M4X10	XHSA4M5X10	XHSA4M6X10	XHSA4M8X10			
	Std Pack	100	100	100	100			
12	Part Number	XHSA4M4X12	XHSA4M5X12	XHSA4M6X12	XHSA4M8X12	XHSA4M10X12		
	Std Pack	100	100	100	100	100		
16	Part Number	XHSA4M4X16	XHSA4M5X16	XHSA4M6X16	XHSA4M8X16	XHSA4M10X16		
	Std Pack	100	100	100	100	100		
20	Part Number	XHSA4M4X20	XHSA4M5X20	XHSA4M6X20	XHSA4M8X20	XHSA4M10X20	XHSA4M12X20	
	Std Pack	100	100	100	100	100	50	
25	Part Number	XHSA4M4X25	XHSA4M5X25	XHSA4M6X25	XHSA4M8X25	XHSA4M10X25	XHSA4M12X25	XHSA4M14X25
	Std Pack	100	100	100	100	100	50	50
30	Part Number		XHSA4M5X30	XHSA4M6X30	XHSA4M8X30	XHSA4M10X30	XHSA4M12X30	XHSA4M14X30
	Std Pack		100	100	100	100	50	50
35	Part Number		XHSA4M5X35	XHSA4M6X35	XHSA4M8X35	XHSA4M10X35	XHSA4M12X35	XHSA4M14X35
	Std Pack		100	100	100	100	50	50
40	Part Number		XHSA4M5X40	XHSA4M6X40	XHSA4M8X40	XHSA4M10X40	XHSA4M12X40	XHSA4M14X40
	Std Pack		100	100	100	100	50	50
45	Part Number		XHSA4M5X45	XHSA4M6X45	XHSA4M8X45	XHSA4M10X45	XHSA4M12X45	XHSA4M14X45
	Std Pack		100	100	100	100	50	50
50	Part Number		XHSA4M5X50	XHSA4M6X50	XHSA4M8X50	XHSA4M10X50	XHSA4M12X50	XHSA4M14X50
	Std Pack		100	100	100	100	25	25
55	Part Number			XHSA4M6X55	XHSA4M8X55	XHSA4M10X55	XHSA4M12X55	
	Std Pack			25	25	25	25	
60	Part Number		XHSA4M5X60	XHSA4M6X60	XHSA4M8X60	XHSA4M10X60	XHSA4M12X60	XHSA4M14X60
	Std Pack		100		50	50	25	25
65	Part Number			XHSA4M6X65	XHSA4M8X65	XHSA4M10X65	XHSA4M12X65	
	Std Pack			50	50	50	25	
70	Part Number			XHSA4M6X70	XHSA4M8X70	XHSA4M10X70	XHSA4M12X70	XHSA4M14X70
	Std Pack			50	50	50	25	25
75	Part Number			XHSA4M6X75	XHSA4M8X75	XHSA4M10X75	XHSA4M12X75	
	Std Pack			50	50	50	25	
80	Part Number			XHSA4M6X80	XHSA4M8X80	XHSA4M10X80	XHSA4M12X80	XHSA4M14X80
	Std Pack			50	50	50	25	25
90	Part Number			XHSA4M6X90	XHSA4M8X90	XHSA4M10X90	XHSA4M12X90	XHSA4M14X90
	Std Pack			50	50	50	25	25
100	Part Number			XHSA4M6X100	XHSA4M8X100	XHSA4M10X100	XHSA4M12X100	XHSA4M14X100
	Std Pack			50	50	50	25	
110	Part Number				XHSA4M8X110	XHSA4M10X110	XHSA4M12X110	
	Std Pack				25	25	25	
120	Part Number				XHSA4M8X120	XHSA4M10X120	XHSA4M12X120	
	Std Pack				25	25	25	
130	Part Number				XHSA4M8X130	XHSA4M10X130	XHSA4M12X130	
	Std Pack				25	25	25	
140	Part Number				XHSA4M8X140	XHSA4M10X140	XHSA4M12X140	
	Std Pack				25	25	25	
150	Part Number				XHSA4M8X150	XHSA4M10X150	XHSA4M12X150	
	Std Pack				25	25	25	

A4 316

Stainless steel

Hexagon Head Set Screw / Bolt

XHSDIN 933
ISO 4017

	k	10.0	11.5	12.5	14	15	17	18.7
	s	24	27	30	32	36	41	46
	e	26.75	30.14	33.53	35.72	39.98	45.20	50.85
	●	24	27	30	32	36	41	46
Length (l)	Size (d)	M16	M18	M20	M22	M24	M27	M30
25	Part Number	XHSA4M16X25						
	Std Pack	25						
30	Part Number	XHSA4M16X30			XHSA4M20X30			
	Std Pack	25		25				
35	Part Number	XHSA4M16X35			XHSA4M20X35			
	Std Pack	25		25				
40	Part Number	XHSA4M16X40			XHSA4M20X40		XHSA4M24X40	
	Std Pack	25		25		25		
45	Part Number	XHSA4M16X45			XHSA4M20X45		XHSA4M24X45	
	Std Pack	25		25		25		
50	Part Number	XHSA4M16X50	XHSA4M18X50	XHSA4M20X50	XHSA4M22X50	XHSA4M24X50		
	Std Pack	25	25	25	10	10		
55	Part Number	XHSA4M16X55			XHSA4M20X55		XHSA4M24X55	
	Std Pack	25		25		10		
60	Part Number	XHSA4M16X60	XHSA4M18X60	XHSA4M20X60	XHSA4M22X60	XHSA4M24X60		
	Std Pack	25	25	25	10	10		
65	Part Number	XHSA4M16X65	XHSA4M18X65	XHSA4M20X65		XHSA4M24X65		
	Std Pack	25	25	25		10		
70	Part Number	XHSA4M16X70	XHSA4M18X70	XHSA4M20X70	XHSA4M22X70	XHSA4M24X70	XHSA4M27X70	
	Std Pack	25	25	25	10	10	10	
75	Part Number	XHSA4M16X75			XHSA4M20X75		XHSA4M24X75	
	Std Pack	25		20		10		
80	Part Number	XHSA4M16X80	XHSA4M18X80	XHSA4M20X80	XHSA4M22X80	XHSA4M24X80	XHSA4M27X80	
	Std Pack	25	25	20	10	10	10	
90	Part Number	XHSA4M16X90	XHSA4M18X90	XHSA4M20X90	XHSA4M22X90	XHSA4M24X90	XHSA4M27X90	XHSA4M30X90
	Std Pack	25	25	10	10	10	10	10
100	Part Number	XHSA4M16X100	XHSA4M18X100	XHSA4M20X100	XHSA4M22X100	XHSA4M24X100		
	Std Pack	25	25	10	10	10		
110	Part Number	XHSA4M16X110			XHSA4M20X110		XHSA4M24X110	
	Std Pack	25		10		10		
120	Part Number	XHSA4M16X120			XHSA4M20X120		XHSA4M24X120	
	Std Pack	25		10		10		
130	Part Number	XHSA4M16X130			XHSA4M20X130		XHSA4M24X130	
	Std Pack	20		10		10		
140	Part Number	XHSA4M16X140			XHSA4M20X140		XHSA4M24X140	
	Std Pack	20		10		10		
150	Part Number	XHSA4M16X150			XHSA4M20X150		XHSA4M24X150	
	Std Pack	20		10		10		

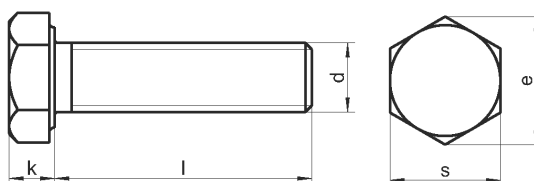
XHS

Hexagon Head Set Screw / Bolt

A2 304

UNC

Stainless steel



	k	5/32	13/64	15/64	5/16	25/64
	s	7/16	1/2	9/16	3/4	15/16
	e	0.505	0.577	0.65	0.866	1.083
Length (l)	Size (d)	1/4	5/16	3/8	1/2	5/8
3/8	Part Number	XHSA214UNCX38				
	Std Pack	100				
1/2	Part Number	XHSA214UNCX12	XHSA2516UNCX12	XHSA238UNCX12		
	Std Pack	100	100	100		
5/8	Part Number	XHSA214UNCX58	XHSA2516UNCX58	XHSA238UNCX58		
	Std Pack	100	100	100		
3/4	Part Number	XHSA214UNCX34	XHSA2516UNCX34	XHSA238UNCX34	XHSA212UNCX34	
	Std Pack	100	100	100	100	
1	Part Number	XHSA214UNCX1	XHSA2516UNCX1	XHSA238UNCX1	XHSA212UNCX1	XHSA258UNCX1
	Std Pack	100	100	100	100	25
1 1/4	Part Number	XHSA214UNCX114	XHSA2516UNCX114	XHSA238UNCX114	XHSA212UNCX114	XHSA258UNCX114
	Std Pack	100	100	100	100	25
1 1/2	Part Number	XHSA214UNCX112	XHSA2516UNCX112	XHSA238UNCX112	XHSA212UNCX112	XHSA258UNCX112
	Std Pack	100	100	100	100	25
2	Part Number	XHSA214UNCX2	XHSA2516UNCX2	XHSA238UNCX2	XHSA212UNCX2	XHSA258UNCX2
	Std Pack	100	100	100	100	25
2 1/2	Part Number	XHSA214UNCX212	XHSA2516UNCX212	XHSA238UNCX212	XHSA212UNCX212	XHSA258UNCX212
	Std Pack	50	50	50	25	25
3	Part Number	XHSA214UNCX3	XHSA2516UNCX3	XHSA238UNCX3	XHSA212UNCX3	XHSA258UNCX3
	Std Pack	50	50	50	25	25
4	Part Number	XHSA214UNCX4	XHSA2516UNCX4	XHSA238UNCX4	XHSA212UNCX4	XHSA258UNCX4
	Std Pack	50	50	50	25	25

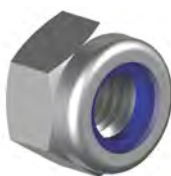
Nuts And Washers



Standard Nuts
Page 30



Standard Washers
Page 42



Lock Nuts
Page 34



Spring Washers
Page 48

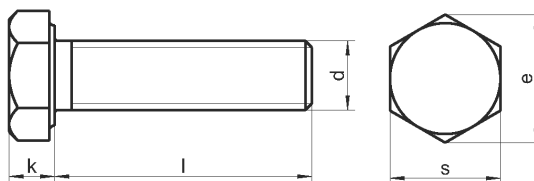
A4 316

Stainless steel

Hexagon Head Set Screw / Bolt

XHS

UNC



k		5/32	13/64	15/64	9/32	5/16
s		7/16	1/2	9/16	5/8	3/4
e		0.505	0.577	0.65	0.722	0.866
Length (l)	Size (d)	1/4	5/16	3/8	7/16	1/2
1/2	Part Number	XHSA414UNCX12	XHSA4516UNCX12	XHSA438UNCX12		
	Std Pack	100	100	100		
5/8	Part Number	XHSA414UNCX58	XHSA4516UNCX58	XHSA438UNCX58		
	Std Pack	100	100	100		
3/4	Part Number	XHSA414UNCX34	XHSA4516UNCX34	XHSA438UNCX34		XHSA412UNCX34
	Std Pack	100	100	100		100
1	Part Number	XHSA414UNCX1	XHSA4516UNCX1	XHSA438UNCX1	XHSA4716UNCX1	XHSA412UNCX1
	Std Pack	100	100	100	100	100
1 1/4	Part Number	XHSA414UNCX114	XHSA4516UNCX114	XHSA438UNCX114	XHSA4716UNCX114	XHSA412UNCX114
	Std Pack	100	100	100	100	100
1 1/2	Part Number	XHSA414UNCX112	XHSA4516UNCX112	XHSA438UNCX112	XHSA4716UNCX112	XHSA412UNCX112
	Std Pack	100	100	100	50	100
2	Part Number	XHSA414UNCX2	XHSA4516UNCX2	XHSA438UNCX2		XHSA412UNCX2
	Std Pack	100	100	100		100
2 1/2	Part Number	XHSA414UNCX212	XHSA4516UNCX212	XHSA438UNCX212		XHSA412UNCX212
	Std Pack	50	50	50		25
3	Part Number	XHSA414UNCX3	XHSA4516UNCX3	XHSA438UNCX3		XHSA412UNCX3
	Std Pack	50	50	50		25
4	Part Number	XHSA414UNCX4	XHSA4516UNCX4	XHSA438UNCX4		XHSA412UNCX4
	Std Pack	50	50	50		25

k		25/64	15/32	35/64	39/64
s		15/16	1 1/8	1 5/16	1 1/2
e		1.083	1.299	1.516	1.469
Length (l)	Size (d)	5/8	3/4	7/8	1
1	Part Number	XHSA458UNCX1			
	Std Pack	25			
1 1/4	Part Number	XHSA458UNCX114	XHSA434UNCX114		
	Std Pack	25	25		
1 1/2	Part Number	XHSA458UNCX112	XHSA434UNCX112		
	Std Pack	25	25		
2	Part Number	XHSA458UNCX2	XHSA434UNCX2	XHSA478UNCX2	XHSA41UNCX2
	Std Pack	25	25	25	25
2 1/2	Part Number	XHSA458UNCX212	XHSA434UNCX212	XHSA478UNCX212	XHSA41UNCX212
	Std Pack	25	25	25	25
3	Part Number	XHSA458UNCX3	XHSA434UNCX3	XHSA478UNCX3	XHSA47UNCX3
	Std Pack	25	20	20	20
4	Part Number	XHSA458UNCX4	XHSA434UNCX4	XHSA478UNCX4	XHSA41UNCX4
	Std Pack	25	10	10	10

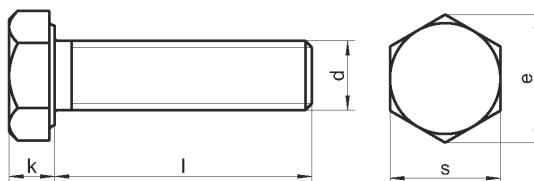
XHS

Hexagon Head Set Screw / Bolt

A2 304

Stainless steel

BSW



	k	
	s	
	e	
	●	
Length (l)	Size (d)	3/16
3/8	Part Number	XHSA2316BSWX38
	Std Pack	100
1/2	Part Number	XHSA2316BSWX12
	Std Pack	100
5/8	Part Number	XHSA2316BSWX58
	Std Pack	100
3/4	Part Number	XHSA2316BSWX34
	Std Pack	100
1	Part Number	XHSA2316BSWX1
	Std Pack	100
1 1/4	Part Number	XHSA2316BSWX114
	Std Pack	100
1 1/2	Part Number	XHSA2316BSWX112
	Std Pack	100
2	Part Number	XHSA2316BSWX2
	Std Pack	100

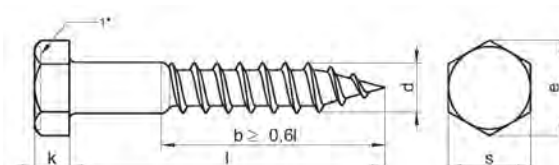
XHS

Hexagon Head Set Screw / Bolt

A4 316

BSW

Length (l)	Size (d)	3/16	1/2
3/8	Part Number	XHSA4316BSWX38	
	Std Pack	100	
1/2	Part Number	XHSA4316BSWX12	
	Std Pack	100	
5/8	Part Number	XHSA4316BSWX58	
	Std Pack	100	
3/4	Part Number	XHSA4316BSWX34	XHSA412BSWX34
	Std Pack	100	100
1	Part Number	XHSA4316BSWX1	XHSA412BSWX1
	Std Pack	100	100
1 1/4	Part Number	XHSA4316BSWX114	XHSA412BSWX114
	Std Pack	100	100
1 1/2	Part Number	XHSA4316BSWX112	XHSA412BSWX112
	Std Pack	100	50
2	Part Number	XHSA4316BSWX2	XHSA412BSWX2
	Std Pack	100	50
2 1/2	Part Number		XHSA412BSWX212
	Std Pack		25
3	Part Number		XHSA412BSWX3
	Std Pack		25
4	Part Number		XHSA412BSWX4
	Std Pack		25



k		4.0	5.5	7.0	8.0
s		10	13	17	19
e		10.89	14.20	18.72	20.88
●		10	13	17	19
Length (l)	Size (d)	M6	M8	M10	M12
30	Part Number	XCSA4M6X30	XCSA4M8X30		
	Std Pack	100	50		
40	Part Number	XCSA4M6X40	XCSA4M8X40	XCSA4M10X40	XCSA4M12X40
	Std Pack	100	50	50	25
50	Part Number	XCSA4M6X50	XCSA4M8X50	XCSA4M10X50	XCSA4M12X50
	Std Pack	100	50	50	25
65	Part Number	XCSA4M6X65	XCSA4M8X65	XCSA4M10X65	XCSA4M12X65
	Std Pack	50	50	25	25
75	Part Number	XCSA4M6X75	XCSA4M8X75	XCSA4M10X75	XCSA4M12X75
	Std Pack	50	50	25	25
100	Part Number	XCSA4M6X100	XCSA4M8X100	XCSA4M10X100	XCSA4M12X100
	Std Pack	50	50	25	25
120	Part Number	XCSA4M6X120	XCSA4M8X120	XCSA4M10X120	XCSA4M12X120
	Std Pack	25	25	25	25
150	Part Number			XCSA4M10X150	XCSA4M12X150
	Std Pack			25	25

Head Styles



Hex heads are typically used with larger bolt and screws.



Round heads are tall domed heads, used primarily for a decorative purposes.



Pan heads have a slightly domed head that sits above the surface.



Socket heads are narrow with a socket drive, and knurled or smooth sides.



Countersunk heads are installed in a countersunk hole for a flat surface.



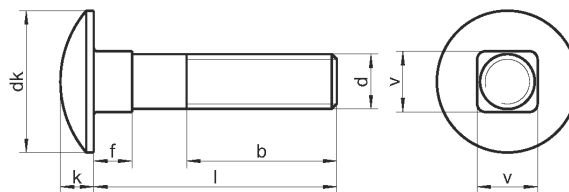
Button heads feature a medium dome. Typically used with hex socket drive.

CHB

Cup Head Square Neck Bolt

DIN 603
ISO 8677**A4 316**

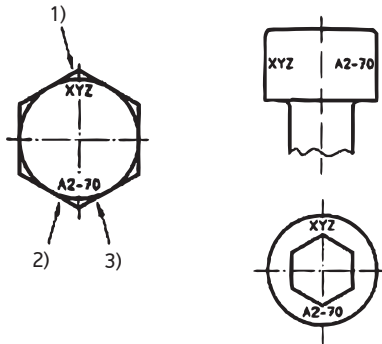
Stainless steel



	dk	15.45	19.35	23.35	29.35
	f	3.40	4.40	5.40	7.25
	k min.	3.12	4.12	4.62	6.05
	v min.	5.52	7.42	9.42	11.30
	b ≤ 125	18	22	26	30
	b ≥ 125	24	28	32	36
Length (l)	Size (d)	M6	M8	M10	M12
20	Part Number	CHBA4M6X20	CHBA4M8X20		
	Std Pack	100	50		
25	Part Number	CHBA4M6X25	CHBA4M8X25	CHBA4M10X25	
	Std Pack	100	50	50	
30	Part Number	CHBA4M6X30	CHBA4M8X30	CHBA4M10X30	
	Std Pack	100	50	50	
40	Part Number	CHBA4M6X40	CHBA4M8X40	CHBA4M10X40	CHBA4M12X40
	Std Pack	100	50	50	25
50	Part Number	CHBA4M6X50	CHBA4M8X50	CHBA4M10X50	CHBA4M12X50
	Std Pack	100	50	50	25
60	Part Number	CHBA4M6X60	CHBA4M8X60	CHBA4M10X60	CHBA4M12X60
	Std Pack	50	50	25	25
70	Part Number	CHBA4M6X70	CHBA4M8X70	CHBA4M10X70	CHBA4M12X70
	Std Pack	50	50	25	25
80	Part Number	CHBA4M6X80	CHBA4M8X80	CHBA4M10X80	CHBA4M12X80
	Std Pack	50	50	25	25
100	Part Number	CHBA4M6X100	CHBA4M8X100	CHBA4M10X100	CHBA4M12X100
	Std Pack	50	50	25	25
120	Part Number			CHBA4M10X120	CHBA4M12X120
	Std Pack			25	25
130	Part Number				CHBA4M12X130
	Std Pack				25
150	Part Number				CHBA4M12X150
	Std Pack				10
180	Part Number				CHBA4M12X180
	Std Pack				10
200	Part Number				CHBA4M12X200
	Std Pack				10

The marking of stainless screws and nuts must contain the steel group, strength class and manufacturer's sign.

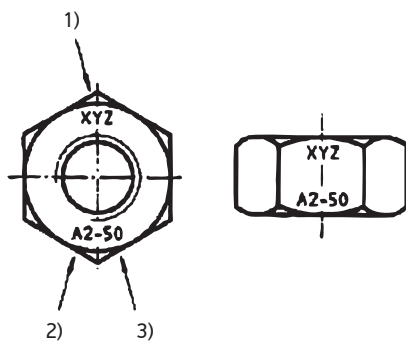
Marking of screws according to DIN ISO 3506-1



Hexagonal screws and socket cap screws with hexagonal socket as of an M5 nominal diameter should be clearly marked according the marking system. Where at all possible, the marking should be placed on the screw head.

- 1) Manufacturer's identification mark
- 2) Steel grade
- 3) Property class

Marking of screws according to DIN ISO 3506-2



- 1) Manufacturer's identification mark
- 2) Steel grade
- 3) Property class

Nuts with a thread nominal diameter as of 5 mm should be clearly marked according the following marking system. Marking on just one bearing surface is permitted and may only be used if recessed, Marking on the spanner flats is also possible.

ATR

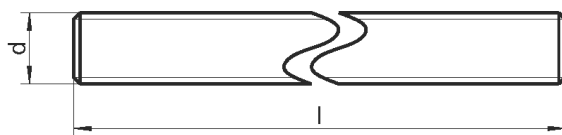
Threaded Rod

Allthread 1 Metre

DIN 975

A2 304

Stainless steel



Diameter	Length (mm)	Part Number	Std Pack
M3	1000	ATRA2M3X1000	10
M4	1000	ATRA2M4X1000	10
M5	1000	ATRA2M5X1000	10
M6	1000	ATRA2M6X1000	10
M8	1000	ATRA2M8X1000	10
M10	1000	ATRA2M10X1000	10
M12	1000	ATRA2M12X1000	5
M14	1000	ATRA2M14X1000	5
M16	1000	ATRA2M16X1000	5
M20	1000	ATRA2M20X1000	5
M24	1000	ATRA2M24X1000	5

ATR

Threaded Rod

Allthread 1 Metre

DIN 975

A4 316

Stainless steel

Diameter	Length (mm)	Part Number	Std Pack
M4	1000	ATRA4M4X1000	10
M5	1000	ATRA4M5X1000	10
M6	1000	ATRA4M6X1000	10
M8	1000	ATRA4M8X1000	10
M10	1000	ATRA4M10X1000	10
M12	1000	ATRA4M12X1000	5
M14	1000	ATRA4M14X1000	5
M16	1000	ATRA4M16X1000	5
M18	1000	ATRA4M18X1000	5
M20	1000	ATRA4M20X1000	5
M22	1000	ATRA4M22X1000	5
M24	1000	ATRA4M24X1000	5
M27	1000	ATRA4M27X1000	2
M30	1000	ATRA4M30X1000	2
M33	1000	ATRA4M33X1000	1
M36	1000	ATRA4M36X1000	1
M39	1000	ATRA4M39X1000	1
M42	1000	ATRA4M42X1000	1
M48	1000	ATRA4M48X1000	1

Inox World offers a cutting service for any requirements on studs.
Please contact your local sales representative for more information.

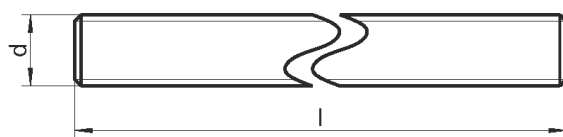
A2 304

Stainless steel

Threaded Rod**ATR**

DIN 976

Allthread 3 Metre



Diameter	Length (mm)	Part Number	Std Pack
M6	3000	ATRA2M6X3000	10
M8	3000	ATRA2M8X3000	10
M10	3000	ATRA2M10X3000	10
M12	3000	ATRA2M12X3000	5
M16	3000	ATRA2M16X3000	5
M20	3000	ATRA2M20X3000	5
M24	3000	ATRA2M24X3000	2

A4 316

Stainless steel

Threaded Rod**ATR**

DIN 976

Allthread 3 Metre

Diameter	Length (mm)	Part Number	Std Pack
M6	3000	ATRA4M6X3000	10
M8	3000	ATRA4M8X3000	10
M10	3000	ATRA4M10X3000	10
M12	3000	ATRA4M12X3000	5
M16	3000	ATRA4M16X3000	5
M20	3000	ATRA4M20X3000	5
M24	3000	ATRA4M24X3000	2
M27	3000	ATRA4M27X3000	2
M30	3000	ATRA4M30X3000	1
M33	3000	ATRA4M33X3000	1
M36	3000	ATRA4M36X3000	1

Nuts And WashersStandard Nuts
Page 30Mud Guard Washers
Page 46Couplings Nuts
Page 39Spring Washers
Page 48

ATR

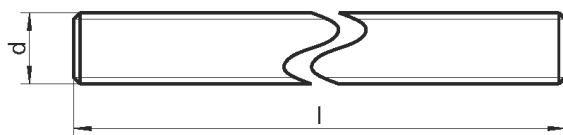
Threaded Rod

Allthread 3ft

UNC

A2 304

Stainless steel



Diameter	Feet (')	Part Number	Std Pack
1/4"	3	ATRA214UNCX3	10
5/16"	3	ATRA2516UNCX3	10
3/8"	3	ATRA238UNCX3	10
1/2"	3	ATRA212UNCX3	5
5/8"	3	ATRA258UNCX3	5
3/4"	3	ATRA234UNCX3	5
7/8"	3	ATRA278UNCX3	5
1"	3	ATRA21UNCX3	2

ATR

Threaded Rod

Allthread 3ft

UNC

A4 316

Stainless steel

Diameter	Feet (')	Part Number	Std Pack
1/4"	3	ATRA414UNCX3	10
5/16"	3	ATRA4516UNCX3	10
3/8"	3	ATRA438UNCX3	10
1/2"	3	ATRA412UNCX3	5
5/8"	3	ATRA458UNCX3	5
3/4"	3	ATRA434UNCX3	5
7/8"	3	ATRA478UNCX3	5
1"	3	ATRA41UNCX3	2
1 1/4"	3	ATRA4114UNCX3	1
1 1/2"	3	ATRA4112UNCX3	1

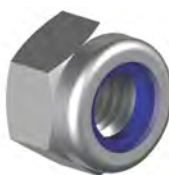
Nuts And Washers



Standard Nuts
Page 30



Standard Washers
Page 42



Lock Nuts
Page 34



Spring Washers
Page 48

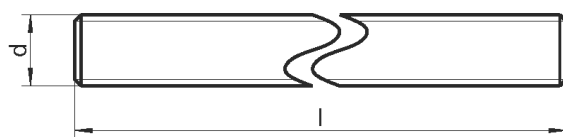
A2 304

Stainless steel

Threaded Rod**ATR**

BSW

Allthread 3ft



Diameter	Feet (')	Part Number	Std Pack
1/2"	3	ATRA212BSWX3	5

A4 316

Stainless steel

Threaded Rod**ATR**

BSW

Allthread 3ft

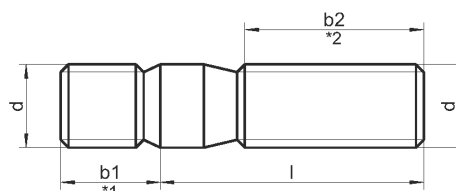
Diameter	Feet (')	Part Number	Std Pack
1/2"	3	ATRA412BSWX3	5

A4 316

Stainless steel

Engineering Stud**EST**

DIN 938



	b2	22	26	30	38
	b1	8	10	12	16
Length (l)	Size (d)	M8	M10	M12	M16
30	Part Number	ESTA4M8X30			
	Std Pack	50			
40	Part Number	ESTA4M8X40	ESTA4M10X40	ESTA4M12X40	
	Std Pack	50	50	25	
50	Part Number	ESTA4M8X50	ESTA4M10X50	ESTA4M12X50	ESTA4M16X50
	Std Pack	50	50	25	25
65	Part Number		ESTA4M10X65	ESTA4M12X65	ESTA4M16X65
	Std Pack		50	25	25
75	Part Number		ESTA4M10X75	ESTA4M12X75	ESTA4M16X75
	Std Pack		50	25	25
100	Part Number				ESTA4M16X100
	Std Pack				25

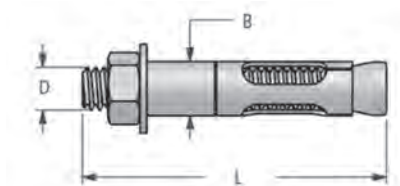
SAN

Sleeve Anchor

Hex Flange Nut

A4 316

Stainless steel



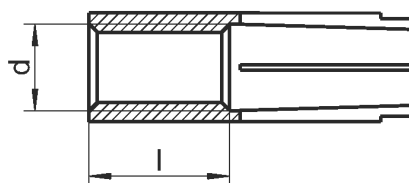
Diameter D	B	L	Part Number	Std Pack
M8	10	40	SANA4M8X40	100
M8	10	65	SANA4M8X65	50
M8	10	80	SANA4M8X80	50
M10	12	50	SANA4M10X50	50
M10	12	75	SANA4M10X75	50
M10	12	100	SANA4M10X100	50
M12	15	60	SANA4M12X60	50
M12	15	75	SANA4M12X75	50
M12	15	100	SANA4M12X100	25

DIN

Drop In Anchor

A4 316

Stainless steel



Size Ø d	Bore hole	Bore depth	Part Number	Std Pack
M6	8	25	DINA4M6X25	100
M8	10	30	DINA4M8X30	100
M10	12	40	DINA4M10X40	50
M12	15	50	DINA4M12X50	50

A4 316

Stainless steel

Stud Anchor

With Nut And Washer

STA

Diameter D	L	Part Number	Std Pack
M8	80	STAA4M8X80	50
M10	90	STAA4M10X90	25
M10	120	STAA4M10X120	25
M12	80	STAA4M12X80	20
M12	100	STAA4M12X100	20
M12	140	STAA4M12X140	20
M16	105	STAA4M16X105	20
M16	140	STAA4M16X140	20

XNU

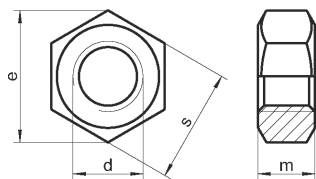
Hexagon Nut

Metric

DIN 934

A2 304

Stainless steel



d	m	s	e	●	Part Number	Std Pack
M2	1.35	4.0	4.32	4	XNUA2M2	200
M2.5	1.75	5.0	5.45	5	XNUA2M25	200
M3	2.40	5.5	6.01	5.5	XNUA2M3	200
M4	3.20	7.0	7.66	7	XNUA2M4	200
M5*	4.00	8.0	8.79	8	XNUA2M5	200
M6*	5.00	10.0	11.05	10	XNUA2M6	100
M8*	6.14	13.0	14.38	13	XNUA2M8	100
M10*	7.64	17.0	18.9	17	XNUA2M10	100
M12*	9.64	19.0	21.1	19	XNUA2M12	100
M14*	11.00	22.0	24.49	22	XNUA2M14	50
M16*	13.00	24.0	26.75	24	XNUA2M16	50
M20*	16.00	30.0	32.95	30	XNUA2M20	50
M24*	19.00	36.0	39.55	36	XNUA2M24	25
M30	24.00	46.0	50.85	46	XNUA2M30	10

XNU

Hexagon Nut

Metric

DIN 934

A4 316

Stainless steel

d	m	s	e	●	Part Number	Std Pack
M2	1.35	4.0	4.32	4	XNUA4M2	200
M2.5	1.75	5.0	5.45	5	XNUA4M25	200
M3	2.40	5.5	6.01	5.5	XNUA4M3	200
M4	3.20	7.0	7.66	7	XNUA4M4	200
M5*	4.00	8.0	8.79	8	XNUA4M5	200
M6*	5.00	10.0	11.05	10	XNUA4M6	100
M8*	6.14	13.0	14.38	13	XNUA4M8	100
M10*	7.64	17.0	18.9	17	XNUA4M10	100
M12*	9.64	19.0	21.1	19	XNUA4M12	100
M14*	11.00	22.0	24.49	22	XNUA4M14	50
M16*	13.00	24.0	26.75	24	XNUA4M16	50
M18*	15.00	27.0	29.56	27	XNUA4M18	50
M20*	16.00	30.0	32.95	30	XNUA4M20	50
M22	18.00	32.0	35.03	32	XNUA4M22	25
M24*	19.00	36.0	39.55	36	XNUA4M24	25
M27	22.00	41.0	45.2	41	XNUA4M27	25
M30	24.00	46.0	50.85	46	XNUA4M30	10
M33	26.00	50.0	55.37	50	XNUA4M33	10
M36	29.00	55.0	60.79	55	XNUA4M36	5
M39	31.00	60.0	66.44	60	XNUA4M39	5
M42	34.00	65.0	71.3	65	XNUA4M42	5
M48	38.00	75.0	82.6	75	XNUA4M48	5

* Supplied in A4-80

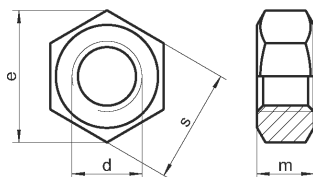
A2 304

Stainless steel

Hexagon Nut

XNU

UNC



d	m	s	e	gears	Part Number	Std Pack
10-24					XNUA21024UNC	200
1/4	5.60	7/16"	11.1	20	XNUA214UNC	100
5/16	6.70	1/2"	12.7	18	XNUA2516UNC	100
3/8	8.30	9/16"	14.3	16	XNUA238UNC	100
1/2	11.10	3/4"	19	13	XNUA212UNC	100
5/8	13.90	15/16"	23.8	11	XNUA258UNC	50
3/4	16.30	1 1/8"	28.6	10	XNUA234UNC	50
7/8					XNUA278UNC	25
1					XNUA21UNC	25

A4 316

Stainless steel

Hexagon Nut

XNU

UNC

d	m	s	e	gears	Part Number	Std Pack
10-24					XNUA41024UNC	200
1/4	5.60	7/16"	11.1	20	XNUA414UNC	100
5/16	6.70	1/2"	12.7	18	XNUA4516UNC	100
3/8	8.30	9/16"	14.3	16	XNUA438UNC	100
1/2	11.10	3/4"	19	13	XNUA412UNC	100
5/8	13.90	15/16"	23.8	11	XNUA458UNC	50
3/4	16.30	1 1/8"	28.6	10	XNUA434UNC	50
7/8					XNUA478UNC	25
1					XNUA41UNC	25
1 1/4					XNUA4114UNC	10
1 1/2					XNUA4112UNC	10

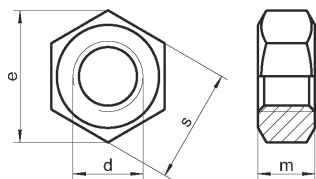
XNU

Hexagon Nut

A2 304

BSW

Stainless steel



d	m	s	e	Part Number	Std Pack
1/8				XNUA218BSW	200
5/32				XNUA2532BSW	200
3/16				XNUA2316BSW	200
1/4				XNUA214BSW	100
1/2				XNUA212BSW	100

XNU

Hexagon Nut

A4 316

BSW

Stainless steel

d	m	s	e	Part Number	Std Pack
1/8				XNUA418BSW	200
5/32				XNUA4532BSW	200
3/16				XNUA4316BSW	200
1/4				XNUA414BSW	100
1/2				XNUA412BSW	100

Nut And Washer sizes

Nut and washer sizes indicate **the screw or bolt they fit**. For example:



3/8" Hex Bolt



3/8" Washer



3/8" Nut

A2 304

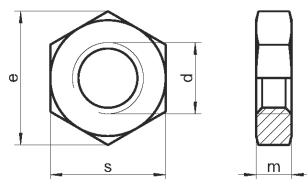
Stainless steel

Hexagon Lock Nut

XLN

DIN 439

Metric



d	m	s	e	●	Part Number	Std Pack
M3	1.55	5.50	6.01	5.50	XLNA2M3	100
M4	1.95	7.00	7.66	7.00	XLNA2M4	100
M5	2.45	8.0	8.79	8	XLNA2M5	100
M6	2.90	10.0	11.05	10	XLNA2M6	100
M8	3.70	13.0	14.38	13	XLNA2M8	100
M10	4.70	17.0	18.9	17	XLNA2M10	100
M12	5.70	19.0	21.1	19	XLNA2M12	50
M16	7.42	24.0	26.75	24	XLNA2M16	50
M20	9.10	30.0	32.95	30	XLNA2M20	25
M24	10.90	36.0	39.55	36	XLNA2M24	25

A4 316

Stainless steel

Hexagon Lock Nut

XLN

DIN 439

Metric

d	m	s	e	●	Part Number	Std Pack
M3	1.55	5.50	6.01	5.50	XLNA4M3	100
M4	1.95	7.00	7.66	7.00	XLNA4M4	100
M5	2.45	8.0	8.79	8	XLNA4M5	100
M6	2.90	10.0	11.05	10	XLNA4M6	100
M8	3.70	13.0	14.38	13	XLNA4M8	100
M10	4.70	17.0	18.9	17	XLNA4M10	100
M12	5.70	19.0	21.1	19	XLNA4M12	50
M14	6.42	22.0	24.49	22	XLNA4M14	50
M16	7.42	24.0	26.75	24	XLNA4M16	50
M20	9.10	30.0	32.95	30	XLNA4M20	25
M24	10.90	36.0	39.55	36	XLNA4M24	25
M27	12.40	41.0	45.2	41	XLNA4M27	10
M30	13.90	46.0	50.85	46	XLNA4M30	10

XNN

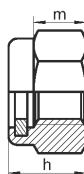
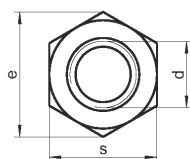
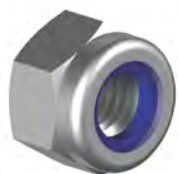
Nylon Insert Lock Nut

Metric

DIN 985

A2 304

Stainless steel



d	m	h	s	e	●	Part Number	Std Pack
M3	2.40	4.00	5.5	6.01	5.5	XNNA2M3	200
M4	2.90	5.00	7.0	7.66	7	XNNA2M4	100
M5	3.20	5.00	8.0	8.79	8	XNNA2M5	100
M6	4.00	6.00	10.0	11.05	10	XNNA2M6	100
M8	5.50	8.00	13.0	14.38	13	XNNA2M8	100
M10	6.50	10.00	17.0	18.90	17	XNNA2M10	100
M12	8.00	12.00	19.0	21.10	19	XNNA2M12	100
M14	9.50	14.00	22.0	24.49	22	XNNA2M14	50
M16	10.50	16.00	24.0	26.75	24	XNNA2M16	50
M20	14.00	20.00	30.0	32.95	30	XNNA2M20	25
M24	15.00	24.00	36.0	39.55	36	XNNA2M24	25

XNN

Nylon Insert Lock Nut

Metric

DIN 985

A4 316

Stainless steel

d	m	h	s	e	●	Part Number	Std Pack
M3	2.40	4.00	5.5	6.01	5.5	XNNA4M3	200
M4	2.90	5.00	7.0	7.66	7	XNNA4M4	100
M5	3.20	5.00	8.0	8.79	8	XNNA4M5	100
M6	4.00	6.00	10.0	11.05	10	XNNA4M6	100
M8	5.50	8.00	13.0	14.38	13	XNNA4M8	100
M10	6.50	10.00	17.0	18.90	17	XNNA4M10	100
M12	8.00	12.00	19.0	21.10	19	XNNA4M12	100
M14	9.50	14.00	22.0	24.49	22	XNNA4M14	50
M16	10.50	16.00	24.0	26.75	24	XNNA4M16	50
M18	13.00	18.50	27.0	29.56	27	XNNA4M18	50
M20	14.00	20.00	30.0	32.95	30	XNNA4M20	25
M22	15.00	22.00	32.0	35.03	32	XNNA4M22	25
M24	15.00	24.00	36.0	39.55	36	XNNA4M24	25
M27	17.00	27.00	41.0	45.20	41	XNNA4M27	20
M30	19.00	30.00	46.0	50.85	46	XNNA4M30	10
M33	22.00	33.00	50.0	55.37	50	XNNA4M33	5
M36	25.00	36.00	55.0	60.79	55	XNNA4M36	5

Inox World recommends the use of Nickel Based Lubricants to prevent galling.
We recommend the following brands CRC, Rocol, Devcon & Loctite.

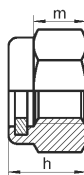
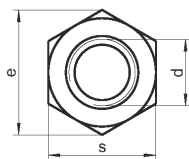
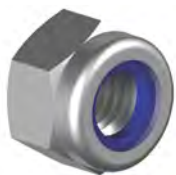
A2 304

Stainless steel

Nylon Insert Lock Nut

XNN

UNC



d	m	h	s	e	gears	Part Number	Pack
10-24						XNNA21024UNC	100
1/4	5.60		7/16"	11.1	20	XNNA214UNC	100
5/16	6.70		1/2"	12.7	18	XNNA2516UNC	100
3/8	8.30		9/16"	14.3	16	XNNA238UNC	100
1/2	11.10		3/4"	19	13	XNNA212UNC	100
5/8	13.90		15/16"	23.8	11	XNNA258UNC	50
3/4	16.30		1 1/8"	28.6	10	XNNA234UNC	25
7/8	18.70		15/16"	33.4	9	XNNA278UNC	25
1	21.10		2 1/8"	38.2	8	XNNA21UNC	25

A4 316

Stainless steel

Nylon Insert Lock Nut

XNN

UNC

d	m	h	s	e	gears	Part Number	Pack
10-24						XNNA41024UNC	100
1/4	5.60		7/16"	11.1	20	XNNA414UNC	100
5/16	6.70		1/2"	12.7	18	XNNA4516UNC	100
3/8	8.30		9/16"	14.3	16	XNNA438UNC	100
1/2	11.10		3/4"	19	13	XNNA412UNC	100
5/8	13.90		15/16"	23.8	11	XNNA458UNC	50
3/4	16.30		1 1/8"	28.6	10	XNNA434UNC	25
7/8	18.70		15/16"	33.4	9	XNNA478UNC	25
1	21.10		2 1/8"	38.2	8	XNNA41UNC	25

Fastener Materials and Coatings

Alloy steel is highly hardened and usually black oxide and/or oil coated, offering little corrosion resistance.

Brass and **bronze** are copper alloys with good corrosion resistance. More expensive than steel, these materials are typically used for decorative applications.

Zinc Plated steel is shiny and typically 3 microns thick, where you only need superficial protection, indoors in a dry climate (and want the aesthetic value) go for zinc plating.

Chrome and **nickel plated steel** are smooth and polished for appearance. The plating offers moderate corrosion resistance.

Stainless steel offers good corrosion resistance, making it suitable for outdoor and marine applications.

Hot-dipped galvanised steel has a thicker zinc coating for better corrosion resistance, making it suitable for outdoor use. Because of the thick plating 50 microns, only galvanised nuts and washers will fit galvanised bolts.

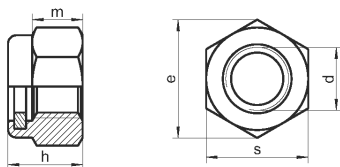
XIW

Hex Inox Loch Nut

Stainless Insert

A2 304

Stainless steel



Size	m	h	s	e	Part Number	Std Pack
M4	2.9	5	7	7.66	XIWA2M4	100
M5	3.2	5	8	8.79	XIWA2M5	100
M6	4	6	10	11.05	XIWA2M6	100
M8	5.5	8	13	14.38	XIWA2M8	100
M10	6.5	10	17	18.9	XIWA2M10	100
M12	8	12	19	21.1	XIWA2M12	50
M16	10.5	16	24	26.75	XIWA2M16	25
M20	14	20	30	32.95	XIWA2M20	25

XCN

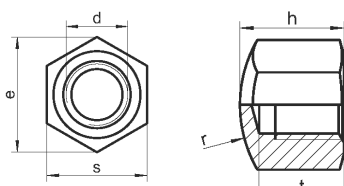
Hexagon Cap Nut

Metric

DIN 917

A2 304

Stainless steel



d	h	s	e	r ≈	t	●	Part Number	Std Pack
M4	5.5	7	7.66	8	4.16	7	XCNA2M4	200
M5	7	8	8.79	10	4.96	8	XCNA2M5	100
M6	9	10	11.05	12	6.71	10	XCNA2M6	100
M8	12	13	14.38	15	9.21	13	XCNA2M8	100
M10	14	16	17.77	20	10.65	17	XCNA2M10	100
M12	16	18	20.03	25	13.15	19	XCNA2M12	50

A2 304

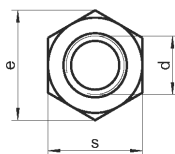
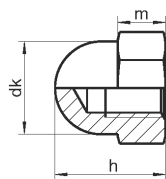
Stainless steel

Dome Nut

DNU

DIN 1587

1-Piece



d	m	h	s	e	dk		Part Number	Pack
M3	2.40	7.00	5.5	6.01	5.5	5.5	DNUA2M3	100
M4	3.20	8.00	7.0	7.66	6.5	7	DNUA2M4	100
M5	4.00	10.00	8.0	8.79	7.5	8	DNUA2M5	100
M6	5.00	12.00	10.0	11.05	9.5	10	DNUA2M6	100
M8	6.50	15.00	13.0	14.38	12.5	13	DNUA2M8	100
M10	8.00	18.00	17.0	18.90	16.0	17	DNUA2M10	100
M12	10.00	22.00	19.0	21.10	18.0	19	DNUA2M12	100
M14	11.00	25.00	22.0	24.49	21.0	22	DNUA2M14	50
M16	13.00	28.00	24.0	26.75	23.0	24	DNUA2M16	50
M20	16.00	34.00	30.0	33.53	28.0	30	DNUA2M20	25
M24	19.00	42.00	36.0	39.98	34.0	36	DNUA2M24	25

A4 316

Stainless steel

Dome Nut

DNU

DIN 1587

1-Piece

d	m	h	s	e	dk		Part Number	Pack
M3	2.40	7.00	5.5	6.01	5.5	5.5	DNUA4M3	100
M4	3.20	8.00	7.0	7.66	6.5	7	DNUA4M4	100
M5	4.00	10.00	8.0	8.79	7.5	8	DNUA4M5	100
M6	5.00	12.00	10.0	11.05	9.5	10	DNUA4M6	100
M8	6.50	15.00	13.0	14.38	12.5	13	DNUA4M8	100
M10	8.00	18.00	17.0	18.90	16.0	17	DNUA4M10	100
M12	10.00	22.00	19.0	21.10	18.0	19	DNUA4M12	100
M14	11.00	25.00	22.0	24.49	21.0	22	DNUA4M14	50
M16	13.00	28.00	24.0	26.75	23.0	24	DNUA4M16	50
M20	16.00	34.00	30.0	33.53	28.0	30	DNUA4M20	25
M24	19.00	42.00	36.0	39.98	34.0	36	DNUA4M24	25

DNU

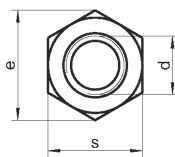
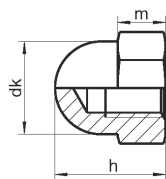
Dome Nut

1 -Piece

UNC

A2 304

Stainless steel



d	m	h	s	e	dk	Part Number	Pack
10-24	4.58	9.56	9.15	10.50	9.12	DNUA21024UNC	100
1/4	5.34	11.56	10.85	12.40	10.39	DNUA214UNC	100
5/16	6.10	13.09	14.00	15.96	13.44	DNUA2516UNC	100
3/8	6.86	15.37	15.55	17.70	15.00	DNUA238UNC	100
1/2	9.40	20.07	18.70	21.34	18.29	DNUA212UNC	100
5/8	11.69	24.49	25.00	28.45	24.38	DNUA258UNC	100
3/4	13.21	29.65	26.55	30.14	26.14	DNUA234UNC	100

DNU

Dome Nut

1 -Piece

UNC

A4 316

Stainless steel

d	m	h	s	e	dk	Part Number	Pack
10-24	4.58	9.56	9.15	10.50	9.12	DNUA41024UNC	100
1/4	5.34	11.56	10.85	12.40	10.39	DNUA414UNC	100
5/16	6.10	13.09	14.00	15.96	13.44	DNUA4516UNC	100
3/8	6.86	15.37	15.55	17.70	15.00	DNUA438UNC	100
1/2	9.40	20.07	18.70	21.34	18.29	DNUA412UNC	100
5/8	11.69	24.49	25.00	28.45	24.38	DNUA458UNC	100
3/4	13.21	29.65	26.55	30.14	26.14	DNUA434UNC	100

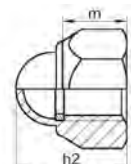
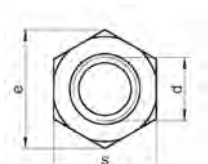
DN2

Welded Dome Nut

2-Piece

A2 304

Stainless steel



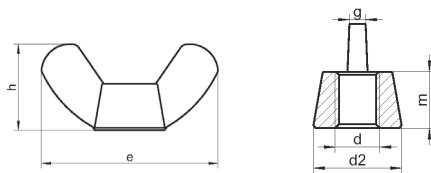
size (d)	m	h2	s	e	Part Number	Std Pack
M4	2.9	9.6	7	7.66	DN2A2M4	100
M5	4.4	10.5	8	8.79	DN2A2M5	100
M6	4.9	12	10	11.05	DN2A2M6	100
M8	6.44	14	13	14.38	DN2A2M8	100
M10	8.04	18.1	16	18.9	DN2A2M10	100
M12	10.4	22.5	18.0	20.0	DN2A2M12	50
M16	14.0	27.5	21.0	23.4	DN2A2M16	50
M20	22.0	34.0	24.0	26.8	DN2A2M20	25

A2 304

Stainless steel

DIN 315 AF

Wing Nut

WNU

d	m	h	e	d2	g	Part Number	Std Pack
M3	2.40	8.8	15.3	6.8	1.2	WNUA2M3	100
M4	2.90	8.8	17.6	8	1.6	WNUA2M4	100
M5	4.10	10.5	22.5	10.3	2.1	WNUA2M5	100
M6	5.10	12.9	27.8	12.7	2.5	WNUA2M6	100
M8	5.60	14.8	30.3	13.8	2.8	WNUA2M8	100
M10	6.80	17.3	36.2	16.5	3.3	WNUA2M10	100
M12	9.00	22.3	49.4	22.5	4.5	WNUA2M12	50
M16	10.70	30.8	58.3	26.6	6.3	WNUA2M16	25

A4 316

Stainless steel

DIN 315 AF

Wing Nut

WNU

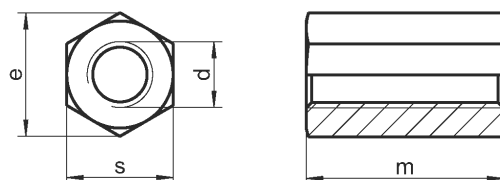
d	m	h	e	d2	g	Part Number	Std Pack
M3	2.40	8.8	15.3	6.8	1.2	WNUA4M3	100
M4	2.90	8.8	17.6	8	1.6	WNUA4M4	100
M5	4.10	10.5	22.5	10.3	2.1	WNUA4M5	100
M6	5.10	12.9	27.8	12.7	2.5	WNUA4M6	100
M8	5.60	14.8	30.3	13.8	2.8	WNUA4M8	100
M10	6.80	17.3	36.2	16.5	3.3	WNUA4M10	100
M12	9.00	22.3	49.4	22.5	4.5	WNUA4M12	50
M16	10.70	30.8	58.3	26.6	6.3	WNUA4M16	25

A4 316

Stainless steel

DIN 6334

Hexagon Coupling Nut

CNU

Size (d)	m	s	e	Part Number	Std Pack
M6	18	10	11.05	CNUA4M6	1
M8	24	13	14.38	CNUA4M8	1
M10	30	17	18.9	CNUA4M10	1
M12	36	19	21.1	CNUA4M12	1
M16	48	24	26.75	CNUA4M16	1
M20	60	30	33.53	CNUA4M20	1
M24	72	36	39.98	CNUA4M24	1
M30	90	46	51.28	CNUA4M30	1

XFN

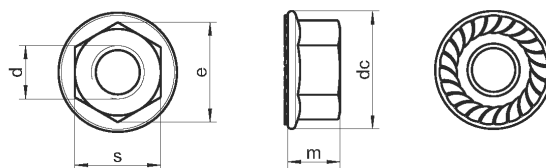
Hexagon Flange Nut

Serrated

DIN 6923

A2 304

Stainless steel



d	dc	m	S	e	g	Part Number	Pack
M4	10.00	4.65	7.0	7.66	7	XFNA2M4	100
M5	11.80	4.70	8.0	8.79	8	XFNA2M5	100
M6	14.20	5.70	10.0	11.05	10	XFNA2M6	100
M8	17.90	7.64	13.0	14.38	13	XFNA2M8	100
M10	21.80	9.84	15.0	17.77	15	XFNA2M10	100
M12	26.00	11.57	18.0	20.03	18	XFNA2M12	100

XFN

Hexagon Flange Nut

Serrated

DIN 6923

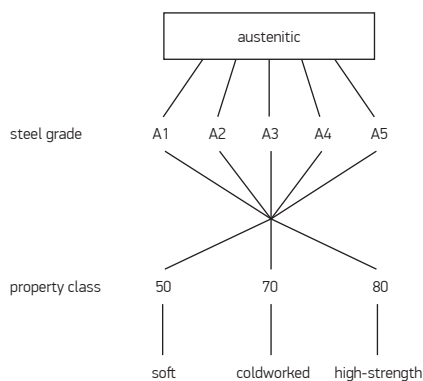
A4 316

Stainless steel

d	dc	m	S	e	g	Part Number	Pack
M4	10.00	4.65	7.0	7.66	7	XFNA4M4	100
M5	11.80	4.70	8.0	8.79	8	XFNA4M5	100
M6	14.20	5.70	10.0	11.05	10	XFNA4M6	100
M8	17.90	7.64	13.0	14.38	13	XFNA4M8	100
M10	21.80	9.84	15.0	17.77	15	XFNA4M10	100
M12	26.00	11.57	18.0	20.03	18	XFNA4M12	100

Labelling system for grades of stainless steels and their strength classes

Stainless steels divide into three groups of steels — austenitic, ferritic and martensitic. Austenitic steel is by far the commonest and offers the greatest scope for use. The steel groups and strength classes are designated by a four-digit sequence of letters and numbers as shown in the following example. DIN EN ISO 3506 governs screws and nuts made from stainless steel.



Example: A2 - 80

A = austenitic steel
 2 = type of alloy within group A
 80 = tensile strength of at least 800 N/mm², cold work hardened

Common stainless steels and their chemical composition

	Material designation	Material no.	C %	Si ≤%	Mn ≤%	Cr %	Mo %	Ni %	Altri %
A2	X 5 Cr Ni 1810	1.4301	≤0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5	-
	X 2 Cr Ni 1811	1.4306	≤0.03	1.0	2.0	18.9 to 20.0	-	10.0 to 12.0	-
	X 8 Cr Ni 19/10	1.4303	≤0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0	-
A3	X 6 Cr Ni Ti 1811	1.4541	≤0.10	1.0	2.0	17.0 to 19.0	-	9.0 to 12.0	Ti ≥ 5 X % C
A4	X 5 Cr Ni Mo 1712	1.4401	≤0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
	X 5 Cr Ni Mo 1712	1.4401	≤0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
A5	X 6 Cr Ni Mo Ti 1712	1.4541	≤0.10	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.5 to 13.5	Ti ≥ 5 X % C

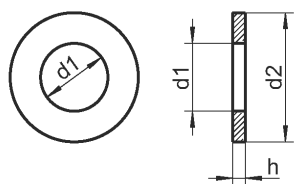
FRW

Flat Round Washer

Inox Standard

A2 304

Stainless steel



Size	d1	d2	h	Part Number	Std Pack
M6	6.4	12.5	1.2	FRWA2M6	100
M8	8.4	17.0	1.2	FRWA2M8	100
M10	10.5	21.0	1.2	FRWA2M10	100
M12	13.0	24.0	1.5	FRWA2M12	100
M14	15.0	28.0	1.5	FRWA2M14	100
M16	17.0	30.0	1.5	FRWA2M16	100
M20	21.0	37.0	2.0	FRWA2M20	100
M24	25.0	44.0	3.0	FRWA2M24	50
M30	31.0	56.0	3.0	FRWA2M30	20

FRW

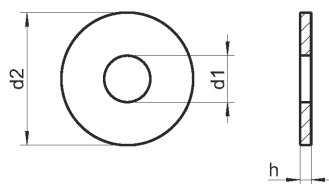
Flat Round Washer

Inox Standard

A4 316

Stainless steel

Size	d1	d2	h	Part Number	Std Pack
M6	6.4	12.5	1.2	FRWA4M6	100
M8	8.4	17.0	1.2	FRWA4M8	100
M10	10.5	21.0	1.2	FRWA4M10	100
M12	13.0	24.0	1.5	FRWA4M12	100
M14	15.0	28.0	1.5	FRWA4M14	100
M16	17.0	30.0	1.5	FRWA4M16	100
M20	21.0	37.0	2.0	FRWA4M20	100
M24	25.0	44.0	3.0	FRWA4M24	50
M27	28.0	50.0	3.0	FRWA4M27	25
M30	31.0	56.0	3.0	FRWA4M30	20
M33	34.0	60.0	3.0	FRWA4M33	20
M36	37.0	66.0	5.0	FRWA4M36	10



Size d1	d2	h	Part Number	Std Pack
1/8	5/16	G22	FRWA218X516	200
1/8	3/8	G20	FRWA218X38	200
5/32	3/8	G20	FRWA2532X38	200
5/32	7/16	G20	FRWA2532X716	200
3/16	7/16	G20	FRWA2316X716	200
3/16	1/2	G20	FRWA2316X12	100
3/16	3/4	G18	FRWA2316X34	100
3/16	7/8	G18	FRWA2316X78	100
3/16	1	G16	FRWA2316X1	100
3/16	1 1/4	G16	FRWA2316X114	100
1/4	1/2	G18	FRWA214X12	100
1/4	9/16	G18	FRWA214X916	100
1/4	5/8	G18	FRWA214X58	100
1/4	3/4	G18	FRWA214X34	100
1/4	7/8	G18	FRWA214X78	100
1/4	1	G16	FRWA214X1	100
1/4	1 1/4	G16	FRWA214X114	100
5/16	5/8	G18	FRWA2516X58	100
5/16	3/4	G18	FRWA2516X34	100
5/16	1	G16	FRWA2516X1	100
5/16	1 1/4	G16	FRWA2516X114	100
3/8	3/4	G18	FRWA238X34	100
3/8	7/8	G18	FRWA238X78	100
3/8	1	G16	FRWA238X1	100
3/8	1 1/4	G16	FRWA238X114	100
3/8	1 1/2	G14	FRWA238X112	100
3/8	2	G14	FRWA238X2	100
7/16	1 1/8	G16	FRWA2716X118	100
7/16	2	G10	FRWA2716X2	50
1/2	1	G16	FRWA212X1	100
1/2	1 1/4	G14	FRWA212X114	100
1/2	2	G14	FRWA212X2	50
5/8	1 1/4	G16	FRWA258X114	100
5/8	1 1/2	G14	FRWA258X112	100
3/4	1 1/2	G14	FRWA234X112	100
7/8	2	G10	FRWA278X2	50
1	2	G10	FRWA21X2	50

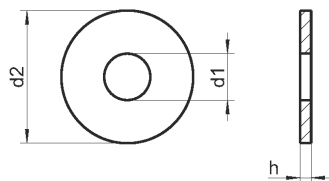
FRW

Flat Round Washer

Imperial

A4 316

Stainless steel



Size d1	d2	h	Part Number	Std Pack
1/8	5/16	G22	FRWA418X516	200
1/8	3/8	G20	FRWA418X38	200
5/32	3/8	G20	FRWA4532X38	200
5/32	7/16	G20	FRWA4532X716	200
3/16	7/16	G20	FRWA4316X716	200
3/16	1/2	G20	FRWA4316X12	100
3/16	3/4	G18	FRWA4316X34	100
3/16	7/8	G18	FRWA4316X78	100
3/16	1	G16	FRWA4316X1	100
3/16	1 1/4	G16	FRWA4316X114	100
1/4	1/2	G18	FRWA414X12	100
1/4	9/16	G18	FRWA414X916	100
1/4	5/8	G18	FRWA414X58	100
1/4	3/4	G18	FRWA414X34	100
1/4	7/8	G18	FRWA414X78	100
1/4	1	G16	FRWA414X1	100
1/4	1 1/4	G16	FRWA414X114	100
5/16	5/8	G18	FRWA4516X58	100
5/16	3/4	G18	FRWA4516X34	100
5/16	1	G16	FRWA4516X1	100
5/16	1 1/4	G16	FRWA4516X114	100
3/8	3/4	G18	FRWA438X34	100
3/8	7/8	G18	FRWA438X78	100
3/8	1	G16	FRWA438X1	100
3/8	1 1/4	G16	FRWA438X114	100
3/8	1 1/2	G14	FRWA438X112	100
3/8	2	G14	FRWA438X2	100
7/16	1 1/8	G16	FRWA4716X118	100
7/16	2	G10	FRWA4716X2	50
1/2	1	G16	FRWA412X1	100
1/2	1 1/4	G14	FRWA412X114	100
1/2	2	G14	FRWA412X2	50
5/8	1 1/4	G16	FRWA458X114	100
5/8	1 1/2	G14	FRWA458X112	100
3/4	1 1/2	G14	FRWA434X112	100
7/8	2	G10	FRWA478X2	50
1	2	G10	FRWA41X2	50

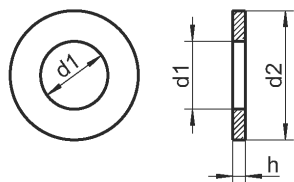
A2 304

Stainless steel

DIN 125 A

Metric

Flat Round Washer

FWA

Size	d1	d2	h	Part Number	Std Pack
M2	2.2	5	0.3	FWAA2M2	200
M2.5	2.7	6	0.5	FWAA2M25	200
M3	3.2	7	0.5	FWAA2M3	200
M4	4.3	9	0.8	FWAA2M4	200
M5	5.3	10	1.0	FWAA2M5	200
M6	6.4	12	1.6	FWAA2M6	100
M8	8.4	16	1.6	FWAA2M8	100
M10	10.5	20	2.0	FWAA2M10	100
M12	13.0	24	2.5	FWAA2M12	100
M14	15.0	28	2.5	FWAA2M14	100
M16	17.0	30	3.0	FWAA2M16	100
M18	19.0	34	3.0	FWAA2M18	100
M20	21.0	37	3.0	FWAA2M20	100
M22	23.0	39	3.0	FWAA2M22	100
M24	25.0	44	4.0	FWAA2M24	50

A4 316

Stainless steel

DIN 125 A

Metric

Flat Round Washer

FWA

Size	d1	d2	h	Part Number	Std Pack
M2	2.2	5	0.3	FWAA4M2	200
M2.5	2.7	6	0.5	FWAA4M25	200
M3	3.2	7	0.5	FWAA4M3	200
M4	4.3	9	0.8	FWAA4M4	200
M5	5.3	10	1.0	FWAA4M5	200
M6	6.4	12	1.6	FWAA4M6	100
M8	8.4	16	1.6	FWAA4M8	100
M10	10.5	20	2.0	FWAA4M10	100
M12	13.0	24	2.5	FWAA4M12	100
M14	15.0	28	2.5	FWAA4M14	100
M16	17.0	30	3.0	FWAA4M16	100
M20	21.0	37	3.0	FWAA4M20	100
M24	25.0	44	4.0	FWAA4M24	50
M39	40.0	56	6.0	FWAA4M39	20
M42	43.0	60	7.0	FWAA4M42	10
M48	50.0	66	8.0	FWAA4M48	10

FWM

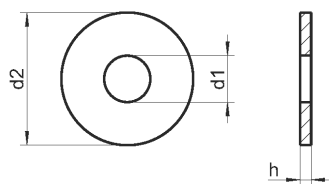
Flat Round Washer

Mudguard

DIN 9021

A2 304

Stainless steel



Size	d1	d2	h	Part Number	Std Pack
M3	3.2	9	0.8	FWMA2M3	200
M4	4.3	12	1.0	FWMA2M4	200
M5	5.3	15	1.2	FWMA2M5	100
M6	6.4	18	1.6	FWMA2M6	100
M8	8.4	24	2.0	FWMA2M8	100
M10	10.5	30	2.5	FWMA2M10	100
M12	13.0	37	3.0	FWMA2M12	100
M14	15.0	44	3.0	FWMA2M14	100
M16	17.0	50	3.0	FWMA2M16	50
M18	20.0	56	4.0	FWMA2M18	50
M20	22.0	60	4.0	FWMA2M20	50
M24	26.0	72	5.0	FWMA2M24	50
M30	33.0	92	6.0	FWMA2M30	20

FWM

Flat Round Washer

Mudguard

DIN 9021

A4 316

Stainless steel

Size	d1	d2	h	Part Number	Std Pack
M3	3.2	9	0.8	FWMA4M3	200
M4	4.3	12	1.0	FWMA4M4	200
M5	5.3	15	1.2	FWMA4M5	100
M6	6.4	18	1.6	FWMA4M6	100
M8	8.4	24	2.0	FWMA4M8	100
M10	10.5	30	2.5	FWMA4M10	100
M12	13.0	37	3.0	FWMA4M12	100
M14	15.0	44	3.0	FWMA4M14	100
M16	17.0	50	3.0	FWMA4M16	50
M18	20.0	56	4.0	FWMA4M18	50
M20	22.0	60	4.0	FWMA4M20	50
M24	26.0	72	5.0	FWMA4M24	50
M30	33.0	92	6.0	FWMA4M30	20

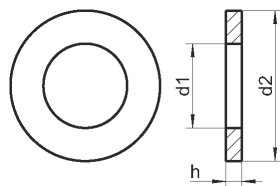
A2 304

Stainless steel

DIN 433

Small O.D.

Flat Round Washer

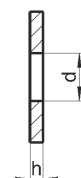
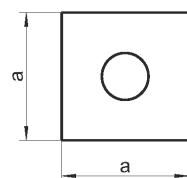
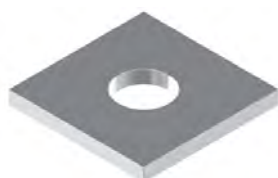
FWS

Size d1	d1	d2	h	Part Number	Std Pack
M2	2.2	4.5	0.5	FWSA2M2	200
M2.5	2.7	5	0.5	FWSA2M25	200
M3	3.2	6	0.5	FWSA2M3	200
M4	4.3	8	0.5	FWSA2M4	200
M5	5.3	9	1	FWSA2M5	200
M6	6.4	11	1.6	FWSA2M6	100
M8	8.4	15	1.6	FWSA2M8	100
M10	10.5	18	1.6	FWSA2M10	100
M12	13	20	2	FWSA2M12	100
M16	17	28	2.5	FWSA2M16	100
M20	21	34	3	FWSA2M20	100

A4 316

Stainless steel

Flat Square Washer

FSW

Size d	a	h	Part Number	Std Pack
M10	50	3	FSWA4M10	50
M12	50	3	FSWA4M12	50
M16	50	3	FSWA4M16	25
M20	50	4	FSWA4M20	25

SWA

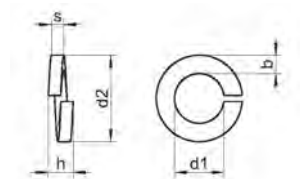
Spring Washer

Metric

DIN 127B

A2 304

Stainless steel



Size	d1	d2	h	s	b	Part Number	Std Pack
M2	2.1	4.4	1.0	0.5	0.9	SWAA2M2	200
M2.5	2.6	5.1	1.2	0.6	1.0	SWAA2M25	200
M3	3.1	6.2	1.6	0.8	1.3	SWAA2M3	200
M4	4.1	7.6	1.8	0.9	1.5	SWAA2M4	200
M5	5.1	9.2	2.4	1.2	1.8	SWAA2M5	200
M6	6.1	11.8	3.2	1.6	2.5	SWAA2M6	100
M8	8.1	14.8	4.0	2.0	3.0	SWAA2M8	100
M10	10.2	18.1	4.4	2.2	3.5	SWAA2M10	100
M12	12.2	21.1	5.0	2.5	4.0	SWAA2M12	100
M14	14.2	24.1	6.0	3.0	4.5	SWAA2M14	100
M16	16.2	27.4	7.0	3.5	5.0	SWAA2M16	100
M18	18.2	29.4	7.0	3.5	5.0	SWAA2M18	100
M20	20.2	33.6	8.0	4.0	6.0	SWAA2M20	100
M24	24.5	40	10.0	5.0	7.0	SWAA2M24	50

SWA

Spring Washer

Metric

DIN 127B

A4 316

Stainless steel

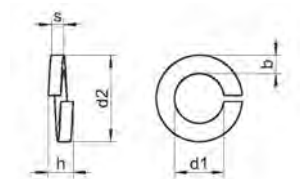
Size	d1	d2	h	s	b	Part Number	Std Pack
M3	3.1	6.2	1.6	0.8	1.3	SWAA4M3	200
M4	4.1	7.6	1.8	0.9	1.5	SWAA4M4	200
M5	5.1	9.2	2.4	1.2	1.8	SWAA4M5	200
M6	6.1	11.8	3.2	1.6	2.5	SWAA4M6	100
M8	8.1	14.8	4.0	2.0	3.0	SWAA4M8	100
M10	10.2	18.1	4.4	2.2	3.5	SWAA4M10	100
M12	12.2	21.1	5.0	2.5	4.0	SWAA4M12	100
M14	14.2	24.1	6.0	3.0	4.5	SWAA4M14	100
M16	16.2	27.4	7.0	3.5	5.0	SWAA4M16	100
M18	18.2	29.4	7.0	3.5	5.0	SWAA4M18	100
M20	20.2	33.6	8.0	4.0	6.0	SWAA4M20	100
M24	24.5	40	10.0	5.0	7.0	SWAA4M24	50
M27	27.5	43	10.0	5.0	7.0	SWAA4M27	25
M30	30.5	48.2	12.0	6.0	8.0	SWAA4M30	25

A2 304

Stainless steel

Spring Washer

Imperial

SWA

Size d1 "	d2 "	s "	b "	Part Number	Std Pack
1/8	0.236	0.031	0.047	SWAA218	200
5/32	0.293	0.04	0.055	SWAA2532	200
3/16	0.334	0.047	0.62	SWAA2316	200
1/4	0.489	0.062	0.109	SWAA214	100
5/16	0.586	0.078	0.125	SWAA2516	100
3/8	0.683	0.094	0.141	SWAA238	100
7/16	0.779	0.109	0.156	SWAA2716	100
1/2	0.873	0.125	0.171	SWAA212	100
5/8	1.079	0.156	0.203	SWAA258	100
3/4	1.271	0.188	0.234	SWAA234	100
7/8	1.464	0.219	0.266	SWAA278	50
1	1.66	0.25	0.297	SWAA21	50

A4 316

Stainless steel

Spring Washer

Imperial

SWA

Size d1 "	d2 "	s "	b "	Part Number	Std Pack
1/8	0.236	0.031	0.047	SWAA4318	200
5/32	0.293	0.04	0.055	SWAA4532	200
3/16	0.334	0.047	0.62	SWAA4316	200
1/4	0.489	0.062	0.109	SWAA414	100
5/16	0.586	0.078	0.125	SWAA4516	100
3/8	0.683	0.094	0.141	SWAA438	100
7/16	0.779	0.109	0.156	SWAA4716	100
1/2	0.873	0.125	0.171	SWAA412	100
5/8	1.079	0.156	0.203	SWAA458	100
3/4	1.271	0.188	0.234	SWAA434	100
7/8	1.464	0.219	0.266	SWAA478	50
1	1.66	0.25	0.297	SWAA41	50

CWA

Cup Washer

Metric

A2 304

Stainless steel



Gauge	Outer Diameter	Inner Diameter	Part Number	Std Pack
6G	11.3	4	CWAA26G	100
8G	13.6	4.8	CWAA28G	100
10G	15.1	5.6	CWAA210G	100
12G	17.5	6.5	CWAA212G	100
14G	19.8	7.2	CWAA214G	100

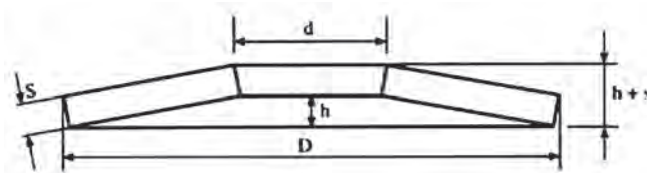
BWA

Belleville Washer

Metric

A2 304

Stainless steel



Size	d	D	s	h	s + h	Part Number	Std Pack
M4	4.2	8	0.4	0.2	0.6	BWAA2M4	100
M5	5.2	10	0.5	0.25	0.75	BWAA2M5	100
M6	6.2	12.5	0.7	0.3	1	BWAA2M6	100
M8	8.2	16	0.9	0.35	1.25	BWAA2M8	100
M10	10.2	20	1.1	0.45	1.55	BWAA2M10	100
M12	12.2	25	1.5	0.55	2.05	BWAA2M12	100
M16	16.3	31.5	1.75	0.7	2.45	BWAA2M16	100
M20	20.4	40	2.25	0.9	3.15	BWAA2M20	100

A2 304

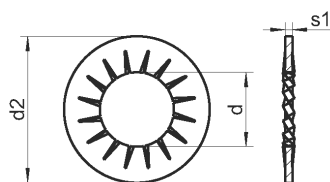
Stainless steel

Tooth Lock Washer

ILW

DIN 6798J

Internal Serrated



Size	d	d2	s1	Part Number	Std Pack
M3	3.2	6	0.4	ILWA2M3	500
M4	4.3	8	0.5	ILWA2M4	500
M5	5.3	10	0.7	ILWA2M5	200
M6	6.4	11	0.7	ILWA2M6	200
M8	8.4	15	0.8	ILWA2M8	200
M10	10.5	18	0.9	ILWA2M10	200
M12	13	20.5	1	ILWA2M12	100
M16	17	26	1.2	ILWA2M16	100
M20	21	33	1.4	ILWA2M20	50

A2 304

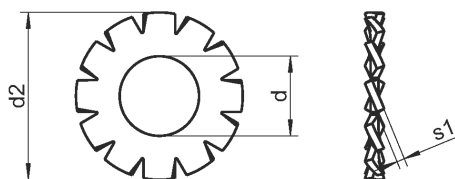
Stainless steel

Tooth Lock Washer

ELW

DIN 6798A

External Serrated



Size	d1	d2	s1	Part Number	Std Pack
M3	3.2	6	0.7	ELWA2M3	500
M4	4.3	8	0.5	ELWA2M4	500
M5	5.1	9	0.5	ELWA2M5	200
M6	6.4	11	0.7	ELWA2M6	200
M8	8.4	15	0.8	ELWA2M8	200
M10	10.5	18	0.9	ELWA2M10	200
M12	13	20.5	1	ELWA2M12	100
M16	17	26	1.2	ELWA2M16	100
M20	21	33	1.4	ELWA2M20	100
M24	25	38	1.5	ELWA2M24	100
M30	31	48	1.6	ELWA2M30	100

CPS

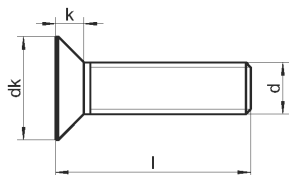
Metal Thread Screw

Countersunk Phillips

DIN 965

A2 304

Stainless steel



dk		3.8	4.7	5.6	7.5	9.2	11.0	14.5
k		1.20	1.50	1.65	2.20	2.50	3.00	4.00
		P1	P1	P1	P2	P2	P3	P4
Length (l)	Size (d)	M2	M2.5	M3	M4	M5	M6	M8
4	Part Number	CPSA2M2X4	CPSA2M25X4	CPSA2M3X4				
	Std Pack	100	100	100				
5	Part Number	CPSA2M2X5	CPSA2M25X5	CPSA2M3X5				
	Std Pack	100	100	100				
6	Part Number	CPSA2M2X6	CPSA2M25X6	CPSA2M3X6	CPSA2M4X6	CPSA2M5X6		
	Std Pack	100	100	100	100	100		
8	Part Number	CPSA2M2X8	CPSA2M25X8	CPSA2M3X8	CPSA2M4X8	CPSA2M5X8	CPSA2M6X8	
	Std Pack	100	100	100	100	100	100	
10	Part Number	CPSA2M2X10	CPSA2M25X10	CPSA2M3X10	CPSA2M4X10	CPSA2M5X10	CPSA2M6X10	CPSA2M8X10
	Std Pack	100	100	100	100	100	100	100
12	Part Number	CPSA2M2X12	CPSA2M25X12	CPSA2M3X12	CPSA2M4X12	CPSA2M5X12	CPSA2M6X12	CPSA2M8X12
	Std Pack	100	100	100	100	100	100	100
16	Part Number	CPSA2M2X16	CPSA2M25X16	CPSA2M3X16	CPSA2M4X16	CPSA2M5X16	CPSA2M6X16	CPSA2M8X16
	Std Pack	100	100	100	100	100	100	100
20	Part Number	CPSA2M2X20	CPSA2M25X20	CPSA2M3X20	CPSA2M4X20	CPSA2M5X20	CPSA2M6X20	CPSA2M8X20
	Std Pack	100	100	100	100	100	100	100
25	Part Number	CPSA2M2X25	CPSA2M25X25	CPSA2M3X25	CPSA2M4X25	CPSA2M5X25	CPSA2M6X25	CPSA2M8X25
	Std Pack	100	100	100	100	100	100	100
30	Part Number			CPSA2M3X30	CPSA2M4X30	CPSA2M5X30	CPSA2M6X30	CPSA2M8X30
	Std Pack			100	100	100	100	100
35	Part Number			CPSA2M3X35	CPSA2M4X35	CPSA2M5X35	CPSA2M6X35	CPSA2M8X35
	Std Pack			100	100	100	100	100
40	Part Number			CPSA2M3X40	CPSA2M4X40	CPSA2M5X40	CPSA2M6X40	CPSA2M8X40
	Std Pack			100	100	100	100	100
45	Part Number					CPSA2M5X45	CPSA2M6X45	CPSA2M8X45
	Std Pack					100	100	100
50	Part Number			CPSA2M3X50	CPSA2M4X50	CPSA2M5X50	CPSA2M6X50	CPSA2M8X50
	Std Pack			100	100	100	100	100
55	Part Number						CPSA2M6X55	
	Std Pack						50	
60	Part Number				CPSA2M4X60		CPSA2M6X60	CPSA2M8X60
	Std Pack				100		50	50
65	Part Number					CPSA2M5X65	CPSA2M6X65	
	Std Pack					50	50	
70	Part Number						CPSA2M6X70	CPSA2M8X70
	Std Pack						50	50
75	Part Number					CPSA2M5X75	CPSA2M6X75	
	Std Pack					50	50	
80	Part Number					CPSA2M5X80	CPSA2M6X80	CPSA2M8X80
	Std Pack					50	50	50
90	Part Number						CPSA2M6X90	CPSA2M8X90
	Std Pack						50	50
100	Part Number					CPSA2M5X100	CPSA2M6X100	CPSA2M8X100
	Std Pack					50	50	50

A4 316

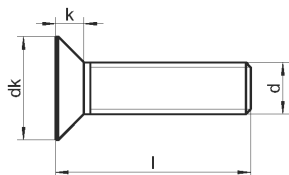
Stainless steel

Metal Thread Screw

CPS

DIN 965

Countersunk Phillips



dk		5.6	7.5	9.2	11.0	14.5
k		1.7	2.2	2.5	3.0	4.0
		P1	P2	P2	P3	P4
Length (l)	Size (d)	M3	M4	M5	M6	M8
6	Part Number	CPSA4M3X6	CPSA4M4X6			
	Std Pack	100	100			
8	Part Number	CPSA4M3X8	CPSA4M4X8			
	Std Pack	100	100			
10	Part Number	CPSA4M3X10	CPSA4M4X10	CPSA4M5X10	CPSA4M6X10	
	Std Pack	100	100	100	100	
12	Part Number	CPSA4M3X12	CPSA4M4X12	CPSA4M5X12	CPSA4M6X12	
	Std Pack	100	100	100	100	
16	Part Number	CPSA4M3X16	CPSA4M4X16	CPSA4M5X16	CPSA4M6X16	CPSA4M8X16
	Std Pack	100	100	100	100	100
20	Part Number	CPSA4M3X20	CPSA4M4X20	CPSA4M5X20	CPSA4M6X20	CPSA4M8X20
	Std Pack	100	100	100	100	100
25	Part Number	CPSA4M3X25	CPSA4M4X25	CPSA4M5X25	CPSA4M6X25	CPSA4M8X25
	Std Pack	100	100	100	100	100
30	Part Number	CPSA4M3X30	CPSA4M4X30	CPSA4M5X30	CPSA4M6X30	CPSA4M8X30
	Std Pack	100	100	100	100	100
35	Part Number	CPSA4M3X35	CPSA4M4X35	CPSA4M5X35	CPSA4M6X35	CPSA4M8X35
	Std Pack	100	100	100	100	100
40	Part Number	CPSA4M3X40	CPSA4M4X40	CPSA4M5X40	CPSA4M6X40	CPSA4M8X40
	Std Pack	100	100	100	100	100
45	Part Number			CPSA4M5X45	CPSA4M6X45	CPSA4M8X45
	Std Pack			100	100	100
50	Part Number	CPSA4M3X50	CPSA4M4X50	CPSA4M5X50	CPSA4M6X50	CPSA4M8X50
	Std Pack	100	100	100	100	100
60	Part Number		CPSA4M4X60			
	Std Pack		100			
65	Part Number			CPSA4M5X65	CPSA4M6X65	CPSA4M8X65
	Std Pack			100	50	50
75	Part Number			CPSA4M5X75	CPSA4M6X75	CPSA4M8X75
	Std Pack			100	50	50
80	Part Number			CPSA4M5X80	CPSA4M6X80	CPSA4M8X80
	Std Pack			100	50	50
100	Part Number			CPSA4M5X100	CPSA4M6X100	CPSA4M8X100
	Std Pack			100	50	50

CPS

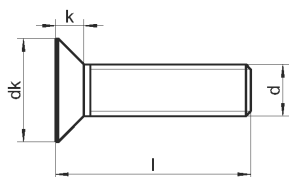
Metal Thread Screw

Countersunk Phillips

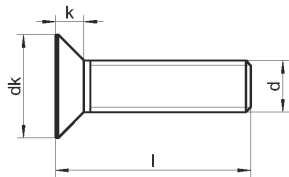
BSW

A2 304

Stainless steel

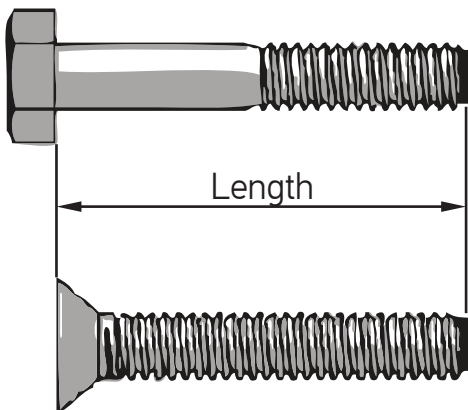


k		0.22"	0.275"	0.33"	0.44"
s		0.056"	.071"	0.084"	.113"
Length (l)	Size (d)	1/8	5/32	3/16	1/4
1/4	Part Number	CPSA218BSWX14	CPSA2532BSWX14	CPSA2316BSWX14	
	Std Pack	100	100	100	
3/8	Part Number	CPSA218BSWX38	CPSA2532BSWX38	CPSA2316BSWX38	
	Std Pack	100	100	100	
1/2	Part Number	CPSA218BSWX12	CPSA2532BSWX12	CPSA2316BSWX12	CPSA214BSWX12
	Std Pack	100	100	100	100
5/8	Part Number			CPSA2316BSWX58	CPSA214BSWX58
	Std Pack			100	100
3/4	Part Number	CPSA218BSWX34	CPSA2532BSWX34	CPSA2316BSWX34	CPSA214BSWX34
	Std Pack	100	100	100	100
1	Part Number	CPSA218BSWX1	CPSA2532BSWX1	CPSA2316BSWX1	CPSA214BSWX1
	Std Pack	100	100	100	100
1 1/4	Part Number			CPSA2316BSWX114	CPSA214BSWX114
	Std Pack			100	100
1 1/2	Part Number			CPSA2316BSWX112	CPSA214BSWX112
	Std Pack			100	100
2	Part Number			CPSA2316BSWX2	CPSA214BSWX2
	Std Pack			100	100
2 1/2	Part Number			CPSA2316BSWX212	CPSA214BSWX212
	Std Pack			100	100
3	Part Number			CPSA2316BSWX3	CPSA214BSWX3
	Std Pack			100	100
4	Part Number				CPSA214BSWX4
	Std Pack				100



dk		0.22"	0.275"	0.33"	0.44"
k		0.056"	.071"	0.084"	.113"
Length (l)	Size (d)	1/8	5/32	3/16	1/4
1/4	Part Number	CPSA418BSWX14	CPSA4532BSWX14	CPSA4316BSWX14	
	Std Pack	100	100	100	
3/8	Part Number	CPSA418BSWX38	CPSA4532BSWX38	CPSA4316BSWX38	
	Std Pack	100	100	100	
1/2	Part Number	CPSA418BSWX12	CPSA4532BSWX12	CPSA4316BSWX12	CPSA414BSWX12
	Std Pack	100	100	100	100
5/8	Part Number			CPSA4316BSWX58	CPSA414BSWX58
	Std Pack			100	100
3/4	Part Number	CPSA418BSWX34	CPSA4532BSWX34	CPSA4316BSWX34	CPSA414BSWX34
	Std Pack	100	100	100	100
1	Part Number	CPSA418BSWX1	CPSA4532BSWX1	CPSA4316BSWX1	CPSA414BSWX1
	Std Pack	100	100	100	100
1 1/4	Part Number			CPSA4316BSWX114	CPSA414BSWX114
	Std Pack			100	100
1 1/2	Part Number			CPSA4316BSWX112	CPSA414BSWX112
	Std Pack			100	100
2	Part Number			CPSA4316BSWX2	CPSA414BSWX2
	Std Pack			100	100
2 1/2	Part Number			CPSA4316BSWX212	CPSA414BSWX212
	Std Pack			100	100
3	Part Number			CPSA4316BSWX3	CPSA414BSWX3
	Std Pack			100	100
4	Part Number				CPSA414BSWX4
	Std Pack				100

Measuring Bolts



Fastener length is usually measured from where the material is to be to the end of the fastener.

Countersunk fasteners are measured overall and non-countersunk fasteners are measured from under the head.

PPS

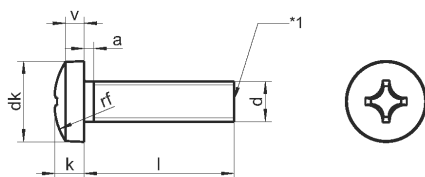
Metal Thread Screw

Pan Phillips

DIN 7985

A2 304

Stainless steel



dk		4	5	6	8	10	12	16
k		1.6	2	2.4	3.1	3.8	4.6	6
v ≈		1.1	1.3	1.6	2	2.5	3	3.7
a		0.80	0.90	1.00	1.00	2.00	2.00	3.00
rf ≈		4	5	6	8	10	12	16
+		P1	P1	P1	P2	P2	P3	P4
Length (l)	Size (d)	M2	M2.5	M3	M4	M5	M6	M8
4	Part Number	PPSA2M2X4	PPSA2M25X4	PPSA2M3X4				
	Std Pack	100	100	100				
5	Part Number	PPSA2M2X5	PPSA2M25X5	PPSA2M3X5				
	Std Pack	100	100	100				
6	Part Number	PPSA2M2X6	PPSA2M25X6	PPSA2M3X6	PPSA2M4X6			
	Std Pack	100	100	100	100			
8	Part Number	PPSA2M2X8	PPSA2M25X8	PPSA2M3X8	PPSA2M4X8	PPSA2M5X8	PPSA2M6X8	
	Std Pack	100	100	100	100	100	100	
10	Part Number	PPSA2M2X10	PPSA2M25X10	PPSA2M3X10	PPSA2M4X10	PPSA2M5X10	PPSA2M6X10	PPSA2M8X10
	Std Pack	100	100	100	100	100	100	100
12	Part Number	PPSA2M2X12	PPSA2M25X12	PPSA2M3X12	PPSA2M4X12	PPSA2M5X12	PPSA2M6X12	PPSA2M8X12
	Std Pack	100	100	100	100	100	100	100
16	Part Number	PPSA2M2X16	PPSA2M25X16	PPSA2M3X16	PPSA2M4X16	PPSA2M5X16	PPSA2M6X16	PPSA2M8X16
	Std Pack	100	100	100	100	100	100	100
20	Part Number	PPSA2M2X20	PPSA2M25X20	PPSA2M3X20	PPSA2M4X20	PPSA2M5X20	PPSA2M6X20	PPSA2M8X20
	Std Pack	100	100	100	100	100	100	100
25	Part Number	PPSA2M2X25	PPSA2M25X25	PPSA2M3X25	PPSA2M4X25	PPSA2M5X25	PPSA2M6X25	PPSA2M8X25
	Std Pack	100	100	100	100	100	100	100
30	Part Number			PPSA2M3X30	PPSA2M4X30	PPSA2M5X30	PPSA2M6X30	PPSA2M8X30
	Std Pack			100	100	100	100	100
35	Part Number			PPSA2MX35	PPSA2M4X35	PPSA2M5X35	PPSA2M6X35	PPSA2M8X35
	Std Pack			100	100	100	100	100
40	Part Number			PPSA2M3X40	PPSA2M4X40	PPSA2M5X40	PPSA2M6X40	PPSA2M8X40
	Std Pack			100	100	100	100	100
45	Part Number					PPSA2M5X45	PPSA2M6X45	PPSA2M8X45
	Std Pack					100	100	100
50	Part Number			PPSA2M3X50	PPSA2M4X50	PPSA2M5X50	PPSA2M6X50	PPSA2M8X50
	Std Pack			100	100	100	100	100
55	Part Number					PPSA2M6X55		
	Std Pack					50		
60	Part Number			PPSA2M4X60		PPSA2M6X60		PPSA2M8X60
	Std Pack			100		50		50
65	Part Number					PPSA2M5X65	PPSA2M6X65	
	Std Pack					100	50	
70	Part Number							PPSA2M8X70
	Std Pack							50
75	Part Number					PPSA2M5X75	PPSA2M6X75	
	Std Pack					100	50	
80	Part Number					PPSA2M5X80	PPSA2M6X80	PPSA2M8X80
	Std Pack					100	50	50
90	Part Number					PPSA2M6X90		PPSA2M8X90
	Std Pack					50		50
100	Part Number					PPSA2M5X100	PPSA2M6X100	PPSA2M8X100
	Std Pack					100	50	50

A4 316

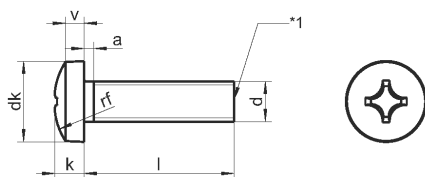
Stainless steel

Metal Thread Screw

PPS

DIN 7985

Pan Phillips



dk		6.0	8.0	10.0	12.0	16.0
k		2.4	3.1	3.8	4.6	6.0
v ≈		1.6	2.0	2.5	3.0	3.7
a		1	1	2	2	3
rf ≈		6.00	8.00	10.00	12.00	16.00
		P1	P2	P2	P3	P4
Length (l)	Size (d)	M3	M4	M5	M6	M8
6	Part Number	PPSA4M3X6	PPSA4M4X6			
	Std Pack	100	100			
8	Part Number	PPSA4M3X8	PPSA4M4X8			
	Std Pack	100	100			
10	Part Number	PPSA4M3X10	PPSA4M4X10	PPSA4M5X10	PPSA4M6X10	
	Std Pack	100	100	100	100	
12	Part Number	PPSA4M3X12	PPSA4M4X12	PPSA4M5X12	PPSA4M6X12	
	Std Pack	100	100	100	100	
16	Part Number	PPSA4M3X16	PPSA4M4X16	PPSA4M5X16	PPSA4M6X16	PPSA4M8X16
	Std Pack	100	100	100	100	100
20	Part Number	PPSA4M3X20	PPSA4M4X20	PPSA4M5X20	PPSA4M6X20	PPSA4M8X20
	Std Pack	100	100	100	100	100
25	Part Number	PPSA4M3X25	PPSA4M4X25	PPSA4M5X25	PPSA4M6X25	PPSA4M8X25
	Std Pack	100	100	100	100	100
30	Part Number	PPSA4M3X30	PPSA4M4X30	PPSA4M5X30	PPSA4M6X30	PPSA4M8X30
	Std Pack	100	100	100	100	100
35	Part Number	PPSA4M3X35	PPSA4M4X35	PPSA4M5X35	PPSA4M6X35	PPSA4M8X35
	Std Pack	100	100	100	100	100
40	Part Number	PPSA4M3X40	PPSA4M4X40	PPSA4M5X40	PPSA4M6X40	PPSA4M8X40
	Std Pack	100	100	100	100	100
45	Part Number			PPSA4M5X45	PPSA4M6X45	PPSA4M8X45
	Std Pack			100	100	100
50	Part Number	PPSA4M3X50	PPSA4M4X50	PPSA4M5X50	PPSA4M6X50	PPSA4M8X50
	Std Pack	100	100	100	100	100
60	Part Number		PPSA4M4X60			
	Std Pack		100			
65	Part Number			PPSA4M5X65	PPSA4M6X65	PPSA4M8X65
	Std Pack			100	50	50
75	Part Number			PPSA4M5X75	PPSA4M6X75	PPSA4M8X75
	Std Pack			100	50	50
80	Part Number			PPSA4M5X80	PPSA4M6X80	PPSA4M8X80
	Std Pack			100	50	50
100	Part Number			PPSA4M5X100	PPSA4M6X100	PPSA4M8X100
	Std Pack			100	50	50

PPS

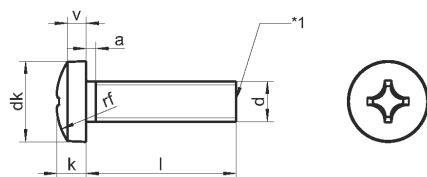
Metal Thread Screw

Pan Phillips

BSW

A2 304

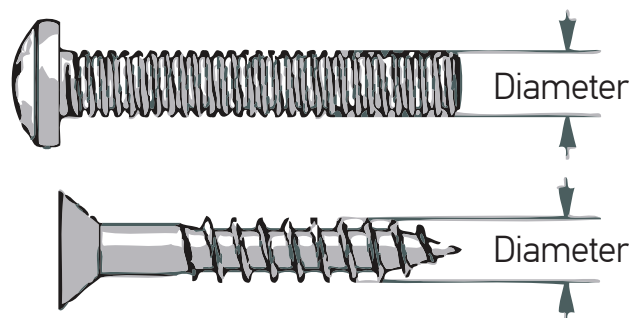
Stainless steel

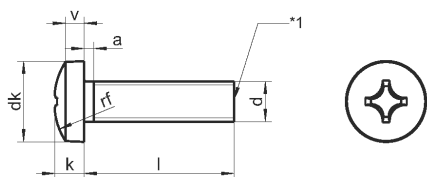


	dk				
	k				
	v ≈				
	a				
	rf ≈				
Length (l)	Size (d)	1/8	5/32	3/16	1/4
1/4	Part Number	PPSA218BSWX14	PPSA2532BSWX14	PPSA2316BSWX14	
	Std Pack	100	100	100	
3/8	Part Number	PPSA218BSWX38	PPSA2532BSWX38	PPSA2316BSWX38	
	Std Pack	100	100	100	
1/2	Part Number	PPSA218BSWX12	PPSA2532BSWX12	PPSA2316BSWX12	PPSA214BSWX12
	Std Pack	100	100	100	100
5/8	Part Number			PPSA2316BSWX58	PPSA214BSWX58
	Std Pack			100	100
3/4	Part Number	PPSA218BSWX34	PPSA2532BSWX34	PPSA2316BSWX34	PPSA214BSWX34
	Std Pack	100	100	100	100
1	Part Number	PPSA218BSWX1	PPSA2532BSWX1	PPSA2316BSWX1	PPSA214BSWX1
	Std Pack	100	100	100	100
1 1/4	Part Number			PPSA2316BSWX114	PPSA214BSWX114
	Std Pack			100	100
1 1/2	Part Number			PPSA2316BSWX112	PPSA214BSWX112
	Std Pack			100	100
2	Part Number			PPSA2316BSWX2	PPSA214BSWX2
	Std Pack			100	100
2 1/2	Part Number			PPSA2316BSWX212	PPSA214BSWX212
	Std Pack			100	100
3	Part Number			PPSA2316BSWX3	PPSA214BSWX3
	Std Pack			100	100
4	Part Number				PPSA214BSWX4
	Std Pack				100

Measuring Fasteners

For most types of fasteners, the diameter is measured on the **outside of the threads**.





dk					
k					
v ≈					
a					
rf ≈					
Length (l)	Size (d)	1/8	5/32	3/16	1/4
1/4	Part Number	PPSA418BSWX14	PPSA4532BSWX14	PPSA4316BSWX14	
	Std Pack	100	100	100	
3/8	Part Number	PPSA418BSWX38	PPSA4532BSWX38	PPSA4316BSWX38	
	Std Pack	100	100	100	
1/2	Part Number	PPSA418BSWX12	PPSA4532BSWX12	PPSA4316BSWX12	PPSA414BSWX12
	Std Pack	100	100	100	100
5/8	Part Number			PPSA4316BSWX58	PPSA414BSWX58
	Std Pack			100	100
3/4	Part Number	PPSA418BSWX34	PPSA4532BSWX34	PPSA4316BSWX34	PPSA414BSWX34
	Std Pack	100	100	100	100
1	Part Number	PPSA418BSWX1	PPSA4532BSWX1	PPSA4316BSWX1	PPSA414BSWX1
	Std Pack	100	100	100	100
1 1/4	Part Number			PPSA4316BSWX114	PPSA414BSWX114
	Std Pack			100	100
1 1/2	Part Number			PPSA4316BSWX112	PPSA414BSWX112
	Std Pack			100	100
2	Part Number			PPSA4316BSWX2	PPSA414BSWX2
	Std Pack			100	100
2 1/2	Part Number			PPSA4316BSWX212	PPSA414BSWX212
	Std Pack			100	100
3	Part Number			PPSA4316BSWX3	PPSA414BSWX3
	Std Pack			100	100
4	Part Number				PPSA414BSWX4
	Std Pack				100

SCS

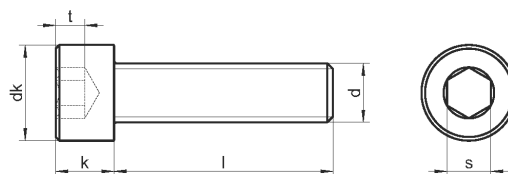
Socket Screw

Hexagon Socket Cap

DIN 912
ISO 4762

A2 304

Stainless steel



	dk	3.8	4.5	5.5	7.0	8.5
	k	2.0	2.6	3.0	4.0	5.0
	s	2	2	3	3	4
	t	1	1.1	1.3	2	2.5
Length (l)	Size (d)	M2	M2.5	M3	M4	M5
6	Part Number	SCSA2M2X6	SCSA2M25X6	SCSA2M3X6	SCSA2M4X6	
	Std Pack	100	100	100	100	
8	Part Number	SCSA2M2X8	SCSA2M25X8	SCSA2M3X8	SCSA2M4X8	SCSA2M5X8
	Std Pack	100	100	100	100	100
10	Part Number	SCSA2M2X10	SCSA2M25X10	SCSA2M3X10	SCSA2M4X10	SCSA2M5X10
	Std Pack	100	100	100	100	100
12	Part Number	SCSA2M2X12	SCSA2M25X12	SCSA2M3X12	SCSA2M4X12	SCSA2M5X12
	Std Pack	100	100	100	100	100
16	Part Number	SCSA2M2X16	SCSA2M25X16	SCSA2M3X16	SCSA2M4X16	SCSA2M5X16
	Std Pack	100	100	100	100	100
20	Part Number	SCSA2M2X20	SCSA2M25X20	SCSA2M3X20	SCSA2M4X20	SCSA2M5X20
	Std Pack	100	100	100	100	100
25	Part Number	SCSA2M2X25	SCSA2M25X25	SCSA2M3X25	SCSA2M4X25	SCSA2M5X25
	Std Pack	100	100	100	100	100
30	Part Number			SCSA2M3X30	SCSA2M4X30	SCSA2M5X30
	Std Pack			100	100	100
35	Part Number			SCSA2M3X35	SCSA2M4X35	SCSA2M5X35
	Std Pack			100	100	100
40	Part Number			SCSA2M3X40	SCSA2M4X40	SCSA2M5X40
	Std Pack			100	100	100
45	Part Number			SCSA2M3X45	SCSA2M4X45	SCSA2M5X45
	Std Pack			100	100	100
50	Part Number			SCSA2M3X50	SCSA2M4X50	SCSA2M5X50
	Std Pack			100	100	100
60	Part Number				SCSA2M4X60	SCSA2M5X60
	Std Pack				100	100

* Some sizes maybe full or part thread.m

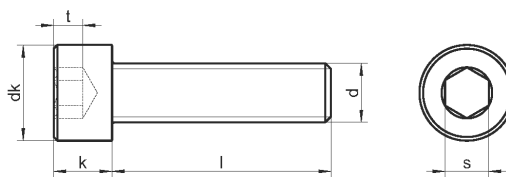
A2 304

Stainless steel

Socket Screw

SCSDIN 912
ISO 4762

Hexagon Socket Cap



	dk	10.0	13.0	16.0	18.0	24.0
	k	6.0	8.0	10.0	12.0	16.0
	s	5	6	8	10	14
	t	3	4	5	6	8
Length (l)	Size (d)	M6	M8	M10	M12	M16
10	Part Number	SCSA2M6X10				
	Std Pack	100				
12	Part Number	SCSA2M6X12	SCSA2M8X12			
	Std Pack	100	100			
16	Part Number	SCSA2M6X16	SCSA2M8X16	SCSA2M10X16		
	Std Pack	100	100	100		
20	Part Number	SCSA2M6X20	SCSA2M8X20	SCSA2M10X20	SCSA2M12X20	
	Std Pack	100	100	100	100	
25	Part Number	SCSA2M6X25	SCSA2M8X25	SCSA2M10X25	SCSA2M12X25	
	Std Pack	100	100	100	100	
30	Part Number	SCSA2M6X30	SCSA2M8X30	SCSA2M10X30	SCSA2M12X30	SCSA2M16X30
	Std Pack	100	100	100	100	25
35	Part Number	SCSA2M6X35	SCSA2M8X35	SCSA2M10X35	SCSA2M12X35	SCSA2M16X35
	Std Pack	100	100	100	100	25
40	Part Number	SCSA2M6X40	SCSA2M8X40	SCSA2M10X40	SCSA2M12X40	SCSA2M16X40
	Std Pack	100	100	100	50	25
45	Part Number	SCSA2M6X45	SCSA2M8X45	SCSA2M10X45	SCSA2M12X45	SCSA2M16X45
	Std Pack	100	100	100	50	25
50	Part Number	SCSA2M6X50	SCSA2M8X50	SCSA2M10X50	SCSA2M12X50	SCSA2M16X50
	Std Pack	100	100	100	50	25
55	Part Number	SCSA2M6X55	SCSA2M8X55			
	Std Pack	100	100			
60	Part Number	SCSA2M6X60	SCSA2M8X60	SCSA2M10X60	SCSA2M12X60	SCSA2M16X60
	Std Pack	50	50	50	25	25
65	Part Number		SCSA2M8X65			
	Std Pack		50			
70	Part Number	SCSA2M6X70	SCSA2M8X70	SCSA2M10X70	SCSA2M12X70	SCSA2M16X70
	Std Pack	50	50	50	25	25
80	Part Number	SCSA2M6X80	SCSA2M8X80	SCSA2M10X80	SCSA2M12X80	SCSA2M16X80
	Std Pack	50	50	50	25	25
90	Part Number	SCSA2M6X90	SCSA2M8X90	SCSA2M10X90	SCSA2M12X90	SCSA2M16X90
	Std Pack	50	50	50	25	25
100	Part Number	SCSA2M6X100	SCSA2M8X100	SCSA2M10X100	SCSA2M12X100	SCSA2M16X100
	Std Pack	50	50	50	25	25
120	Part Number					SCSA2M16X120
	Std Pack					25

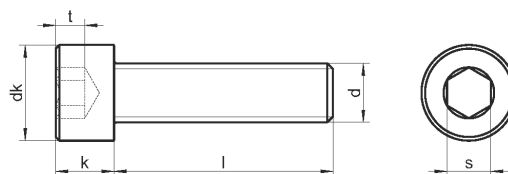
SCS

Socket Screw

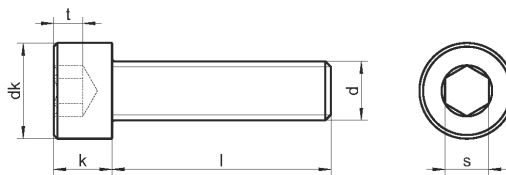
Hexagon Socket Cap

DIN 912
ISO 4762**A4 316**

Stainless steel



	dk	5.5	7.0	8.5	10.0	13.0
	k	3.0	4.0	5.0	6.0	8.0
	s	2.5	3	4	5	6
	t	1.3	2.00	2.50	3.00	4.00
Length (l)	Size (d)	M3	M4	M5	M6	M8
6	Part Number	SCSA4M3X6				
	Std Pack	100				
8	Part Number	SCSA4M3X8	SCSA4M4X8			
	Std Pack	100	100			
10	Part Number	SCSA4M3X10	SCSA4M4X10	SCSA4M5X10	SCSA4M6X10	
	Std Pack	100	100	100	100	
12	Part Number	SCSA4M3X12	SCSA4M4X12	SCSA4M5X12	SCSA4M6X12	
	Std Pack	100	100	100	100	
16	Part Number	SCSA4M3X16	SCSA4M4X16	SCSA4M5X16	SCSA4M6X16	SCSA4M8X16
	Std Pack	100	100	100	100	100
20	Part Number	SCSA4M3X20	SCSA4M4X20	SCSA4M5X20	SCSA4M6X20	SCSA4M8X20
	Std Pack	100	100	100	100	100
25	Part Number	SCSA4M3X25	SCSA4M4X25	SCSA4M5X25	SCSA4M6X25	SCSA4M8X25
	Std Pack	100	100	100	100	100
30	Part Number		SCSA4M4X30	SCSA4M5X30	SCSA4M6X30	SCSA4M8X30
	Std Pack		100	100	100	100
35	Part Number			SCSA4M5X35	SCSA4M6X35	SCSA4M8X35
	Std Pack			100	100	100
40	Part Number		SCSA4M4X40	SCSA4M5X40	SCSA4M6X40	SCSA4M8X40
	Std Pack		100	100	100	100
50	Part Number		SCSA4M4X50	SCSA4M5X50	SCSA4M6X50	SCSA4M8X50
	Std Pack		100	100	100	100
60	Part Number		SCSA4M4X60	SCSA4M5X60	SCSA4M6X60	SCSA4M8X60
	Std Pack		100	100	50	50
70	Part Number			SCSA4M5X70	SCSA4M6X70	SCSA4M8X70
	Std Pack			50	50	50
80	Part Number			SCSA4M5X80	SCSA4M6X80	SCSA4M8X80
	Std Pack			50	50	50
90	Part Number			SCSA4M5X90	SCSA4M6X90	SCSA4M8X90
	Std Pack			50	50	50
100	Part Number			SCSA4M5X100	SCSA4M6X100	SCSA4M8X100
	Std Pack			50	50	50



dk		16.0	18.0	24.0	30.0	36.0
k		10.0	12.0	16.0	20.0	24.0
s		8	10	14	17	19
t		5.00	6.00	8.00	10.00	12.00
Length (l)	Size (d)	M10	M12	M16	M20	M24
20	Part Number	SCSA4M10X20	SCSA4M12X20			
	Std Pack	100	100			
25	Part Number	SCSA4M10X25	SCSA4M12X25			
	Std Pack	100	100			
30	Part Number	SCSA4M10X30	SCSA4M12X30	SCSA4M16X30		
	Std Pack	100	100	25		
35	Part Number	SCSA4M10X35	SCSA4M12X35	SCSA4M16X35		
	Std Pack	100	100	100		
40	Part Number	SCSA4M10X40	SCSA4M12X40	SCSA4M16X40	SCSA4M20X40	
	Std Pack	100	50	25	10	
50	Part Number	SCSA4M10X50	SCSA4M12X50	SCSA4M16X50	SCSA4M20X50	SCSA4M24X50
	Std Pack	100	50	25	10	10
60	Part Number	SCSA4M10X60	SCSA4M12X60	SCSA4M16X60	SCSA4M20X60	SCSA4M24X60
	Std Pack	50	25	25	10	10
70	Part Number	SCSA4M10X70	SCSA4M12X70	SCSA4M16X70		
	Std Pack	50	25	25		
80	Part Number	SCSA4M10X80	SCSA4M12X80	SCSA4M16X80	SCSA4M20X80	SCSA4M24X80
	Std Pack	50	25	25	10	10
90	Part Number	SCSA4M10X90	SCSA4M12X90	SCSA4M16X90		
	Std Pack	50	25	25		
100	Part Number	SCSA4M10X100	SCSA4M12X100	SCSA4M16X100	SCSA4M20X100	SCSA4M24X100
	Std Pack	50	25	25	10	10

Drive Types



Phillips



Slotted



Pozidriv



Square

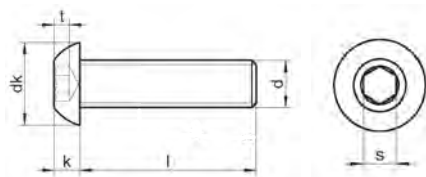


Combo

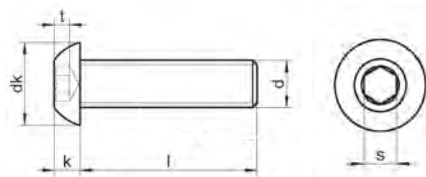

 Hex socket
(Allen)


Torx

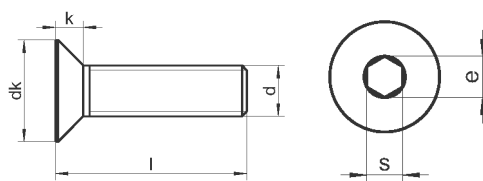
Phillips and **Slotted** drives are common in screws, but prone to cam-out (stripping). **Combo** drives, that can be used with either driver, are available for many fastener types. **Pozidriv** are similar to Phillips, but less prone to cam-out. **Hex socket (Allen)** drives are compact and easy to drive, but prone to cam-out. **Torx** and **Square** drive are resistant to cam-out and can be installed single-handed,



dk		5.7	7.6	9.5	10.5	14.0	17.5	21.0
k		1.7	2.2	2.8	3.3	4.4	5.5	6.6
s		2	3	3	4	5	6	8
e		1.04	1.30	1.56	2.08	2.60	3.12	4.16
t		2	3	3	4	5	6	8
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12
6	Part Number	BCSA2M3X6	BCSA2M4X6					
	Std Pack	100	100					
8	Part Number	BCSA2M3X8	BCSA2M4X8	BCSA2M5X8				
	Std Pack	100	100	100				
10	Part Number	BCSA2M3X10	BCSA2M4X10	BCSA2M5X10	BCSA2M6X10			
	Std Pack	100	100	100	100			
12	Part Number	BCSA2M3X12	BCSA2M4X12	BCSA2M5X12	BCSA2M6X12	BCSA2M8X12		
	Std Pack	100	100	100	100	100		
16	Part Number	BCSA2M3X16	BCSA2M4X16	BCSA2M5X16	BCSA2M6X16	BCSA2M8X16	BCSA2M10X16	
	Std Pack	100	100	100	100	100	50	
20	Part Number	BCSA2M3X20	BCSA2M4X20	BCSA2M5X20	BCSA2M6X20	BCSA2M8X20	BCSA2M10X20	BCSA2M12X20
	Std Pack	100	100	100	100	100	50	25
25	Part Number	BCSA2M3X25	BCSA2M4X25	BCSA2M5X25	BCSA2M6X25	BCSA2M8X25	BCSA2M10X25	BCSA2M12X25
	Std Pack	100	100	100	100	100	50	25
30	Part Number	BCSA2M3X30	BCSA2M4X30	BCSA2M5X30	BCSA2M6X30	BCSA2M8X30	BCSA2M10X30	BCSA2M12X30
	Std Pack	100	100	100	100	100	50	25
35	Part Number			BCSA2M5X35	BCSA2M6X35	BCSA2M8X35	BCSA2M10X35	BCSA2M12X35
	Std Pack			100	100	100	50	25
40	Part Number	BCSA2M3X40	BCSA2M4X40	BCSA2M5X40	BCSA2M6X40	BCSA2M8X40	BCSA2M10X40	BCSA2M12X40
	Std Pack	100	100	100	100	100	50	25
45	Part Number			BCSA2M5X45	BCSA2M6X45	BCSA2M8X45	BCSA2M10X45	
	Std Pack			100	100	100	50	
50	Part Number	BCSA2M3X50	BCSA2M4X50	BCSA2M5X50	BCSA2M6X50	BCSA2M8X50	BCSA2M10X50	BCSA2M12X50
	Std Pack	100	100	100	100	100	50	25
60	Part Number			BCSA2M5X60	BCSA2M6X60	BCSA2M8X60	BCSA2M10X60	BCSA2M12X60
	Std Pack			100	100	100	50	25
70	Part Number				BCSA2M6X70	BCSA2M8X70	BCSA2M10X70	BCSA2M12X70
	Std Pack				100	100	50	25
80	Part Number				BCSA2M6X80	BCSA2M8X80	BCSA2M10X80	BCSA2M12X80
	Std Pack				100	50	50	25
100	Part Number				BCSA2M6X100	BCSA2M8X100	BCSA2M10X100	BCSA2M12X100
	Std Pack				100	50	50	25



dk		5.7	7.6	9.5	10.5	14.0	17.5	21.0
k		1.7	2.2	2.75	3.3	4.4	5.5	6.6
s		2	3	3	4	5	6	8
e		1.04	1.30	1.56	2.08	2.60	3.12	4.16
t		2	2.5	3	4	5	6	8
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12
6	Part Number	BCSA4M3X6	BCSA4M4X6					
	Std Pack	100	100					
8	Part Number	BCSA4M3X8	BCSA4M4X8	BCSA4M5X8				
	Std Pack	100	100	100				
10	Part Number	BCSA4M3X10	BCSA4M4X10	BCSA4M5X10	BCSA4M6X10			
	Std Pack	100	100	100	100			
12	Part Number	BCSA4M3X12	BCSA4M4X12	BCSA4M5X12	BCSA4M6X12			
	Std Pack	100	100	100	100			
16	Part Number	BCSA4M3X16	BCSA4M4X16	BCSA4M5X16	BCSA4M6X16	BCSA4M8X16		
	Std Pack	100	100	100	100	100		
20	Part Number	BCSA4M3X20	BCSA4M4X20	BCSA4M5X20	BCSA4M6X20	BCSA4M8X20	BCSA4M10X20	BCSA4M12X20
	Std Pack	100	100	100	100	100	50	25
25	Part Number	BCSA4M3X25	BCSA4M4X25	BCSA4M5X25	BCSA4M6X25	BCSA4M8X25	BCSA4M10X25	BCSA4M12X25
	Std Pack	100	100	100	100	100	50	25
30	Part Number	BCSA4M3X30	BCSA4M4X30	BCSA4M5X30	BCSA4M6X30	BCSA4M8X30	BCSA4M10X30	BCSA4M12X30
	Std Pack	100	100	100	100	100	50	25
35	Part Number			BCSA4M5X35	BCSA4M6X35	BCSA4M8X35	BCSA4M10X35	BCSA4M12X35
	Std Pack			100	100	100	50	25
40	Part Number	BCSA4M3X40	BCSA4M4X40	BCSA4M5X40	BCSA4M6X40	BCSA4M8X40	BCSA4M10X40	BCSA4M12X40
	Std Pack	100	100	100	100	100	50	25
45	Part Number			BCSA4M5X45	BCSA4M6X45	BCSA4M8X45	BCSA4M10X45	
	Std Pack			100	100	100	50	
50	Part Number	BCSA4M3X50	BCSA4M4X50	BCSA4M5X50	BCSA4M6X50	BCSA4M8X50	BCSA4M10X50	BCSA4M12X50
	Std Pack	100	100	100	100	100	50	25
60	Part Number			BCSA4M5X60	BCSA4M6X60	BCSA4M8X60	BCSA4M10X60	BCSA4M12X60
	Std Pack			100	100	100	50	25
70	Part Number				BCSA4M6X70	BCSA4M8X70	BCSA4M10X70	BCSA4M12X70
	Std Pack				100	100	50	25
80	Part Number				BCSA4M6X80	BCSA4M8X80	BCSA4M10X80	BCSA4M12X80
	Std Pack				100	50	50	25
100	Part Number				BCSA4M6X100	BCSA4M8X100	BCSA4M10X100	BCSA4M12X100
	Std Pack				100	50	50	25



	dk	6.0	8.0	10.0	12.0	16.0	20.0	24.0
	k	1.7	2.3	2.8	3.3	4.4	5.5	6.5
	s	2	3	3	4	5	6	8
	e	2.30	2.87	3.44	4.58	5.72	6.86	9.15
	●	2	3	3	4	5	6	8
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12
6	Part Number	CCSA2M3X6	CCSA2M4X6	CCSA2M5X6				
	Std Pack	100	100	100				
8	Part Number	CCSA2M3X8	CCSA2M4X8	CCSA2M5X8				
	Std Pack	100	100	100				
10	Part Number	CCSA2M3X10	CCSA2M4X10	CCSA2M5X10	CCSA2M6X10			
	Std Pack	100	100	100	100			
12	Part Number	CCSA2M3X12	CCSA2M4X12	CCSA2M5X12	CCSA2M6X12	CCSA2M8X12		
	Std Pack	100	100	100	100	100		
16	Part Number	CCSA2M3X16	CCSA2M4X16	CCSA2M5X16	CCSA2M6X16	CCSA2M8X16	CCSA2M10X16	
	Std Pack	100	100	100	100	100	50	
20	Part Number	CCSA2M3X20	CCSA2M4X20	CCSA2M5X20	CCSA2M6X20	CCSA2M8X20	CCSA2M10X20	CCSA2M12X20
	Std Pack	100	100	100	100	100	50	25
25	Part Number	CCSA2M3X25	CCSA2M4X25	CCSA2M5X25	CCSA2M6X25	CCSA2M8X25	CCSA2M10X25	CCSA2M12X25
	Std Pack	100	100	100	100	100	50	25
30	Part Number	CCSA2M3X30	CCSA2M4X30	CCSA2M5X30	CCSA2M6X30	CCSA2M8X30	CCSA2M10X30	CCSA2M12X30
	Std Pack	100	100	100	100	100	50	25
35	Part Number		CCSA2M4X35	CCSA2M5X35	CCSA2M6X35	CCSA2M8X35	CCSA2M10X35	CCSA2M12X35
	Std Pack		100	100	100	100	50	25
40	Part Number	CCSA2M3X40	CCSA2M4X40	CCSA2M5X40	CCSA2M6X40	CCSA2M8X40	CCSA2M10X40	CCSA2M12X40
	Std Pack	100	100	100	100	100	50	25
45	Part Number			CCSA2M5X45	CCSA2M6X45	CCSA2M8X45	CCSA2M10X45	CCSA2M12X45
	Std Pack			100	100	100	50	25
50	Part Number	CCSA2M3X50	CCSA2M4X50	CCSA2M5X50	CCSA2M6X50	CCSA2M8X50	CCSA2M10X50	CCSA2M12X50
	Std Pack	100	100	100	100	100	50	25
60	Part Number		CCSA2M4X60	CCSA2M5X60	CCSA2M6X60	CCSA2M8X60	CCSA2M10X60	CCSA2M12X60
	Std Pack		100	100	50	50	50	25
65	Part Number							CCSA2M12X65
	Std Pack							25
70	Part Number			CCSA2M5X70	CCSA2M6X70	CCSA2M8X70	CCSA2M10X70	CCSA2M12X70
	Std Pack			100	50	50	50	25
80	Part Number			CCSA2M5X80	CCSA2M6X80	CCSA2M8X80	CCSA2M10X80	CCSA2M12X80
	Std Pack			100	50	50	50	25
90	Part Number					CCSA2M8X90	CCSA2M10X90	CCSA2M12X90
	Std Pack					50	50	25
100	Part Number				CCSA2M6X100	CCSA2M8X100	CCSA2M10X100	CCSA2M12X100
	Std Pack				50	50	50	25

A4 316

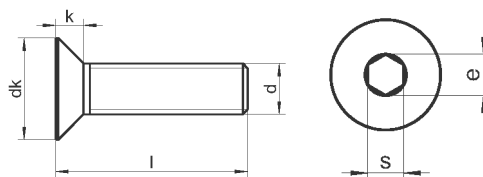
Stainless steel

Socket Screw

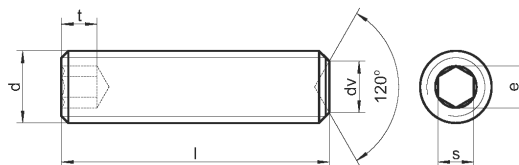
CCS

DIN 7991

Countersunk



	dk	6	8.0	10.0	12.0	16.0	20.0	24.0	
	k	1.7	2.3	2.8	3.3	4.4	5.5	6.5	
	s	2	2.5	3	4	5	6	8	
	e	2.3	2.87	3.44	4.58	5.72	6.86	9.15	
	●	2	2.5	3	4	5	6	8	
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12	
6	Part Number	CCSA4M3X6	CCSA4M4X6	CCSA4M5X6					
	Std Pack	100	100	100					
8	Part Number	CCSA4M3X8	CCSA4M4X8	CCSA4M5X8					
	Std Pack	100	100	100					
10	Part Number	CCSA4M3X10	CCSA4M4X10	CCSA4M5X10	CCSA4M6X10				
	Std Pack	100	100	100	100				
12	Part Number	CCSA4M3X12	CCSA4M4X12	CCSA4M5X12	CCSA4M6X12	CCSA4M8X12			
	Std Pack	100	100	100	100	100			
16	Part Number	CCSA4M3X16	CCSA4M4X16	CCSA4M5X16	CCSA4M6X16	CCSA4M8X16			
	Std Pack	100	100	100	100	100			
20	Part Number	CCSA4M3X20	CCSA4M4X20	CCSA4M5X20	CCSA4M6X20	CCSA4M8X20	CCSA4M10X20	CCSA4M12X20	
	Std Pack	100	100	100	100	100	100	25	
25	Part Number	CCSA4M3X25	CCSA4M4X25	CCSA4M5X25	CCSA4M6X25	CCSA4M8X25	CCSA4M10X25	CCSA4M12X25	
	Std Pack	100	100	100	100	100	100	25	
30	Part Number	CCSA4M3X30	CCSA4M4X30	CCSA4M5X30	CCSA4M6X30	CCSA4M8X30	CCSA4M10X30	CCSA4M12X30	
	Std Pack	100	100	100	100	100	100	25	
35	Part Number				CCSA4M5X35	CCSA4M6X35	CCSA4M8X35	CCSA4M10X35	CCSA4M12X35
	Std Pack				100	100	100	100	25
40	Part Number	CCSA4M3X40	CCSA4M4X40	CCSA4M5X40	CCSA4M6X40	CCSA4M8X40	CCSA4M10X40	CCSA4M12X40	
	Std Pack	100	100	100	100	100	100	25	
45	Part Number				CCSA4M5X45	CCSA4M6X45	CCSA4M8X45	CCSA4M10X45	CCSA4M12X45
	Std Pack				100	100	50	50	25
50	Part Number	CCSA4M3X50	CCSA4M4X50	CCSA4M5X50	CCSA4M6X50	CCSA4M8X50	CCSA4M10X50	CCSA4M12X50	
	Std Pack	100	100	100	100	50	100	25	
60	Part Number			CCSA4M4X60	CCSA4M5X60	CCSA4M6X60	CCSA4M8X60	CCSA4M10X60	CCSA4M12X60
	Std Pack			100	100	50	50	50	25
70	Part Number				CCSA4M5X70	CCSA4M6X70	CCSA4M8X70	CCSA4M10X70	CCSA4M12X70
	Std Pack				100	50	50	50	25
80	Part Number				CCSA4M5X80	CCSA4M6X80	CCSA4M8X80	CCSA4M10X80	CCSA4M12X80
	Std Pack				100	50	50	50	25
90	Part Number					CCSA4M8X90	CCSA4M10X90	CCSA4M12X90	
	Std Pack					50	50	25	
100	Part Number					CCSA4M6X100	CCSA4M8X100	CCSA4M10X100	CCSA4M12X100
	Std Pack					50	50	50	25



	dk	5.7	7.6	9.5	10.5	14.0	17.5
	k	1.7	2.2	2.8	3.3	4.4	5.5
	s	2	3	3	4	5	6
	e	1.04	1.30	1.56	2.08	2.60	3.12
	●	2	3	3	4	5	6
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10
3	Part Number	SSSA2M3X3					
	Std Pack	100					
4	Part Number	SSSA2M3X4	SSSA2M4X4	SSSA2M5X4			
	Std Pack	100	100	100			
5	Part Number	SSSA2M3X5	SSSA2M4X5	SSSA2M5X5	SSSA2M6X5		
	Std Pack	100	100	100	100		
6	Part Number	SSSA2M3X6	SSSA2M4X6	SSSA2M5X6	SSSA2M6X6	SSSA2M8X6	
	Std Pack	100	100	100	100	100	
8	Part Number	SSSA2M3X8	SSSA2M4X8	SSSA2M5X8	SSSA2M6X8	SSSA2M8X8	
	Std Pack	100	100	100	100	100	
10	Part Number	SSSA2M3X10	SSSA2M4X10	SSSA2M5X10	SSSA2M6X10	SSSA2M8X10	SSSA2M10X10
	Std Pack	100	100	100	100	100	100
12	Part Number	SSSA2M3X12	SSSA2M4X12	SSSA2M5X12	SSSA2M6X12	SSSA2M8X12	SSSA2M10X12
	Std Pack	100	100	100	100	100	100
16	Part Number	SSSA2M3X16	SSSA2M4X16	SSSA2M5X16	SSSA2M6X16	SSSA2M8X16	SSSA2M10X16
	Std Pack	100	100	100	100	100	100
20	Part Number	SSSA2M3X20	SSSA2M4X20	SSSA2M5X20	SSSA2M6X20	SSSA2M8X20	SSSA2M10X20
	Std Pack	100	100	100	100	100	100
25	Part Number	SSSA2M3X25	SSSA2M4X25	SSSA2M5X25	SSSA2M6X25	SSSA2M8X25	SSSA2M10X25
	Std Pack	100	100	100	100	100	100
30	Part Number			SSSA2M5X30	SSSA2M6X30	SSSA2M8X30	SSSA2M10X30
	Std Pack			100	100	100	100
40	Part Number				SSSA2M6X40	SSSA2M8X40	SSSA2M10X40
	Std Pack				100	100	100
50	Part Number				SSSA2M6X50	SSSA2M8X50	SSSA2M10X50
	Std Pack				100	100	100



Hex bolts are used in machinery and construction. Can be used with a nut, or in a tapped hole. Fully threaded hex bolts are also known as **Set Screws/Bolts**.



Batten screws have large threads and a smooth shank for pulling two pieces of material together. They can be used in wood and other soft materials.



Sheet metal screws have sharp points and threads, and are designed to be driven directly into sheet metal. They can also be used in softer materials like plastic, fiberglass, or wood.



Machine screws are fully threaded for use with a nut or in a tapped hole. Can also be known as a **Metal Thread Screw**.



Socket screws are machine screws with an internal hex socket (Allen) drive. Longer lengths may have a shank.



Hex Coach Screws, are large wood screws with hex heads. Typically used for wood construction and landscaping.



Cup head Square neck bolts have smooth, domed heads with a square section underneath that pulls into the material to prevent spinning during installation.



Nuts are used to fasten machine threaded fasteners in through-hole applications. **Lock nuts** help prevent loosening.



Washers spread the load over a greater surface area when tightening a bolt, screw or nut. **Lock washers** help preventing loosening.

BBS

Bugle Batten Screw

T17 With Ribs

A2 304

Stainless steel



Length (mm)	Gauge	TPI	Part Number	Std Pack
35	14	10	BBSA214GX35	250
50	14	10	BBSA214GX50	250
65	14	10	BBSA214GX65	100
75	14	10	BBSA214GX75	100
100	14	10	BBSA214GX100	100
120	14	10	BBSA214GX120	100
150	14	10	BBSA214GX150	100

BBS

Bugle Batten Screw

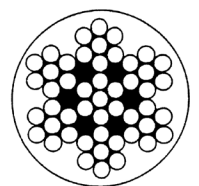
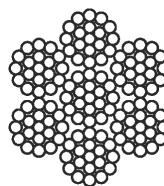
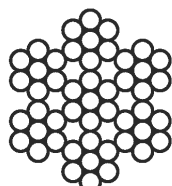
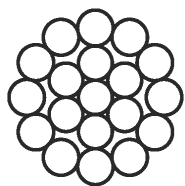
T17 With Ribs

A4 316

Stainless steel

Length (mm)	Gauge	TPI	Part Number	Std Pack
50	14	10	BBSA414GX50	250
65	14	10	BBSA414GX65	100
75	14	10	BBSA414GX75	100
100	14	10	BBSA414GX100	100
120	14	10	BBSA414GX120	100
150	14	10	BBSA414GX150	100

Wire Rope



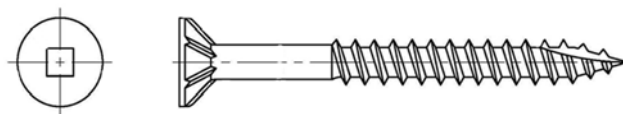
Wire Rope Page 84

A2 304

Stainless steel

Decking Screw

Square Drive T17

SDS

Gauge	l	TPI	Part Number	Pack
8	50	10	SDSA28GX50	200
10	40	12	SDA210GX40	200
10	50	12	SDSA210GX50	200
10	65	12	SDSA210GX65	200
10	75	12	SDSA210GX75	200

A4 316

Stainless steel

Decking Screw

Square Drive T17

SDS

Gauge	l	TPI	Part Number	Pack
8	50	10	SDSA48GX50	200
10	50	12	SDSA410GX50	200
10	65	12	SDSA410GX65	200
10	75	12	SDSA410GX75	200

A2 304

Stainless steel

Decking Screw

Square Drive Trim Head T17

SDT

Gauge	l	TPI	Part Number	Pack
8	50	10	SDTA28GX50	200
10	50	8	SDTA210GX50	200
10	65	8	SDTA210GX65	200

CST

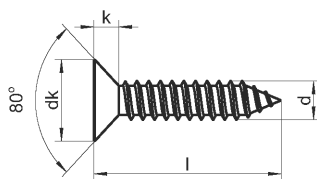
Self Tapping Screw

Countersunk Phillips

DIN 7982C

A2 304

Stainless steel



dk		4.3	5.5	6.8	8.1	9.5	10.8	12.4
~k		1.30	1.70	2.10	2.50	3.00	3.40	3.80
		P1	P1	P2	P2	P2	P3	P3
l" (mm)	Gauge	2G	4G	6G	8G	10G	12G	14G
1/4 (6.5)	Part Number	CSTA226X6	CSTA246X6	CSTA266X6	CSTA286X6			
	Std Pack	200	200	200	200			
3/8" (9.5)	Part Number	CSTA226X95	CSTA246X95	CSTA266X95	CSTA286X95	CSTA2106X95		
	Std Pack	200	200	200	200	100		
1/2" (13)	Part Number	CSTA226X13	CSTA246X13	CSTA266X13	CSTA286X13	CSTA2106X13	CSTA2126X13	
	Std Pack	200	200	200	200	100	100	
5/8" (16)	Part Number	CSTA226X16	CSTA246X16	CSTA266X16	CSTA286X16	CSTA2106X16	CSTA2126X16	
	Std Pack	200	200	200	200	100	100	
3/4" (19)	Part Number	CSTA226X19	CSTA246X19	CSTA266X19	CSTA286X19	CSTA2106X19	CSTA2126X19	CSTA2146X19
	Std Pack	200	200	200	200	100	100	100
1" (25)	Part Number	CSTA226X25	CSTA246X25	CSTA266X25	CSTA286X25	CSTA2106X25	CSTA2126X25	CSTA2146X25
	Std Pack	200	200	200	200	100	100	100
1 1/4" (32)	Part Number		CSTA246X32	CSTA266X32	CSTA286X32	CSTA2106X32	CSTA2126X32	CSTA2146X32
	Std Pack		200	200	200	100	100	100
1 1/2" (38)	Part Number			CSTA266X38	CSTA286X38	CSTA2106X38	CSTA2126X38	CSTA2146X38
	Std Pack			200	200	100	100	100
1 3/4" (45)	Part Number			CSTA266X45	CSTA286X45	CSTA2106X45	CSTA2126X45	CSTA2146X45
	Std Pack			200	200	100	100	100
2" (50)	Part Number			CSTA266X50	CSTA286X50	CSTA2106X50	CSTA2126X50	CSTA2146X50
	Std Pack			200	200	100	100	100
2 1/2" (65)	Part Number				CSTA286X65	CSTA2106X65	CSTA2126X65	CSTA2146X65
	Std Pack				100	100	100	100
3" (75)	Part Number				CSTA286X75	CSTA2106X75	CSTA2126X75	CSTA2146X75
	Std Pack				100	100	100	100
4" (100)	Part Number				CSTA286X100	CSTA2106X100	CSTA2126X100	CSTA2146X100
	Std Pack				100	100	100	100

A4 316

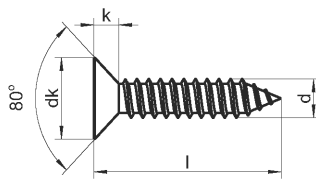
Stainless steel

Self Tapping Screw

CST

DIN 7982C

Countersunk Phillips



dk		5.5	6.8	8.1	9.5	10.8	12.4	12.4
~k		1.7	2.1	2.5	3	3.4	3.8	3.80
		P1	P2	P2	P2	P3	P3	P3
l" (mm)	Gauge	Gauge	4G	6G	8G	10G	12G	14G
1/4" (6.5)	Part Number	Part Number	CSTA446X6	CSTA466X6	CSTA486X6			
	Std Pack	Std Pack	100	100	100			
3/8" (9.5)	Part Number	Part Number	CSTA446X95	CSTA466X95	CSTA486X95			
	Std Pack	Std Pack	100	100	100			
1/2" (13)	Part Number	Part Number	CSTA446X13	CSTA466X13	CSTA486X13	CSTA4106X13	CSTA4126X13	
	Std Pack	Std Pack	100	100	100	100	100	
5/8" (16)	Part Number	Part Number	CSTA446X16	CSTA466X16	CSTA486X16	CSTA4106X16	CSTA4126X16	
	Std Pack	Std Pack	100	100	100	100	100	
3/4" (19)	Part Number	Part Number	CSTA446X19	CSTA466X19	CSTA486X19	CSTA4106X19	CSTA4126X19	CSTA4146X19
	Std Pack	Std Pack	100	100	100	100	100	100
1" (25)	Part Number	Part Number	CSTA446X25	CSTA466X25	CSTA486X25	CSTA4106X25	CSTA4126X25	CSTA4146X25
	Std Pack	Std Pack	100	100	100	100	100	100
1 1/4" (32)	Part Number	Part Number		CSTA466X32	CSTA486X32	CSTA4106X32	CSTA4126X32	CSTA4146X32
	Std Pack	Std Pack		100	100	100	100	100
1 1/2" (38)	Part Number	Part Number		CSTA466X38	CSTA486X38	CSTA4106X38	CSTA4126X38	CSTA4146X38
	Std Pack	Std Pack		100	100	100	100	100
1 3/4" (45)	Part Number	Part Number		CSTA466X45	CSTA486X45	CSTA4106X45	CSTA4126X45	CSTA4146X45
	Std Pack	Std Pack		100	100	100	100	100
2" (50)	Part Number	Part Number		CSTA466X50	CSTA486X50	CSTA4106X50	CSTA4126X50	CSTA4146X50
	Std Pack	Std Pack		100	100	100	100	100
2 1/2" (65)	Part Number	Part Number			CSTA486X65	CSTA4106X65	CSTA4126X65	CSTA4146X65
	Std Pack	Std Pack			100	100	100	100
3" (75)	Part Number	Part Number			CSTA486X75	CSTA4106X75	CSTA4126X75	CSTA4146X75
	Std Pack	Std Pack			100	100	100	100
4" (100)	Part Number	Part Number			CSTA486X100	CSTA4106X100	CSTA4126X100	CSTA4146X100
	Std Pack	Std Pack			100	100	100	100

Drive Types



Phillips



Slotted



Pozidriv



Square



Combo

Hex socket
(Allen)

Torx

Phillips and **Slotted** drives are common in screws, but prone to cam-out (stripping). **Combo** drives, that can be used with either driver, are available for many fastener types. **Posidriv** are similar to Phillips, but less prone to cam-out. **Hex socket (Allen)** drives are compact and easy to drive, but prone to cam-out. **Torx** and **Square** drive are resistant to cam-out and can be installed single-handed,

PST

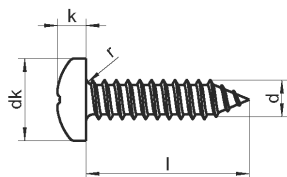
Self Tapping Screw

Pan Phillips

DIN 7981C

A2 304

Stainless steel



dk		4.2	5.6	6.9	8.2	9.5	10.8	12.5
k min.		1.55	1.95	2.35	2.75	3.25	3.65	4.25
k max.		1.80	2.20	2.60	3.05	3.55	3.95	4.55
r max.		0.3	0.4	0.5	0.6	0.7	0.8	0.9
		P1	P1	P2	P2	P2	P3	P3
l" (mm)	Gauge	2G	4G	6G	8G	10G	12G	14G
1/4 (6.5)	Part Number	PSTA226X6	PSTA246X6	PSTA266X6	PSTA286X6			
	Std Pack	200	200	200	200			
3/8" (9.5)	Part Number	PSTA226X95	PSTA246X95	PSTA266X95	PSTA286X95	PSTA210GX95		
	Std Pack	200	200	200	200	200		
1/2" (13)	Part Number	PSTA226X13	PSTA246X13	PSTA266X13	PSTA286X13	PSTA210GX13	PSTA212GX13	
	Std Pack	200	200	200	200	100	100	
5/8" (16)	Part Number	PSTA226X16	PSTA246X16	PSTA266X16	PSTA286X16	PSTA210GX16	PSTA212GX16	
	Std Pack	200	200	200	200	100	100	
3/4" (19)	Part Number	PSTA226X19	PSTA246X19	PSTA266X19	PSTA286X19	PSTA210GX19	PSTA212GX19	PSTA214GX19
	Std Pack	200	200	200	200	100	100	100
1" (25)	Part Number	PSTA226X25	PSTA246X25	PSTA266X25	PSTA286X25	PSTA210GX25	PSTA212GX25	PSTA214GX25
	Std Pack	200	200	200	200	100	100	100
1 1/4" (32)	Part Number		PSTA246X32	PSTA266X32	PSTA286X32	PSTA210GX32	PSTA212GX32	PSTA214GX32
	Std Pack		200	200	200	100	100	100
1 1/2" (38)	Part Number			PSTA266X38	PSTA286X38	PSTA210GX38	PSTA212GX38	PSTA214GX38
	Std Pack			200	200	100	100	100
1 3/4" (45)	Part Number			PSTA266X45	PSTA286X45	PSTA210GX45	PSTA212GX45	PSTA214GX45
	Std Pack			200	200	100	100	100
2" (50)	Part Number			PSTA266X50	PSTA286X50	PSTA210GX50	PSTA212GX50	PSTA214GX50
	Std Pack			200	200	100	100	100
2 1/2" (65)	Part Number				PSTA286X65	PSTA210GX65	PSTA212GX65	PSTA214GX65
	Std Pack				100	100	100	100
3" (75)	Part Number				PSTA286X75	PSTA210GX75	PSTA212GX75	PSTA214GX75
	Std Pack				100	100	100	100
4" (100)	Part Number				PSTA286X100	PSTA210GX100	PSTA212GX100	PSTA214GX100
	Std Pack				100	100	100	100

A4 316

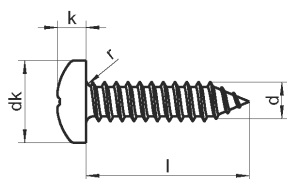
Stainless steel

Self Tapping Screw

PST

DIN 7981C

Pan Phillips



dk		4.2	5.6	6.9	8.2	9.5	10.8
k min.		1.55	1.95	2.35	2.75	3.25	3.65
k max.		1.80	2.20	2.60	3.05	3.55	3.95
r max.		0.3	0.4	0.5	0.6	0.7	0.8
		P1	P1	P2	P2	P2	P3
l" (mm)	Gauge	4G	6G	8G	10G	12G	14G
1/4 (6.5)	Part Number	PSTA44GX6	PSTA46GX6	PSTA48GX6			
	Std Pack	100	100	100			
3/8" (9.5)	Part Number	PSTA44GX95	PSTA46GX95	PSTA48GX95			
	Std Pack	100	100	100			
1/2" (13)	Part Number	PSTA44GX13	PSTA46GX13	PSTA48GX13	PSTA410GX13	PSTA412GX13	
	Std Pack	100	100	100	100	100	
5/8" (16)	Part Number	PSTA44GX16	PSTA46GX16	PSTA48GX16	PSTA410GX16	PSTA412GX16	
	Std Pack	100	100	100	100	100	
3/4" (19)	Part Number	PSTA44GX19	PSTA46GX19	PSTA48GX19	PSTA410GX19	PSTA412GX19	PSTA414GX19
	Std Pack	100	100	100	100	100	100
1" (25)	Part Number	PSTA44GX25	PSTA46GX25	PSTA48GX25	PSTA410GX25	PSTA412GX25	PSTA414GX25
	Std Pack	100	100	100	100	100	100
1 1/4" (32)	Part Number		PSTA46GX32	PSTA48GX32	PSTA410GX32	PSTA412GX32	PSTA414GX32
	Std Pack		100	100	100	100	100
1 1/2" (38)	Part Number		PSTA46GX38	PSTA48GX38	PSTA410GX38	PSTA412GX38	PSTA414GX38
	Std Pack		100	100	100	100	100
1 3/4" (45)	Part Number		PSTA46GX45	PSTA48GX45	PSTA410GX45	PSTA412GX45	PSTA414GX45
	Std Pack		100	100	100	100	100
2" (50)	Part Number		PSTA46GX50	PSTA48GX50	PSTA410GX50	PSTA412GX50	PSTA414GX50
	Std Pack		100	100	100	100	100
2 1/2" (65)	Part Number			PSTA48GX65	PSTA410GX65	PSTA412GX65	PSTA414GX65
	Std Pack			100	100	100	100
3" (75)	Part Number			PSTA48GX75	PSTA410GX75	PSTA412GX75	PSTA414GX75
	Std Pack			100	100	100	100
4" (100)	Part Number			PSTA48GX100	PSTA410GX100	PSTA412GX100	
	Std Pack			100	100	100	

Stainless Steel Properties

What Is A2-70 Stainless Steel?

DIN/ISO A2 Stainless Steel is a corrosion resistant steel; *it is also known as ASTM-304.*

A2 / ASTM-304 is an 18/8 Stainless Steel: this designates a metallurgical content of 18% chromium & 8% nickel.

A bolt marked A2-70 is a 304 stainless steel bolt with a 700 n/mm² tensile strength. The 70 representing the tensile strength divided by 10. 50 & 80 Grades are also available but are not all that common.

A2 / 304 Stainless Steel is what is known as an austenitic stainless steel: it is (mostly) non-magnetic though some residual magnetism can be introduced when the material is cold worked.

A2 / 304 Stainless Steel is one of the most highly corrosion-resistant materials available to the designer and engineer.

CSQ

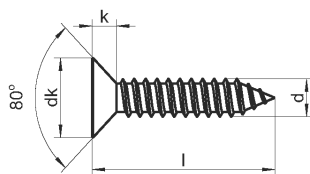
Self Tapping Screw

Countersunk Square Drive

DIN 7982 V

A2 304

Stainless steel



dk		7.5	8.1	9.5
k		2.3	2.5	3.0
d		3.9	4.2	4.8
l" (mm)	Size	6G	8G	10G
13	Part Number	CSQA266X13	CSQA286X13	CSQA2106X13
	Std Pack	200	100	100
16	Part Number	CSQA266X16	CSQA286X16	CSQA2106X16
	Std Pack	200	100	100
19	Part Number	CSQA266X19	CSQA286X19	CSQA2106X19
	Std Pack	200	100	100
25	Part Number	CSQA266X25	CSQA286X25	CSQA2106X25
	Std Pack	200	100	100
32	Part Number	CSQA266X32	CSQA286X32	CSQA2106X32
	Std Pack	200	100	100
38	Part Number	CSQA266X38	CSQA286X38	CSQA2106X38
	Std Pack	200	100	100
45	Part Number	CSQA266X45	CSQA286X45	CSQA2106X45
	Std Pack	200	100	100
50	Part Number	CSQA266X50	CSQA286X50	CSQA2106X50
	Std Pack	200	100	100
65	Part Number		CSQA286X65	CSQA2106X65
	Std Pack		100	100
75	Part Number		CSQA286X75	CSQA2106X75
	Std Pack		100	100

A2 304

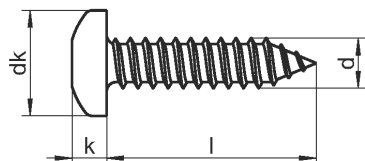
Stainless steel

Self Tapping Screw

PSQ

DIN 7982

Pan Square Drive



dk		7.5	8.1	9.5
k		2.3	2.5	3.0
d		3.9	4.2	4.8
l" (mm)	Size	6G	8G	10G
(1/2) 13	Part Number	PSQA266X13	PSQA286X13	PSQA2106X13
	Std Pack	200	100	100
(5/8) 16	Part Number	PSQA266X16	PSQA286X16	PSQA2106X16
	Std Pack	200	100	100
(3/4) 19	Part Number	PSQA266X19	PSQA286X19	PSQA2106X19
	Std Pack	200	100	100
(1) 25	Part Number	PSQA266X25	PSQA286X25	PSQA2106X25
	Std Pack	200	100	100
(1 1/4) 32	Part Number	PSQA266X32	PSQA286X32	PSQA2106X32
	Std Pack	200	100	100
(1 1/2) 38	Part Number	PSQA266X38	PSQA286X38	PSQA2106X38
	Std Pack	200	100	100
(1 3/4) 45	Part Number	PSQA266X45	PSQA286X45	PSQA2106X45
	Std Pack	200	100	100
(2) 50	Part Number	PSQA266X50	PSQA286X50	PSQA2106X50
	Std Pack	200	100	100
(2 1/2) 65	Part Number		PSQA286X65	PSQA2106X65
	Std Pack		100	100
(3) 75	Part Number		PSQA286X75	PSQA2106X75
	Std Pack		100	100

XDS

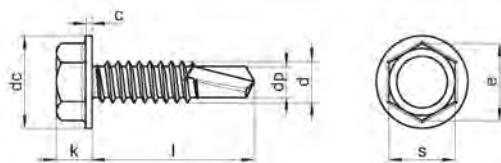
Self Drilling Screw

Hexagon Flange

DIN 7504 K

A2 304

Stainless steel



dp		2.8	3.1	3.6	4.1	4.8	5.8
s		5.5	5.5	7.0	8.0	8.0	10.0
c		0.6	0.6	0.9	0.9	1.0	1.0
k		3.4	3.4	4.1	4.3	5.4	5.9
dc max		8.3	8	9	11	11	14
e		5.96	5.96	7.59	8.71	8.71	10.95
Hex		5.5	5.5	7	8	8	10
l" (mm)	Gauge	6G	7G	8G	10G	12G	14G
3/8 (9.5)	Part Number	XDSA2M35X95					
	Std Pack	1000					
1/2 (13)	Part Number	XDSA2M35X13	XDSA2M39X13	XDSA2M42X13	XDSA2M48X13		
	Std Pack	1000	1000	1000	1000		
5/8 (16)	Part Number	XDSA2M35X16	XDSA2M39X16	XDSA2M42X16	XDSA2M48X16		
	Std Pack	1000	1000	1000	1000		
3/4 (19)	Part Number	XDSA2M35X19	XDSA2M39X19	XDSA2M42X19	XDSA2M48X19	XDSA2M55X19	XDSA2M63X19
	Std Pack	1000	1000	1000	1000	1000	1000
7/8 (22)	Part Number		XDSA2M39X22	XDSA2M42X22	XDSA2M48X22	XDSA2M55X22	XDSA2M63X22
	Std Pack		1000	1000	1000	1000	1000
1 (25)	Part Number	XDSA2M35X25	XDSA2M39X25	XDSA2M42X25	XDSA2M48X25	XDSA2M55X25	XDSA2M63X25
	Std Pack	1000	1000	1000	1000	1000	1000
1 1/4 (32)	Part Number		XDSA2M39X32	XDSA2M42X32	XDSA2M48X32	XDSA2M55X32	XDSA2M63X32
	Std Pack		1000	1000	1000	1000	1000
1 1/2 (38)	Part Number		XDSA2M39X38	XDSA2M42X38	XDSA2M48X38	XDSA2M55X38	XDSA2M63X38
	Std Pack		1000	1000	1000	1000	1000
1 3/4 (45)	Part Number				XDSA2M48X45	XDSA2M55X45	
	Std Pack				1000	1000	
2 (50)	Part Number				XDSA2M48X50	XDSA2M55X50	XDSA2M63X50
	Std Pack				1000	1000	1000
2 1/2 (60)	Part Number					XDSA2M55X60	
	Std Pack					1000	
3 (70)	Part Number					XDSA2M55X70	
	Std Pack					1000	

A2 304

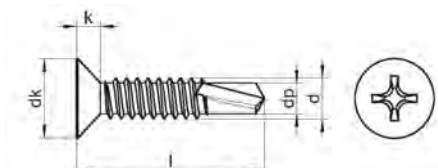
Stainless steel

Self Drilling Screw

CDS

DIN 7504 0

Countersunk Phillips



dk		6.80	7.50	8.10	9.50
k		2.10	2.30	2.50	3.00
l" (mm)	Gauge (Size) d	6G (3.5mm)	7G (3.9mm)	8G (4.2mm)	10G (4.8mm)
13	Part Number	CDSA2M35X13	CDSA2M39X13	CDSA2M42X13	CDSA2M48X13
	Std Pack	1000	1000	1000	1000
16	Part Number	CDSA2M35X16	CDSA2M39X16	CDSA2M42X16	CDSA2M48X16
	Std Pack	1000	1000	1000	1000
19	Part Number	CDSA2M35X19	CDSA2M39X19	CDSA2M42X19	CDSA2M48X19
	Std Pack	1000	1000	1000	1000
22	Part Number	CDSA2M35X22	CDSA2M39X22	CDSA2M42X22	CDSA2M48X22
	Std Pack	1000	1000	1000	1000
25	Part Number	CDSA2M35X25	CDSA2M39X25	CDSA2M42X25	CDSA2M48X25
	Std Pack	1000	1000	1000	1000
32	Part Number		CDSA2M39X32	CDSA2M42X32	CDSA2M48X32
	Std Pack		1000	1000	1000
38	Part Number		CDSA2M39X38	CDSA2M42X38	CDSA2M48X38
	Std Pack		1000	1000	1000
45	Part Number			CDSA2M42X45	CDSA2M48X45
	Std Pack			1000	1000
50	Part Number			CDSA2M42X50	
	Std Pack			1000	
60	Part Number			CDSA2M42X60	
	Std Pack			1000	

Head Styles



Hex heads are typically used with larger bolt and screws.



Round heads are tall domed heads, used primarily for a decorative purposes.



Pan heads have a slightly domed head that sits above the surface.



Socket heads are narrow with a socket drive, and knurled or smooth sides.



Countersunk heads are installed in a countersunk hole for a flat surface.



Button heads feature a medium dome. Typically used with hex socket drive.

PDS

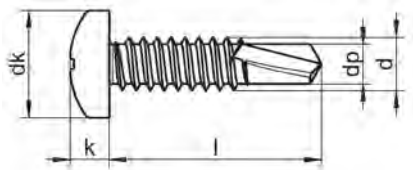
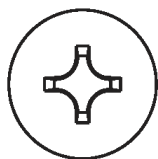
Self Drilling Screw

Pan Head Phillips

DIN 7504 M

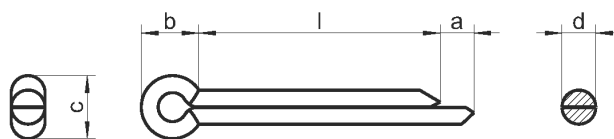
A2 304

Stainless steel



dk		6.80	7.50	8.10	9.50
k		2.10	2.30	2.50	3.00
l" (mm)	Gauge (Size) d	6G (3.5mm)	7G (3.9mm)	8G (4.2mm)	10G (4.8mm)
9.5 (3/8)	Part Number	PDSA2M35X95			
	Std Pack	1000			
13 (1/2)	Part Number	PDSA2M35X13	PDSA2M39X13	PDSA2M42X13	PDSA2M48X13
	Std Pack	1000	1000	1000	1000
16 (5/8)	Part Number	PDSA2M35X16	PDSA2M39X16	PDSA2M42X16	PDSA2M48X16
	Std Pack	1000	1000	1000	1000
19 (3/4)	Part Number	PDSA2M35X19	PDSA2M39X19	PDSA2M42X19	PDSA2M48X19
	Std Pack	1000	1000	1000	1000
22 (7/8)	Part Number	PDSA2M35X22	PDSA2M39X22	PDSA2M42X22	PDSA2M48X22
	Std Pack	1000	1000	1000	1000
25 (1)	Part Number	PDSA2M35X25	PDSA2M39X25	PDSA2M42X25	PDSA2M48X25
	Std Pack	1000	1000	1000	1000
32 (1 1/4)	Part Number		PDSA2M39X32	PDSA2M42X32	PDSA2M48X32
	Std Pack		1000	1000	1000
38 (1 1/2)	Part Number		PDSA2M39X38	PDSA2M42X38	PDSA2M48X38
	Std Pack		1000	1000	1000
45 (1 3/4)	Part Number				PDSA2M48X45
	Std Pack				1000
50 (2)	Part Number				PDSA2M48X50
	Std Pack				1000

Size			Pitch (mm)		Threads Per Inch (TPI)		
			Coarse	Fine	UNC	UNF	BSW
M1.6		#0	0.35			80	
M2		#1	0.4			72	
		#2			56	64	
M2.5		#3	0.45		48	56	
		#4			40	48	
M3	1/8"	#5	0.5		40	44	40
M3.5		#6	0.6		32	40	
M4		#8	0.7		32	36	
M5	3/16"	#10	0.8		24	32	24
		#12			24	28	
M6	1/4"		1		20	28	20
M8	5/16"		1.25	1	18	24	18
M10	3/8"		1.5	1.25	16	24	16
	7/16"				14	20	14
M12	1/2"		1.75	1.5	13	20	12
M14	9/16"		2	1.5	12	18	12
M16	5/8"		2	1.5	11	18	11
M18			2.5	1.5			
M20	3/4"		2.5	1.5	10	16	10
M22	7/8"		2.5	1.5	3	14	9
M24	1"		3	2	8	12(14)	8
M27	1 1/8"		3	2	7	12	7
M30	1 1/4"		3.5	2	7	12	7
M33	1 3/8"		3.5	2	6	12	6
M36	1 1/2"		4	3	6	12	6
M39	1 5/8"		4	3			5
M42			4.5				
M45	1 3/4"		4.5		5		5
M48	1 7/8"		5				



a			0.80	1.25	1.25	1.25	1.25
b ≈			3.0	3.0	3.2	4.0	5.0
c			1.6	1.7	2.4	3.2	4.0
d min			0.8	0.9	1.3	1.7	2.1
d max			0.9	1.0	1.4	1.8	2.3
l" (mm)		0.8	1.0	1.2	1.6	2	2.5
10	Part Number	SPIA2M08X10	SPIA2M1X10		SPIA2M16X10	SPIA2M2X10	
	Std Pack	200	200		200	200	
12	Part Number	SPIA2M08X12	SPIA2M1X12	SPIA2M12X12	SPIA2M16X12	SPIA2M2X12	SPIA2M25X12
	Std Pack	200	200	200	200	200	200
14	Part Number				SPIA2M16X14		
	Std Pack				200		
16	Part Number	SPIA2M08X16	SPIA2M1X16	SPIA2M12X16	SPIA2M16X16	SPIA2M2X16	SPIA2M25X16
	Std Pack	200	200	200	200	200	200
20	Part Number	SPIA2M08X20	SPIA2M1X20	SPIA2M12X20	SPIA2M16X20	SPIA2M2X20	SPIA2M25X20
	Std Pack	200	200	200	200	200	200
25	Part Number	SPIA2M08X25	SPIA2M1X25	SPIA2M12X25	SPIA2M16X25	SPIA2M2X25	SPIA2M25X25
	Std Pack	200	200	200	200	200	200
32	Part Number	SPIA2M08X32	SPIA2M1X32	SPIA2M12X32	SPIA2M16X32	SPIA2M2X32	SPIA2M25X32
	Std Pack	200	200	200	200	200	200
36	Part Number						SPIA2M25X36
	Std Pack						200
40	Part Number				SPIA2M16X40	SPIA2M2X40	SPIA2M25X40
	Std Pack				200	200	200
50	Part Number						SPIA2M25X50
	Std Pack						200



a	1.60	2.00	2.00	2.00	2.00	2.00
b ≈	6.4	8.0	10.0	12.6	16.0	20.0
c	5.1	6.5	8.0	10.3	13.1	16.6
d min	2.7	3.5	4.4	5.7	7.3	9.3
d max	2.9	3.7	4.6	5.9	7.5	9.5
l " (mm)	3.2	4.0	5	6.3	8	10
10	Part Number	SPIA2M32X10				
	Std Pack	200				
12	Part Number	SPIA2M32X12				
	Std Pack	200				
16	Part Number	SPIA2M32X16				
	Std Pack	200				
20	Part Number	SPIA2M32X20	SPIA2M4X20	SPIA2M5X20		
	Std Pack	200	100	100		
25	Part Number	SPIA2M32X25	SPIA2M4X25	SPIA2M5X25	SPIA2M63X25	
	Std Pack	200	100	100	100	
32	Part Number	SPIA2M32X32	SPIA2M4X32	SPIA2M5X32	SPIA2M63X32	
	Std Pack	200	100	100	100	
36	Part Number	SPIA2M32X36	SPIA2M4X36	SPIA2M5X36		
	Std Pack	200	100	100		
40	Part Number	SPIA2M32X40	SPIA2M4X40	SPIA2M5X40	SPIA2M63X40	
	Std Pack	200	100	100	100	
45	Part Number	SPIA2M32X45	SPIA2M4X45	SPIA2M5X45	SPIA2M63X45	
	Std Pack	200	100	100	100	
50	Part Number	SPIA2M32X50	SPIA2M4X50	SPIA2M5X50	SPIA2M63X50	SPIA2M8X50
	Std Pack	200	100	100	100	50
63	Part Number	SPIA2M32X63	SPIA2M4X63	SPIA2M5X63	SPIA2M63X63	SPIA2M8X63
	Std Pack	200	100	100	100	50
71	Part Number			SPIA2M5X71		
	Std Pack			100		
80	Part Number	SPIA2M32X80	SPIA2M4X80	SPIA2M5X80	SPIA2M63X80	SPIA2M8X80
	Std Pack	200	100	100	100	50
90	Part Number			SPIA2M5X90		SPIA2M8X90
	Std Pack			100		50
100	Part Number			SPIA2M5X100	SPIA2M63X100	SPIA2M8X100
	Std Pack			100	100	50

WRO

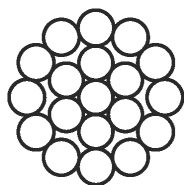
Wire Rope

1 x 19 Construction

Rigid

A4 316

Stainless steel



Diam.	3.2	4.0	5.0	6.0
Part Number	WR01X19A4M32	WR01X19A4M4	WR01X19A4M5	WR01X19A4M6
Length (m)	305	305	305	305

WRO

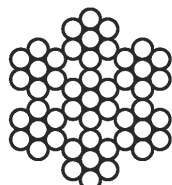
Wire Rope

7 x 7 Construction

Semi Flexible

A4 316

Stainless steel



Diam.	1.0	1.5	2.0	2.5	3.2	3.2
Part Number	WR07X7A4M1	WR07X7A4M15	WR07X7A4M2	WR07X7A4M25	WR07X7A4M32X100	WR07X7A4M32
Length (m)	305	305	305	305	100	305

Diam.	3.2	4.0	5.0	6.0	8.0
Part Number	WR07X7A4M32X1000	WR07X7A4M4	WR07X7A4M5	WR07X7A4M6	WR07X7A4M8
Length (m)	1000	305	305	305	305

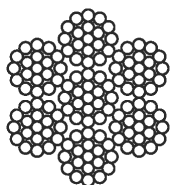
A4 316

Stainless steel

Wire Rope**WRO**

Flexible

7 x 19 Construction



Diam.	2.0	2.5	3.2	4.0
Part Number	WR07X19A4M2	WR07X19A4M25	WR07X19A4M32	WR07X19A4M4
Length (m)	305	305	305	305

Diam.	5.0	6.0	8.0	10.0
Part Number	WR07X19A4M5	WR07X19A4M6	WR07X19A4M8	WR07X19A4M10
Length (m)	305	305	305	305

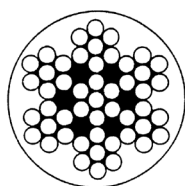
A4 316

Stainless steel

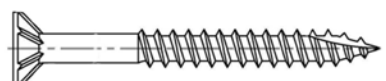
Wire Rope**WRO**

Insulated

White PVC 7 x 7 (For Guard Rails)



Diam.	3.2 (4mm O.D)	4.0 (5mm O.D)
Part Number	WR0PVC7X7A4M32	WR0PVC7X7A4M4
Length (m)	305	305

Decking ScrewBugle Batten Screw
Page 70Decking Screw
Page 71Decking Screw
Page 71

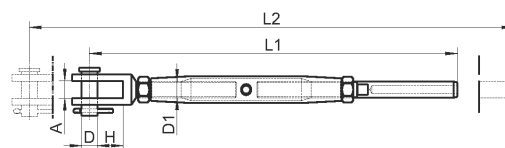
RSC

Rigging Screw / Pipe Turnbuckle

Jaw / Swage

A4 316

Stainless steel



Size D1	L1	A	D	H	L2	Cable size mm	Part Number	Std Pack
M5	155	6.5	5	10	215	3.2	RSCA4M5X32	10
M6	175	7.5	6	10	245	4	RSCA4M6X4	5
M10	230	12	9	14	320	5	RSCA4M10X5	5
M12	285	14	12	20	400	6	RSCA4M12X6	5

RSS

Rigging Screw / Pipe Turnbuckle

Swage / Swage

A4 316

Stainless steel



Size D1	Cable size mm	Part Number	Std Pack
M5	3.2	RSSA4M5X32	10

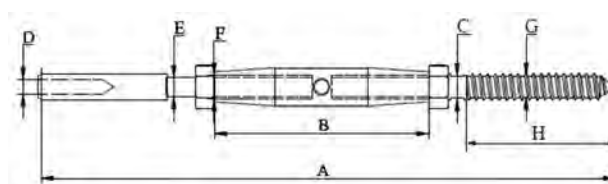
RLS

Rigging Screw / Pipe Turnbuckle

Lag / Swage

A4 316

Stainless steel



Diameter Ø C	A	B	D	H	Part Number	Std Pack
M5	185	80	3.5	40	RLSA4M5X32	10

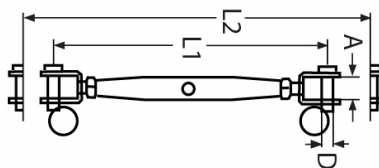
A4 316

Rigging Screw / Pipe Turnbuckle

RTB

Stainless steel

Jaw / Jaw



Size	L1	L2	A	D	Part Number	Std Pack
M5	130	190	6.5	5	RTBA4M5	10
M6	150	220	7.5	6	RTBA4M6	5
M8	165	240	11	8	RTBA4M8	5
M10	190	280	12	9	RTBA4M10	5

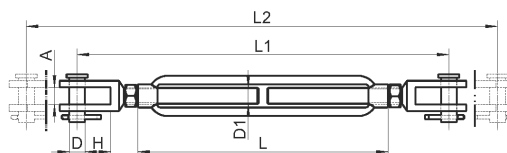
A4 316

Turnbuckle

TJJ

Stainless steel

Jaw/Jaw With Nuts



Diameter / D1	L1	L	A	D	H	L2	Part Number	Std Pack
M5	120	70	6.5	5	10	170	TJJA4M5	10
M6	140	90	7.5	6	10	205	TJJA4M6	5
M8	180	120	11	8	11	270	TJJA4M8	5
M10	220	150	12	9	14	330	TJJA4M10	2
M12	300	200	14	12	20	455	TJJA4M12	2

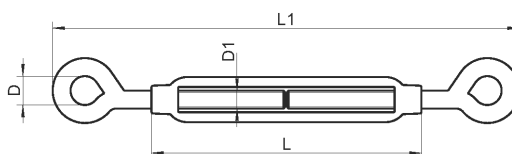
TEE

Turnbuckle

Eye/Eye, With Nuts

A4 316

Stainless steel



Diameter / D1	L	L1	D	Part Number	Std Pack
M4	55	100	8	TEEA4M4	10
M5	70	120	8	TEEA4M5	10
M6	90	150	10	TEEA4M6	5
M8	120	200	14	TEEA4M8	5
M10	150	240	16	TEEA4M10	2
M12	200	310	18	TEEA4M12	2
M16	250	390	26	TEEA4M16	1
M20	300	440	30	TEEA4M20	1

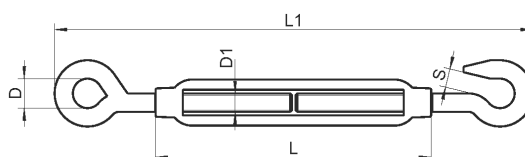
THE

Turnbuckle

Hook/Eye, With Nuts

A4 316

Stainless steel



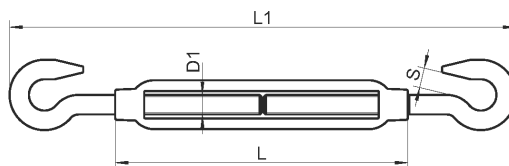
Diameter / D1	L	L1	D	S	Part Number	Std Pack
M4	55	100	8	8	THEA4M4	10
M5	70	120	8	8	THEA4M5	10
M6	90	150	10	9	THEA4M6	5
M8	120	200	14	11	THEA4M8	5
M10	150	240	16	12	THEA4M10	2
M12	200	310	18	14	THEA4M12	2
M16	250	390	26	16	THEA4M16	1
M20	300	440	30	18	THEA4M20	1

A4 316

Stainless steel

Turnbuckle

Hook/Hook, With Nuts

THH

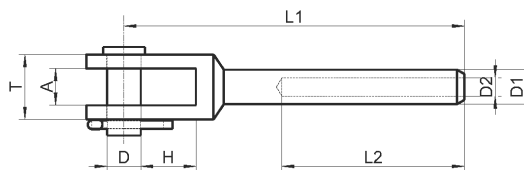
Diameter / D1	L	L1	D	Part Number	Std Pack
M4	55	100	8	THHA4M4	10
M5	70	120	8	THHA4M5	10
M6	90	150	9	THHA4M6	5
M8	120	200	11	THHA4M8	5
M10	150	240	12	THHA4M10	2
M12	200	310	14	THHA4M12	2
M16	250	390	16	THHA4M16	1
M20	300	440	18	THHA4M20	1

A4 316

Stainless steel

Fork Terminal

Jaw/Swage

FTE

Diameter / D	Wire Size	L1	L2	A	D1	D2	H	Part Number	Std Pack
M5	3.2	65	38	7.5	6.35	3.5	9	FTEA4M5X32	10
M6	3	65	32	8.2	6.4	3.2	10	FTEA4M6X3	10
M6	4	65	32	8.2	7.5	4.4	10	FTEA4M6X4	5
M8	5	73	45	9.2	9	5.3	14	FTEA4M8X5	2
M10	6	88	57	12	12.5	6.4	20	FTEA4M10X6	2

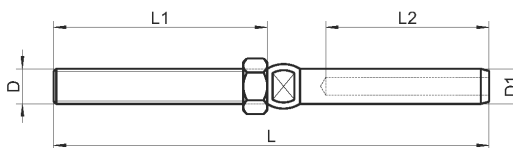
STE

Stud Terminal

Swage

A4 316

Stainless steel



Diameter / D	Wire Size	Thread	L	L1	L2	D1	Part Number	Std Pack
M6	3.2	Right	100	48	39	5.5	STEA4M6X32	10
M6	3.2	Left	100	48	39	5.5	STEA4M6X32L	10
M6	4	Right	100	48	39	6.5	STEA4M6X4	5
M6	4	Left	100	48	39	6.5	STEA4M6X4L	5
M10	5	Right	130	63	52	9	STEA4M10X5	2

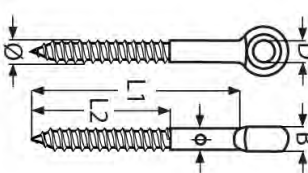
LES

Eye Screw

Lag

A4 316

Stainless steel



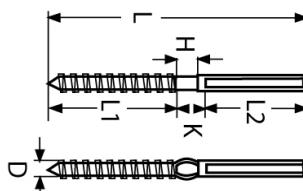
Size Ø	L1	L2	D	B	Part Number	Std Pack
M6	60	40	6.3	7	LESA4M6X60	10
M8	80	55	8.4	9	LESA4M8X80	5
M10	100	65	10.2	11	LESA4M10X100	5

A4 316

Stainless steel

Terminal

Lag / Swage

LST

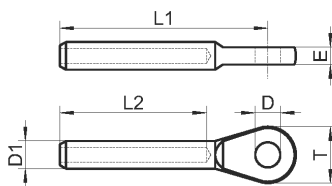
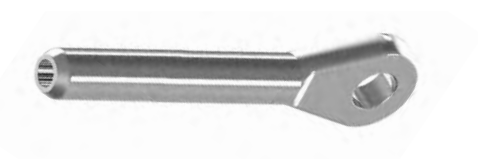
Diameter / D1	Cable size	Thread	D	L	L1	L2	Part Number	Std Pack
M6	3.2	Right	6	97	48	38	LSTA4M6X32	10
M6	3.2	Left	6	97	48	38	LSTA4M6X32L	10
M8	4	Right	8	115	54	45	LSTA4M8X4	5
M8	4	Left	8	115	54	45	LSTA4M8X4L	5

A4 316

Stainless steel

Eye Terminal

Swage

ETE

Diameter / D1	Wire Size	L1	L2	E	D	T	Part Number	Std Pack
M6	3.2	55	36	4	6.5	14	ETEA4M6X32	10
M8	4	65	39	6	8.5	18	ETEA4M8X4	5
M10	5	80	50	7	10	22	ETEA4M10X5	2
M12	6	94	62	8	12.5	28	ETEA4M12X6	2

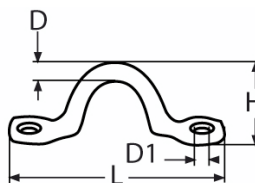
WES

Wire Eye Strap

Saddle

A2 304

Stainless steel



Diameter / Ø	D1	L	H	Part Number	Std Pack
M4	3.2	40	16	WESA2M4	10
M5	4.2	50	18	WESA2M5	10
M6	5	60	22	WESA2M6	10
M8	6	63	24	WESA2M8	10

WES

Wire Eye Strap

Saddle

A4 316

Stainless steel

Diameter / Ø	D1	L	H	Part Number	Std Pack
M4	3.2	40	16	WESA4M4	10
M5	4.2	50	18	WESA4M5	10
M6	5	60	22	WESA4M6	10
M8	6	63	24	WESA4M8	10

Stainless Steel Properties

What Is A2-70 Stainless Steel?

DIN/ISO A2 Stainless Steel is a corrosion resistant steel; *it is also known as ASTM-304.*

A2 / ASTM-304 is an 18/8 Stainless Steel: this designates a metallurgical content of 18% chromium & 8% nickel.

A bolt marked A2-70 is a 304 stainless steel bolt with a 700 n/mm² tensile strength. The 70 representing the tensile strength divided by 10. 50 & 80 Grades are also available but are not all that common.

A2 / 304 Stainless Steel is what is known as an austenitic stainless steel: it is (mostly) non-magnetic though some residual magnetism can be introduced when the material is cold worked.

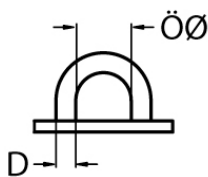
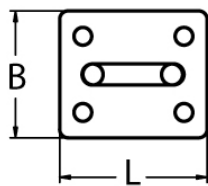
A2 / 304 Stainless Steel is one of the most highly corrosion-resistant materials available to the designer and engineer.

A2 304

Stainless steel

Eye Pad

Square

SEP

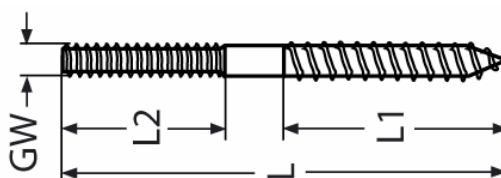
Diameter / D	L	B	Ø	Part Number	Std Pack
M5	35	30	14	SEPA2M5	10
M6	40	35	18	SEPA2M6	10
M8	50	40	20	SEPA2M8	5
M10	60	48	25	SEPA2M10	5

A4 316

Stainless steel

Double Thread Screw

Lag/Machine

DTS

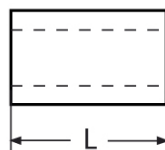
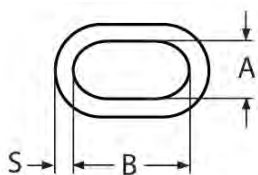
Diameter / GW	L	L1	L2	Part Number	Std Pack
M8	100	47	40	DTSA4M8X100	5
M10	60	37	20	DTSA4M10X60	5
M10	80	47	20	DTSA4M10X80	5
M10	100	57	30	DTSA4M10X100	5

NPS

Hand Swage

Nickel Plated Copper

Copper



Wire Rope Size	Length	Part Number	Std Pack
M1.5	7	NPSM15	100
M2	9	NPSM2	100
M2.5	11	NPSM25	100
M3.2	13	NPSM32	100
M4	14	NPSM4	20
M5	18	NPSM5	20
M6	21	NPSM6	20

NGR

Nylon Grommet

Split

Nylon

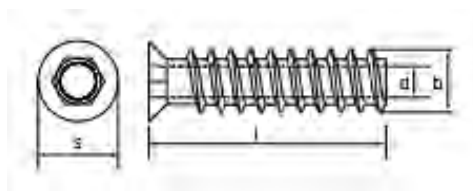


Type	Colour	Hole size	Cable range	Part Number	Std Pack
Nylon	Black	11/32"	3.2 - 5.0 mm	NGRBLA	200

A4 316

Stainless steel

Countersunk Timber Insert

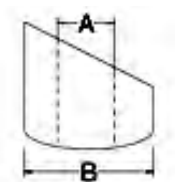
CTI

Size Ø d	b	l	s	Thread	Part Number	Std Pack
M6	10	30	12.5	Right	CTIA4M6	10
M6	10	30	12.5	Left	CTIA4M6L	10

A4 316

Stainless steel

Cable Pivot Washer

CPW

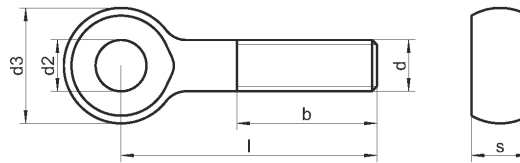
Size Ø	A	B	Part Number	Std Pack
M6	6.1	13	CPWA4M6	10
M8	8.2	13	CPWA4M8	10

MEB

Mini Eye Bolt

A4 316

Stainless steel



Diameter Ø	l	b	d2	d3	Part Number	Std Pack
M6	24	10	6	14	MEBA4M6X10	10
M6	38	25	6	14	MEBA4M6X25	10

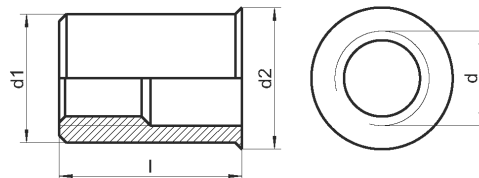
RNS

Rivet Nuts

A2 304

Small Flange

Stainless steel



Type	Thread	d1	d2	clamping range	l	Part Number	Std Pack
M5	Right	7.1	7.7	0.5 - 3.0 mm	11.8	RNSA2M5	100
M6	Right	9.5	10.5	0.7 - 3.3 mm	14.6	RNSA2M6	100
M8	Right	10.6	11.5	0.9 - 3.7 mm	16	RNSA2M8	100
M10	Right	14.2	15.3	1.0 - 3.6 mm	17	RNSA2M10	100

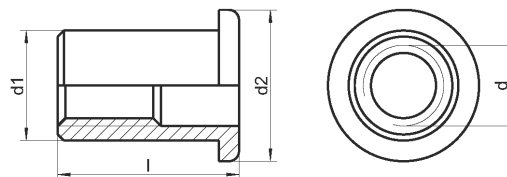
RNL

Rivet Nuts

A2 304

Large Flange

Stainless steel



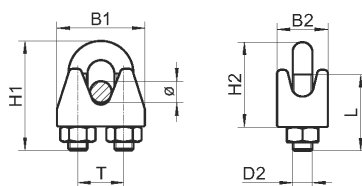
Type	Thread	d1	d2	clamping range	l	Part Number	Std Pack
M5	Right	6.9	10	3.0 - 5.5 mm	13.5	RNLA2M5	100
M6	Right	8.9	12	3.0 - 5.5 mm	16	RNLA2M6	100
M6	Left	8.9	12	3.0 - 5.5 mm	16	RNLA2M6L	100
M8	Right	10.9	15	3.0 - 5.5 mm	18.5	RNLA2M8	100

A4 316

Stainless steel

Wire Rope Grip

Clamp

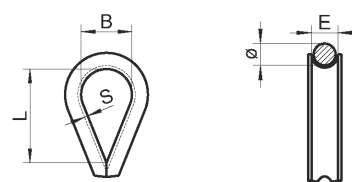
WRG

Wire rope	D2	H1	L	T	Part Number	Std Pack
2mm	M3	17	11	7	WRGA42MM	10
3mm	M3	21	11	8	WRGA43MM	10
4mm	M4	23	12	10	WRGA44MM	10
5mm	M5	26	15	12	WRGA45MM	10
6mm	M6	32	18	14	WRGA46MM	5
8mm	M6	35	18	16	WRGA48MM	5
10mm	M8	44	22	19	WRGA410MM	5
13mm	M10	55	30	25	WRGA413MM	2
16mm	M14	75	35	27	WRGA416MM	2
19mm	M14	80	53	32	WRGA419MM	2

A4 316

Stainless steel

Wire Rope Thimble

WRT

Wire rope	E	B	L	S	Part Number	Std Pack
2mm	2	7	10	1	WRTA4M2	100
2.5mm	2.5	8	14	1	WRTA4M25	100
3mm	3	10	17	1	WRTA4M3	100
4mm	4	11	18	1	WRTA4M4	50
5mm	5.6	13	20	1.2	WRTA4M5	20
6mm	6.5	15	25	1.2	WRTA4M6	20
8mm	9	18	33	1.5	WRTA4M8	10
10mm	11	23	41	2	WRTA4M10	10
12mm	14	27	48	2	WRTA4M12	5
14mm	15	34	53	2.5	WRTA4M14	5
16mm	17	36	57	3	WRTA4M16	5
18mm	19	40	67	3	WRTA4M18	5
20mm	22	45	75	4	WRTA4M20	5

EBO

Eye Bolt

With Nut And Washers

A2 304

Stainless steel



Diameter / Ø	Length mm	Eye mm	Part Number	Std Pack
M6	40	13	EBOA2M6X40	10
M6	60	13	EBOA2M6X60	10
M6	80	13	EBOA2M6X80	10
M6	100	13	EBOA2M6X100	10
M8	60	17	EBOA2M8X60	10
M8	80	17	EBOA2M8X80	10
M8	100	17	EBOA2M8X100	10
M8	130	17	EBOA2M8X130	10
M10	60	21	EBOA2M10X60	5
M10	80	21	EBOA2M10X80	5
M10	100	21	EBOA2M10X100	5
M10	120	21	EBOA2M10X120	5
M10	150	21	EBOA2M10X150	5
M12	80	25	EBOA2M12X80	5
M12	100	25	EBOA2M12X100	5
M12	120	25	EBOA2M12X120	5
M12	150	25	EBOA2M12X150	5

EBO

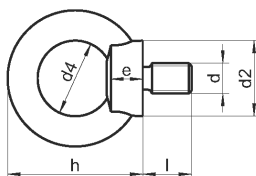
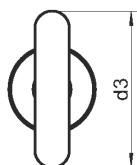
Eye Bolts

Collared

DIN 580

A4 316

Stainless steel



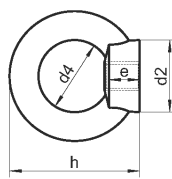
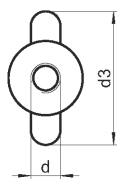
Diameter / Ø	d2	d3	d4	h	l	Part Number	Std Pack
M6	12	25.7	16	26	15	EBOA4M6	10
M8	15	31.5	20	30	18	EBOA4M8	5
M10	19	40	25	42	18	EBOA4M10	5
M12	23.5	48	30	52	22	EBOA4M12	2
M16	28	58	35	59	26	EBOA4M16	2
M20	33	70	35	71	30	EBOA4M20	1
M24	50	89	50	94	40	EBOA4M24	1

A4 316

Stainless steel

DIN 582

Eye Nut

LEN

Diameter / Ø	d2	d3	d4	h	e	Part Number	Std Pack
M6	20	36	20	36	8.5	LENA4M6	10
M8	20	36	20	36	8.5	LENA4M8	5
M10	25	45	25	45	10	LENA4M10	5
M12	30	54	30	53	11	LENA4M12	2
M16	35	63	35	63	13	LENA4M16	2
M20	40	72	40	71	16	LENA4M20	1
M24	50	85	50	84	19	LENA4M24	1

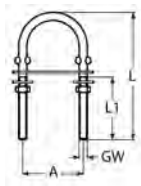
UBO

U Bolt

With Nuts, Washers And Plate

A2 304

Stainless steel



Size	A	L	L1	Part Number	Std Pack
M5	50	80	40	UB0A2M5X80	10
M6	50	90	40	UB0A2M6X90	10
M8	50	80	40	UB0A2M8X80	10
M8	50	100	50	UB0A2M8X100	10
M10	70	90	55	UB0A2M10X90	5
M10	70	130	55	UB0A2M10X130	5
M12	83	150	74	UB0A2M12X150	5

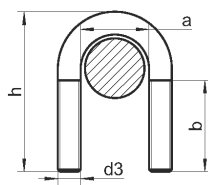
UBO

U Bolt

With Nuts (supplied with 2 nuts)

A4 316

Stainless steel

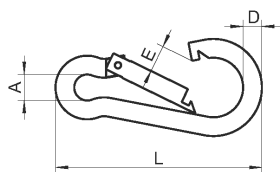


Diameter / Ø d3	h	h-d3	To suit NB	a	b	Part Number	Std Pack
M10	77	67	15	22	40	UB0A4M10X67	5
M10	88	78	20	27	50	UB0A4M10X75	5
M10	96	86	25	35	50	UB0A4M10X86	5
M10	104	94	32	43	50	UB0A4M10X94	5
M10	110	100	40	49	50	UB0A4M10X100	5
M10	121	111	50	60	50	UB0A4M10X111	5
M12	139	127	65	76	50	UB0A4M12X127	2
M12	152	140	80	89	50	UB0A4M12X140	2
M12	164	152	90	102	50	UB0A4M12X152	2
M12	177	165	100	114	50	UB0A4M12X165	2

A4 316

Stainless steel

Spring Hooks

SHO

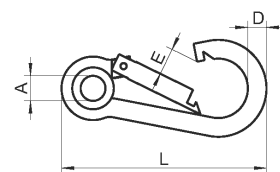
Diameter / D	L	A	E	Part Number	Std Pack
M3	30	5	6	SH0A4M3	10
M4	40	6.5	6	SH0A4M4	10
M5	50	8	7	SH0A4M5	10
M6	60	9	8	SH0A4M6	10
M7	70	10	9	SH0A4M7	10
M8	80	12	9	SH0A4M8	10
M10	100	15	12	SH0A4M10	5
M12	140	20	19	SH0A4M12	5

A4 316

Stainless steel

Spring Hooks

With Eye

SHE

Diameter / D	L	A	E	Part Number	Std Pack
M5	50	6.5	7	SHEA4M5	10
M6	60	7.5	8	SHEA4M6	10
M7	70	9	8	SHEA4M7	10
M8	80	10	9	SHEA4M8	10
M10	100	13	12	SHEA4M10	5
M12	140	18	19	SHEA4M12	5

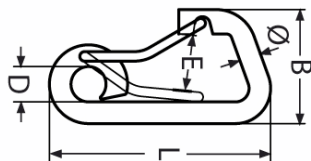
SH2

Snap Hook

Asymetric

A4 316

Stainless steel



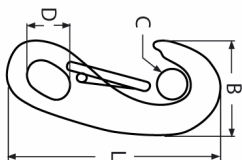
Diameter / Ø	D	B	L	E	Part Number	Std Pack
M6	7	35	61	10	SH2A4M6	10
M8	11	48	81	13	SH2A4M8	10
M10	13	58	102	15	SH2A4M10	5
M12	16	70	122	21	SH2A4M12	5

SSH

Spring Snap Hook Cast

A4 316

Stainless steel



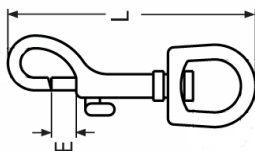
Length / L	B	C	D	Part Number	Std Pack
50	24	10	10.5	SSHA4M50	10
70	31	12	13	SSHA4M70	5
100	46	22	21	SSHA4M100	5

SSB

Swivel Snap Bolt

A2 304

Stainless steel

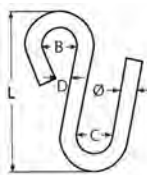


Size D	L	E	Part Number	Std Pack
10mm	65	7	SSBA210	10
13mm	90	11	SSBA213	10
16mm	92	12	SSBA216	5
19mm	94	12	SSBA219	5
25mm	101	16	SSBA225	5

A2 304

Stainless steel

S Hook

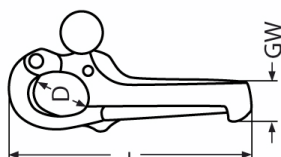
SH3

Size / Ø	L	B	C	D	Part Number	Std Pack
M5	52	9	9	3	SH3A2M5	10
M6	64	10	10	5	SH3A2M6	10
M8	75	16	17	5	SH3A2M8	10
M9	84	18	19	7	SH3A2M9	10

A4 316

Stainless steel

Pelican Hook

PH0

Diameter / GW	L	D	Grade A4 / 316	Pack Qty
M6	75	18.5	PH0A4M6	5
M8	100	27	PH0A4M8	5
M10	144	35	PH0A4M10	5

CSL

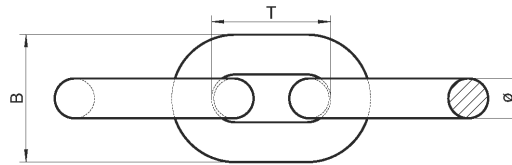
Chain

Short Link

DIN 766

A2 304

Stainless steel



Diameter / Ø	B	T	Weight kg/m	Length m	Part Number2	Std Pack
2	8	12	0.07	50	CSLA2M2	1
3	12	16	0.17	50	CSLA2M3	1
4	13.6	16	0.32	25	CSLA2M4	1
5	17	18.5	0.5	25	CSLA2M5	1
6	20.4	18.5	0.8	25	CSLA2M6	1
8	27.2	24	1.4	25	CSLA2M8	1

CSL

Chain

Short Link

DIN 766

A4 316

Stainless steel

Diameter / Ø	B	T	Breaking Load kN	Weight kg/m	Length m	Part Number2	Pack Quantity
2	8	12	1.25	0.07	50	CSLA2M2	1
3	12	16	2.8	0.17	50	CSLA2M3	1
4	13.6	16	8	0.32	25	CSLA2M4	1
5	17	18.5	12.5	0.5	25	CSLA2M5	1
6	20.4	18.5	16	0.8	25	CSLA2M6	1
8	27.2	24	32	1.4	25	CSLA2M8	1

Stainless Steel Properties

What Is A2-70 Stainless Steel?

DIN/ISO A2 Stainless Steel is a corrosion resistant steel; *it is also known as ASTM-304.*

A2 / ASTM-304 is an 18/8 Stainless Steel: this designates a metallurgical content of 18% chromium & 8% nickel.

A bolt marked A2-70 is a 304 stainless steel bolt with a 700 N/mm² tensile strength. The 70 representing the tensile strength divided by 10.

50 & 80 Grades are also available but are not all that common.

A2 / 304 Stainless Steel is what is known as an austenitic stainless steel: it is (mostly) non-magnetic though some residual magnetism can be introduced when the material is cold worked.

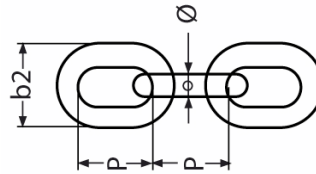
A2 / 304 Stainless Steel is one of the most highly corrosion-resistant materials available to the designer and engineer.

A4 316

Stainless steel

Chain

Medium Link

CML

Size Ø	b2	P	Length m	Part Number	Std Pack
M5	20	21	25	CMLA4M5	1
M6	24	24	25	CMLA4M6	1
M8	32	32	25	CMLA4M8	1
M10	40	40	10	CMLA4M10	1
M12	48	48	10	CMLA4M12	1

A4 316

Stainless steel

C Link

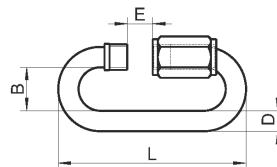
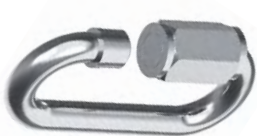
CLI

Size Ø	A	B	L	L1	Part Number	Std Pack
M5	8	17.5	20	30	CLIA4M5	10
M6	9	21	24	36	CLIA4M6	10
M8	12	28	32	48	CLIA4M8	5
M10	15	35	40	60	CLIA4M10	5
M12	18	42	48	72	CLIA4M12	2

A4 316

Stainless steel

Quick Link

QLI

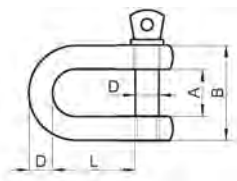
Diameter / D	L	B	E	Part Number	Std Pack
M4	32	12	5.5	QLIA4M4	10
M5	39	13	6.5	QLIA4M5	10
M6	45	14	7.5	QLIA4M6	10
M8	58	17	10	QLIA4M8	5
M10	69	21	12	QLIA4M10	5

DSH

D Shackle

A4 316

Stainless steel



Diameter / Ø D	A	B	L	Part Number	Std Pack
M4	8	16	14	DSHA4M4	10
M5	10	20	14.5	DSHA4M5	10
M6	12	24	21	DSHA4M6	10
M7	14	24	23.5	DSHA4M7	5
M8	16	32	28	DSHA4M8	5
M10	20	40	36	DSHA4M10	5
M12	24	48	44	DSHA4M12	2
M13	26	52	46.5	DSHA4M13	2
M16	32	64	56	DSHA4M16	2
M19	35	76	65.5	DSHA4M19	1
M22	44	88	74	DSHA4M22	1

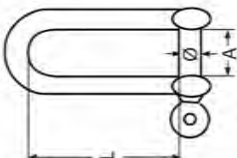
DSL

D Shackle

A4 316

Long

Stainless steel



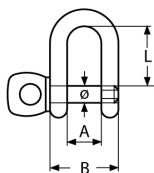
Diameter / Ø	A	L	Part Number	Std Pack
M4	8	32	DSLA4M4	10
M5	10	40	DSLA4M5	10
M6	12	48	DSLA4M6	10
M8	16	64	DSLA4M8	5
M10	20	80	DSLA4M10	5
M12	24	96	DSLA4M12	2

A4 316

Stainless steel

D Shackle

With Captive Pin

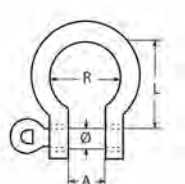
DSC

Diameter / Ø	A	B	L	Part Number	Std Pack
M4	9	18	15	DSCA4M4	10
M5	10	20	16.5	DSCA4M5	10
M6	12	24	21	DSCA4M6	10
M8	16	32	28	DSCA4M8	5
M10	20	40	34	DSCA4M10	5
M12	24	48	36	DSCA4M12	2

A4 316

Stainless steel

Bow Shackle

BSH

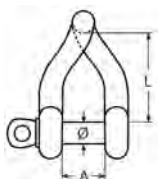
Diameter / Ø	A	R	L	Part Number	Std Pack
M4	8	13	20	BSHA4M4	10
M5	10.8	17	23	BSHA4M5	10
M6	13	21	31	BSHA4M6	10
M8	17.5	28	36.5	BSHA4M8	5
M10	21.5	35.5	44	BSHA4M10	5
M12	27	41	52.5	BSHA4M12	2
M16	32	54	73.5	BSHA4M16	2
M19	35.6	64.4	85	BSHA4M19	1
M22	41	74	94	BSHA4M22	1

TSH

Twist Shackle

A4 316

Stainless steel



Diameter / Ø	A	L	Part Number	Std Pack
M4	8	23	TSHA4M4	10
M5	10	27	TSHA4M5	10
M6	12	30	TSHA4M6	10
M8	16	42	TSHA4M8	5
M10	20	55	TSHA4M10	5

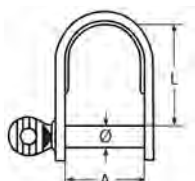
SSH

Strap Shackle

A2 304

Long

Stainless steel



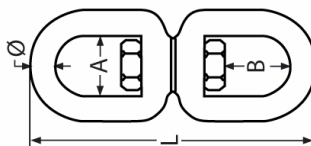
Diameter / Ø	A	L	Grade A2 / 304	Pack Qty
M5	12.5	20	SSHA2M5	10
M6	15	24	SSHA2M6	10
M8	18	44	SSHA2M8	10

A4 316

Stainless steel

Swivel

Eye / Eye

SEE

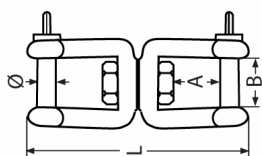
Diameter Ø	L	B	A	Part Number	Std Pack
M5	60	13	13	SEEA4M5	10
M6	65	15	15	SEEA4M6	10
M8	90	22	20	SEEA4M8	5
M10	110	26	23	SEEA4M10	5

A4 316

Stainless steel

Swivel

Jaw / Jaw

SJJ

Diameter / D	L	B	A	Part Number	Std Pack
M5	60	10	11	SJJA4M5	10
M6	66	12	11	SJJA4M6	10
M8	94	16	16	SJJA4M8	5
M10	118	20	22	SJJA4M10	5

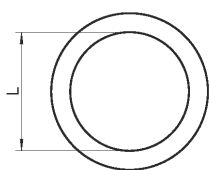
RRI

Round Rings

Welded

A4 316

Stainless steel



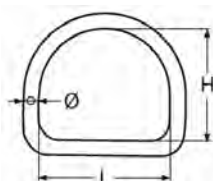
Diameter / D	L	Part Number	Std Pack
M3	25	RRIA4M3X25	20
M4	20	RRIA4M4X20	20
M4	30	RRIA4M4X30	20
M4	40	RRIA4M4X40	20
M5	20	RRIA4M5X20	10
M5	30	RRIA4M5X30	10
M5	40	RRIA4M5X40	10
M5	50	RRIA4M5X50	10
M6	25	RRIA4M6X25	10
M6	30	RRIA4M6X30	10
M6	40	RRIA4M6X40	10
M6	50	RRIA4M6X50	10
M8	40	RRIA4M8X40	5
M8	50	RRIA4M8X50	5
M8	65	RRIA4M8X65	5
M8	75	RRIA4M8X75	5
M10	40	RRIA4M10X40	5
M10	50	RRIA4M10X50	5
M10	75	RRIA4M10X75	5
M10	100	RRIA4M10X100	5
M12	75	RRIA4M12X75	5
M12	100	RRIA4M12X100	5

DRI

D Ring

A4 316

Stainless steel



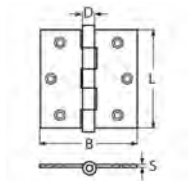
Diameter / Ø	L	H	Part Number	Std Pack
M3	25	23	DRIA4M3X25	20
M4	25	23	DRIA4M4X25	20
M5	25	23	DRIA4M5X25	10
M5	40	36	DRIA4M5X40	10
M5	50	47	DRIA4M5X50	10
M6	25	23	DRIA4M6X25	10
M6	30	26	DRIA4M6X30	10
M6	40	36	DRIA4M6X40	10
M6	50	47	DRIA4M6X50	10

A2 304

Stainless steel

Butt Hinge

With Screws (sold in pairs)

BHI

Size / B	L	D	S	Screw size	Part Number	Std Pack
75mm	100	10	2mm	8g	BHIA2100X75X2	1 pair
75mm	100	10	2.5mm	8g	BHIA2100X75X25	1 pair
75mm	100	10	3mm	8g	BHIA2100X75X3	1 pair
100mm	100	11	2mm	8g	BHIA2100X100X2	1 pair
100mm	100	11	2.5mm	8g	BHIA2100X100X25	1 pair
100mm	100	11	3mm	8g	BHIA2100X100X3	1 pair

A2 304

Stainless steel

Piano Hinge

Undrilled

PHI

Width B mm	L	S	Part Number	Std Pack
25	1800	1.2	PHIA2M25	1
32	1800	1.2	PHIA2M32	1
38	1800	1.2	PHIA2M38	1
50	1800	1.5	PHIA2M50	1

HCW

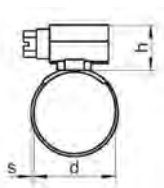
Hose Clamp

Worm Drive (9mm-12mm bands)

DIN 3017

A2 304

Stainless steel



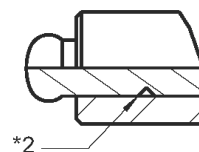
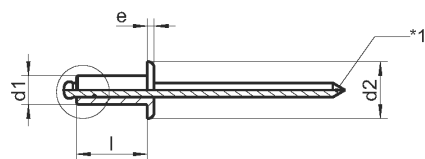
Universal Size	Diameter Range (d)	Band Width (b1)	b2 max	Part Number	Std Pack
000	10-16mm	9mm	14mm	HCWA2000	10
00	12-22mm	9mm	14mm	HCWA200	10
0	16-27mm	9mm	14mm	HCWA20	10
1A	20-32mm	9mm	14mm	HCWA21A	10
1	25-40mm	9mm	14mm	HCWA21	10
1X	30-45mm	9mm	14mm	HCWA21X	10
2A	35-50mm	9mm	14mm	HCWA22A	10
2	40-60mm	9mm	14mm	HCWA22	10
3	50-70mm	9mm	14mm	HCWA23	10
3A	60-80mm	12mm	20mm	HCWA23A	5
4	70-90mm	12mm	20mm	HCWA24	5
4A	80-100mm	12mm	20mm	HCWA24A	5
5	90-110mm	12mm	20mm	HCWA25	5
5A	100-120mm	12mm	20mm	HCWA25A	5
6	110-130mm	12mm	20mm	HCWA26	5
6A	120-140mm	12mm	20mm	HCWA26A	5

A2 304

Stainless steel

Blind Rivets

All Stainless Steel

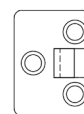
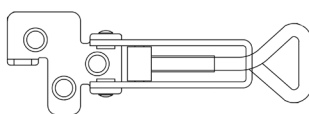
RIV

Type	d1	l	e	Grip Range mm	Drill Size	Part Number	Std Pack
4-2	3.2	6.5	1	1.6 - 3.2	3.3mm	RIVA242	1000
4-3	3.2	8	1	3.2 - 4.8	3.3mm	RIVA243	1000
4-4	3.2	9.5	1	4.8 - 6.4	3.3mm	RIVA244	1000
4-5	3.2	11	1	6.4 - 7.9	3.3mm	RIVA245	1000
4-6	3.2	12.5	1	7.9 - 9.5	3.3mm	RIVA246	1000
4-8	3.2	16	1	9.5 - 12.7	3.3mm	RIVA248	1000
5-2	4	7	1.2	< 3.2	4.1mm	RIVA252	1000
5-3	4	8.6	1.2	3.2 - 4.8	4.1mm	RIVA253	1000
5-4	4	10.2	1.2	4.8 - 6.4	4.1mm	RIVA254	1000
5-5	4	11.8	1.2	6.4 - 7.9	4.1mm	RIVA255	1000
5-6	4	13.3	1.2	6.4 - 9.5	4.1mm	RIVA256	1000
5-8	4	16.5	1.2	9.5 - 12.7	4.1mm	RIVA258	500
6-2	4.8	7.6	1.5	< 3.2	4.9mm	RIVA262	500
6-3	4.8	9.2	1.5	3.2 - 4.8	4.9mm	RIVA263	500
6-4	4.8	10.8	1.5	4.8 - 6.4	4.9mm	RIVA264	500
6-5	4.8	12.4	1.5	5.6 - 7.9	4.9mm	RIVA265	500
6-6	4.8	14	1.5	6.3 - 9.5	4.9mm	RIVA266	500
6-8	4.8	17.2	1.5	9.5 - 12.7	4.9mm	RIVA268	500
6-10	4.8	20.3	1.5	12.7 - 15.9	4.9mm	RIVA2610	500
6-12	4.8	23.5	1.5	15.9 - 19.1	4.9mm	RIVA2612	250

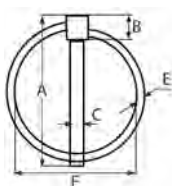
A2 304

Stainless steel

Toggle Latch

TLA

Size	l	a	b	c	d	f	Part Number	Std Pack
Small	78-87	24	33	18	14	24	TLAA2IW1	1
Large	110-120	22	30	25	20	35	TLAA2IW2	1



Size	A	B	C	E	F	Part Number	Std Pack
M4	49.6	7.5	4.4	2.4	39	LPIA2M4	20
M6	56.2	8	6	3.2	44.8	LPIA2M6	20
M8	56.5	8.4	7.4	3.1	44.9	LPIA2M8	10
M10	56.5	10.7	10.6	3.2	43.4	LPIA2M10	10

TECHNICAL INFORMATION

Common Fasteners



Hex bolts are used in machinery and construction. Can be used with a nut, or in a tapped hole. Fully threaded hex bolts are also known as **Set Screws/Bolts**.



Batten screws have large threads and a smooth shank for pulling two pieces of material together. They can be used in wood and other soft materials.



Sheet metal screws have sharp points and threads, and are designed to be driven directly into sheet metal. They can also be used in softer materials like plastic, fiberglass, or wood.



Machine screws are fully threaded for use with a nut or in a tapped hole. Can also be known as a **Metal Thread Screw**.



Socket screws are machine screws with an internal hex socket (Allen) drive. Longer lengths may have a shank.



Hex Coach Screws, are large wood screws with hex heads. Typically used for wood construction and landscaping.



Cup head Square neck bolts have smooth, domed heads with a square section underneath that pulls into the material to prevent spinning during installation.



Nuts are used to fasten machine threaded fasteners in through-hole applications. **Lock nuts** help prevent loosening.



Washers spread the load over a greater surface area when tightening a bolt, screw or nut. **Lock washers** help preventing loosening.

Drive Types



Phillips



Slotted



Pozidriv



Square



Combo



*Hex socket
(Allen)*



Torx

Phillips and **Slotted** drives are common in screws, but prone to cam-out (stripping).

Combo drives, that can be used with either driver, are available for many fastener types.

Posidriv are similar to Phillips, but less prone to cam-out.

Hex socket (Allen) drives are compact and easy to drive, but prone to cam-out.

Torx and **Square** drive are resistant to cam-out and can be installed single-handed,

Head Styles



Hex heads are typically used with larger bolt and screws.



Round heads are tall domed heads, used primarily for a decorative purposes.



Pan heads have a slightly domed head that sits above the surface.



Socket heads are narrow with a socket drive, and knurled or smooth sides.



Countersunk heads are installed in a countersunk hole for a flat surface.



Button heads feature a medium dome. Typically used with hex socket drive.

Thread Count And Thread Pitch

Machine threaded fasteners specify a thread density in **Threads Per Inch** (US) or as a **Thread Pitch** in mm(Metric).

For a given diameter, a fastener may be available in **coarse** (standard), **fine** and sometimes **super fine** thread.

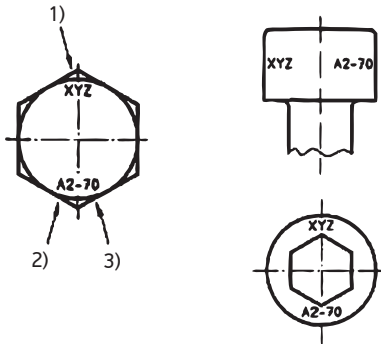
Thread guide

Size			Pitch (mm)		Threads Per Inch (TPI)		
			Coarse	Fine	UNC	UNF	BSW
M1.6		#0	0.35			80	
M2		#1	0.4			72	
		#2			56	64	
M2.5		#3	0.45		48	56	
		#4			40	48	
M3	1/8"	#5	0.5		40	44	40
M3.5		#6	0.6		32	40	
M4		#8	0.7		32	36	
M5	3/16"	#10	0.8		24	32	24
		#12			24	28	
M6	1/4"		1		20	28	20
M8	5/16"		1.25	1	18	24	18
M10	3/8"		1.5	1.25	16	24	16
	7/16"				14	20	14
M12	1/2"		1.75	1.5	13	20	12
M14	9/16"		2	1.5	12	18	12
M16	5/8"		2	1.5	11	18	11
M18			2.5	1.5			
M20	3/4"		2.5	1.5	10	16	10
M22	7/8"		2.5	1.5	3	14	9
M24	1"		3	2	8	12(14)	8
M27	1 1/8"		3	2	7	12	7
M30	1 1/4"		3.5	2	7	12	7
M33	1 3/8"		3.5	2	6	12	6
M36	1 1/2"		4	3	6	12	6
M39	1 5/8"		4	3			5
M42			4.5				
M45	1 3/4"		4.5		5		5
M48	1 7/8"		5				

Marking Of Stainless Steel Screws And Nuts

The marking of stainless screws and nuts must contain the steel group, strength class and manufacturer's sign.

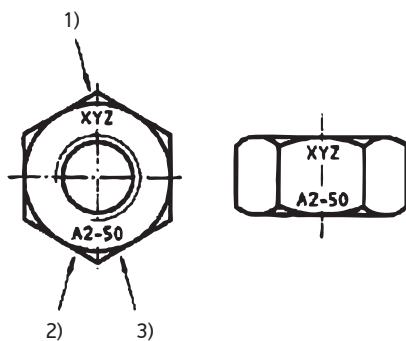
Marking of screws according to DIN ISO 3506-1



Hexagonal screws and socket cap screws with hexagonal socket as of an M5 nominal diameter should be clearly marked according the marking system. Where at all possible, the marking should be placed on the screw head.

- 1) Manufacturer's identification mark
- 2) Steel grade
- 3) Property class

Marking of screws according to DIN ISO 3506-2



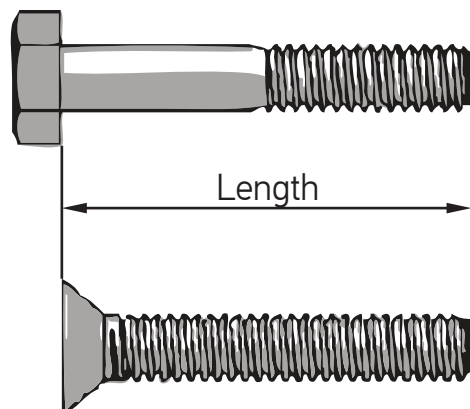
- 1) Manufacturer's identification mark
- 2) Steel grade
- 3) Property class

Nuts with a thread nominal diameter as of 5 mm should be clearly marked according the following marking system. Marking on just one bearing surface is permitted and may only be used if recessed, Marking on the spanner flats is also possible.

Measuring Fasteners

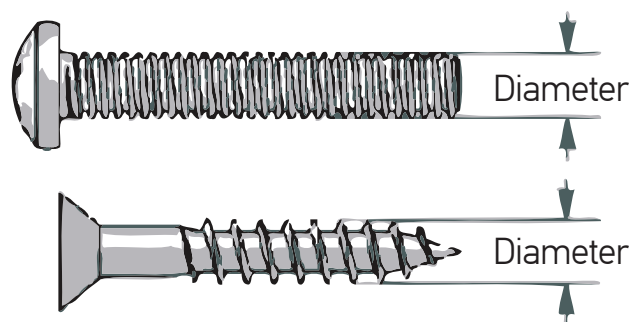
Fastener length is usually measured from where the material is to be to the end of the fastener.

Countersunk fasteners are measured overall and non-countersunk fasteners are measured from under the head.



Measuring Diameters

For most types of fasteners, the diameter is measured on the outside of the threads.



Nut And Washer Sizes

Nut and washer sizes indicate **the screw or bolt they fit**. For example:



3/8" Hex Bolt



3/8" Washer



3/8" Nut

Self Tapping & Self Drilling Gauge/mm Conversion

Self tapping & self drilling gauge to mm conversion chart

GAUGE	4	6	7	8	10	12	14	16	18	20
SIZE (MM)	2.9	3.5	3.9	4.2	4.8	5.5	6.3	7	7.7	8.4

Fastener Materials and Coatings

Alloy steel is highly hardened and usually black oxide and/or oil coated, offering little corrosion resistance.

Brass and **bronze** are copper alloys with good corrosion resistance. More expensive than steel, these materials are typically used for decorative applications.

Zinc Plated steel is shiny and typically 3 microns thick, where you only need superficial protection, indoors in a dry climate (and want the aesthetic value) go for zinc plating.

Chrome and **nickel plated steel** are smooth and polished for appearance. The plating offers moderate corrosion resistance.

Stainless steel offers good corrosion resistance, making it suitable for outdoor and marine applications.

Hot-dipped galvanised steel has a thicker zinc coating for better corrosion resistance, making it suitable for outdoor use. Because of the thick plating 50 microns, only galvanised nuts and washers will fit galvanised bolts.

Stainless Steel Properties

What Is A2-70 Stainless Steel?

DIN/ISO A2 Stainless Steel is a corrosion resistant steel; *it is also known as ASTM-304.*

A2 / ASTM-304 is an 18/8 Stainless Steel: this designates a metallurgical content of 18% chromium & 8% nickel.

A bolt marked A2-70 is a 304 stainless steel bolt with a 700 N/mm² tensile strength. The 70 representing the tensile strength divided by 10. 50 & 80 Grades are also available but are not all that common.

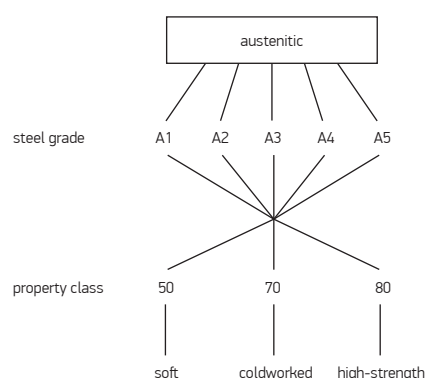
A2 / 304 Stainless Steel is what is known as an austenitic stainless steel: it is (mostly) non-magnetic though some residual magnetism can be introduced when the material is cold worked.

A2 / 304 Stainless Steel is one of the most highly corrosion-resistant materials available to the designer and engineer.

Grading of Stainless Steel Fasteners

Labelling system for grades of stainless steels and their strength classes

Stainless steels divide into three groups of steels — austenitic, ferritic and martensitic. Austenitic steel is by far the commonest and offers the greatest scope for use. The steel groups and strength classes are designated by a four-digit sequence of letters and numbers as shown in the following example. DIN EN ISO 3506 governs screws and nuts made from stainless steel.



Example: A2 - 80

A = austenitic steel
 2 = type of alloy within group A
 80 = tensile strength of at least 800 N/mm²,
 cold work hardened

Common stainless steels and their chemical composition

	Material designation	Material no.	C %	Si ≤%	Mn ≤%	Cr %	Mo %	Ni %	Altri %
A2	X 5 Cr Ni 1810	1.4301	≤0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5	-
	X 2 Cr Ni 1811	1.4306	≤0.03	1.0	2.0	18.9 to 20.0	-	10.0 to 12.0	-
	X 8 Cr Ni 19/10	1.4303	≤0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0	-
A3	X 6 Cr Ni Ti 1811	1.4541	≤0.10	1.0	2.0	17.0 to 19.0	-	9.0 to 12.0	Ti ≥ 5 X % C
A4	X 5 Cr Ni Mo 1712	1.4401	≤0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
	X 5 Cr Ni Mo 1712	1.4401	≤0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
A5	X 6 Cr Ni Mo Ti 1712	1.4541	≤0.10	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.5 to 13.5	Ti ≥ 5 X % C

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