



PRECISION FASTENERS GLOBAL RELIABILITY

Shanghai Malaxy Industry Co., Ltd.



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Website



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Wechat



MALAXY



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Certifications

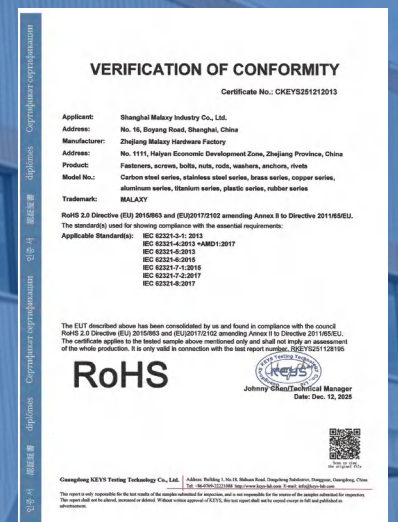
MALAXY holds a comprehensive range of authoritative certifications that underscore our global quality commitment for industrial fasteners; we are ISO 9001:2015 certified to guarantee strict quality control throughout raw material sourcing, production and final inspection, while our products fully comply with CE, RoHS, REACH and ETA standards, and meet internationally recognized ASTM and DIN specifications. These certifications are far more than formal documents, they represent our consistent adherence to global safety, environmental and quality benchmarks, providing reliable confidence to wholesalers, contractors, distributors and industrial partners across North America, South America, Europe and worldwide markets.



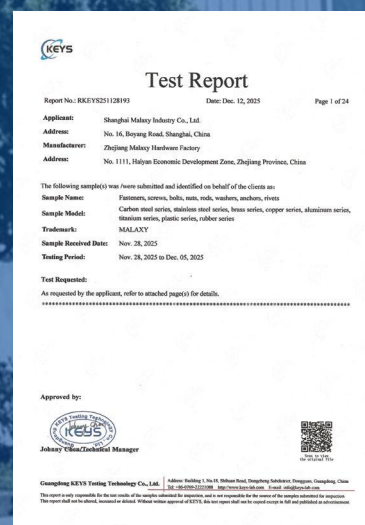
ISO 9001:2015



CE



RoHS



REACH



EPR-FRANCE



TRADE MARK



n1

ABOUT US



Company Introduction

Malaxy Development History

Environmental Social & Governance

Certifications



Malaxy Development History (2001–2026)



Zhejiang Malaxy Hardware Factory founded, specializing in screws and custom stamping parts for East China coastal clients.

2001

2005

Proudly installed Haiyan County's largest punch press at the time, elevating production precision and capacity.

2006

Recognized for our advanced production facilities and stringent quality control, we established a strategic partnership with a leading Japanese enterprise, commencing long-term OEM collaboration.

2008

Entered global markets via Chinese trading companies, marking the start of Malaxy's international footprint.

2013

Installed a fully automated packaging line, enabling customized packaging solutions tailored to client requirements.

2021

Established Shanghai Malaxy Industry Co., Ltd., securing self-export rights and direct global sales.

2024

Exported over 23,000 tons of fasteners to 85+ countries. Trusted Since 2001-Decades of innovation, precision, and global partnerships power our commitment to quality.



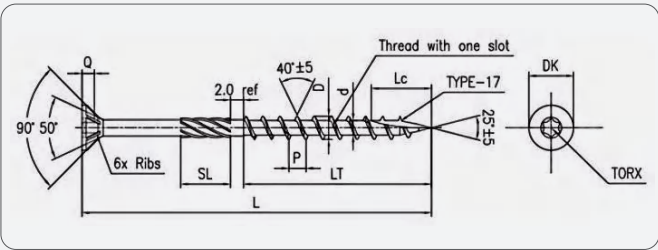
Contact Us



PRODUCT PORTFOLIO



Torx flat head wood screws

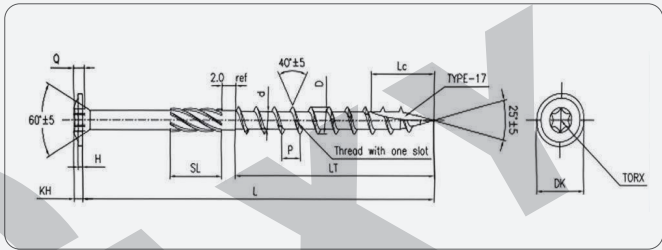


Sheet 1								
SIZE	DK	Q	TORX	D	d	P±10%	SL	LC
3.0	5.6-6.0	1.10-1.40	T10	2.8-3.1	1.7-1.9	1.45	Ref 4	5.0-6.0
3.5	6.6-7.0	1.30-1.60	T15	3.3-3.6	1.9-2.2	2.20	Ref 5	6.0-7.0
4.0	7.5-8.0	1.70-2.00	T20	3.8-4.1	2.2-2.5	2.60	Ref 5	7.0-8.0
4.5	8.5-9.0	1.70-2.00	T25	4.2-4.6	2.6-3.0	2.80	Ref 6	8.0-9.0
5.0	9.5-10.0	2.00-2.40	T25	4.7-5.1	2.7-3.1	3.20	Ref 8	10.0-12.0
6.0	11.5-12.0	2.40-2.85	T30	5.8-6.2	3.6-4.0	4.50	Ref 12	12.0-14.0
8.0	14.3-15.2	3.00-3.45	T40	7.8-8.3	5.1-5.5	5.50	Ref 12	14.0-16.0
10.0	17.4-18.2	3.45-3.85	T40	9.7-10.3	6.0-5.5	6.60	Ref 12	16.0-18.0

Sheet 2															
3.0		3.5		4.0		4.5		5.0		6.0		8.0		10.0	
L	LT	L	LT	L	LT	L	LT	L	LT	L	LT	L	LT	L	LT
16	Full	16	Full	16	Full	25	Full	25	Full	40	25	80	50	80	50
20	Full	20	Full	20	Full	30	15	30	15	50	25	90	50	90	50
25	Full	25	Full	25	Full	35	15	35	15	60	35	100	50	100	50
30	15	30	15	30	15	40	25	40	25	70	35	110	50	110	50
35	15	35	15	35	15	45	25	45	25	80	50	120-360	80	120-360	80
40	25	40	25	40	25	50	25	50	25	90	50				
45	25	45	25	45	25	60	35	60	35	100	50				
		50	25	50	25	70	35	70	35	110	50				
				55	35	80	35	80	35	120-360	80				
				60	35			90	50						
				70	35			100	50						
								120	50						
L		L≤50		50<L≤80		80<L≤120		L>120							
Tolerance		-1.25		-1.5		-1.75		-2							



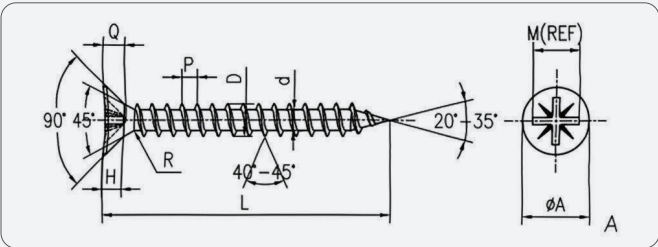
Torx Wafer head wood screws



Sheet 1									
SIZE	DK	Q	TORX	KH	H	D	d	P±10%	LC
5.0	11.5-13.2	2.10-2.55	T25	2.50-3.30	1.05-1.35	4.70-5.10	2.70-3.10	3.20	10.0-12.0
6.0	14.5-16.1	2.40-2.85	T30	2.70-3.50	1.35-1.65	5.80-6.20	3.65-4.00	4.50	12.0-14.0
8.0	20.5-22.5	3.00-3.45	T40	3.35-3.75	1.65-2.15	7.80-8.20	5.10-5.50	5.50	14.0-16.0
10.0	23.5-26.5	3.40-3.85	T40	3.80-4.20	1.95-2.35	9.60-10.25	6.00-6.50	6.60	16.0-18.0

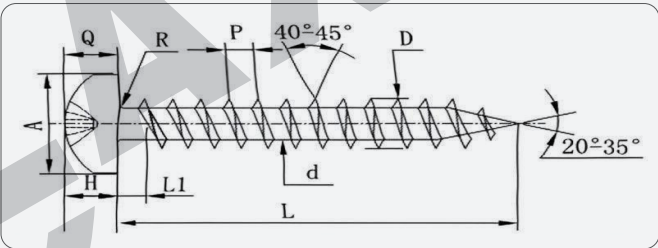
Sheet 2														
5.0			6.0			8.0			10.0					
L	LT	SL	L	LT	SL	L	LT	SL	L	LT	SL	L	Tolerance	
25	Full	8	50	30	6	80	50	12	80	50	12	L≤50	-1.25	
30	15	8	60	35	6	100	50	12	100	50	12	50<L≤80	-1.5	
35	15	8	70	35	6	120-360	80	12	120-360	80	12	80<L≤120	-1.5	
40	25	8	80	50	10							L>120	-2	
45	25	8	100	50	12									
50	25	8	120-300	80	12									
60	35	8												
70	35	8												
80	35	8												
90	50	8												
100	50	8												
120	50	8												

Pozi drive countersunk chipboard screws



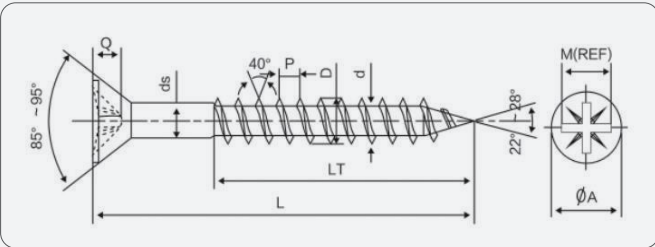
1、Materials:C1022A 2、Case Hardness:Hv 550-800 3、Core hardness:Hv 300-500 4、Bending Angle:15°					Thread length L: up to 60mm=fully 70mm=42mm T.L±1.0 80mm=48mm T.L±1.0 90mm=54mm T.L±1.0 100mm=60mm T.L±1.0 Over 100mm=72mm T.L±2.0							Nominal length L: 01-10mm incl.+0/0.75 11-30mm incl.0/-0.90 31-50mm incl.+0/-1.10 51-80mm incl.+0/-1.50 91-120mm incl.+0/-1.75 121-200mm incl.+0/-2.00					
SIZE	A		H	L1	Q		M	Drive	R	D		d		P	Wire Dia	Case Depth	Torsion Min(N*m)
	Min	Max	Ref.	Max	Min	Max	Ref.	NO	Max	Min	Max	Min	Max	Ref.	+0/-0.02	Mm	
2.5	4.70	5.05	1.40	2.10	1.22	1.57	2.51	1	1.5	2.30	2.50	1.40	1.60	1.10	1.80	0.05-0.10	1.1
3.0	5.70	6.05	1.80	2.35	1.60	2.11	3.00	1	1.5	2.80	3.00	1.75	1.90	1.35	2.10	0,08-0,18	1.5
3.5	6.64	7.05	2.00	2.60	1.76	2.16	4.00	2	1.8	3.25	3.50	2.00	2.25	1.60	2.45	0,08-0,18	2.0
4.0	7.64	8.05	2.35	2.80	2.05	2.51	4.40	2	2.0	4.00	4.00	2.30	2.50	1.80	2.78	0,12-0,23	3.0
4.5	8.64	9.05	2.55	3.00	2.46	3.02	4.80	2	2.2	4.50	4.50	2.50	2.70	2.00	3.10	0,12-0,23	4.3
5.0	9.64	10.05	2.85	3.20	2.99	3.55	5.30	2	2.5	5.00	5.00	2.90	3.10	2.20	3.45	0,12-0,23	6.0
6.0	11.57	12.05	3.35	3.60	2.99	3.55	6.60	3	2.5	6.00	6.00	3.60	3.80	2.60	4.20	0,15-0,28	10.8

Pozi drive Raised Countersunk Chipboard Screws Self Tapping



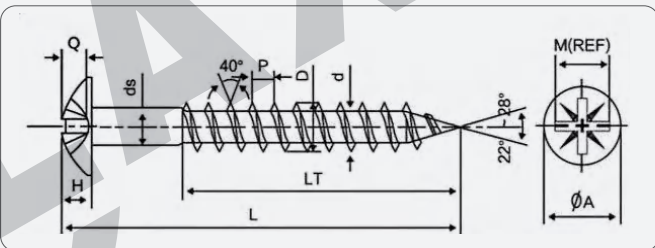
1、Materials:C1022A 2、Case Hardness:Hv 550-800 3、Core hardness:Hv 300-500 4、Bending Angle:15°						Thread length L: up to 60mm=fully 70mm=42mm T.L±1.0 80mm=48mm T.L±1.0 90mm=54mm T.L±1.0 100mm=60mm T.L±1.0 Over 100mm=72mm T.L±2.0						Nominal length L: 01-10mm incl.+0/-0.75 11-30mm incl.+0/-0.90 31-50mm incl.+0/-1.10 51-80mm incl.+0/-1.50 91-120mm incl.+0/-1.75 121-200mm incl.+0/-2.00						
SIZE	A		H		L1	Q		M	Drive	R	D		d		P	Wire Dia	Case Depth	Torsion
	Min	Max	Min	Max	Max	Min	Max	Ref.	NO	Max	Min	Max	Min	Max	Ref.	+0/-0.02	Mm	Min(N*mm)
2.5	4.6	5.00	1.88	2.12	1.10	1.30	1.52	2.60	1	0.25	2.30	2.50	1.40	1.60	1.10	1.80	0.05-0.10	1.00
3.0	5.6	6.00	2.13	2.37	1.35	1.75	1.93	3.12	1	0.25	2.80	3.00	1.75	1.90	1.35	2.10	0.08-0.18	1.50
3.5	6.5	7.00	2.48	2.72	1.60	1.70	2.11	3.81	2	0.30	3.25	2.50	2.00	2.25	1.60	2.45	0.08-0.18	2.00
4.0	7.5	8.00	2.68	2.92	1.80	1.95	2.36	4.65	2	0.30	3.75	4.00	2.30	2.50	1.80	2.78	0.120.23	3.00
4.5	8.5	9.00	2.82	3.15	2.00	2.69	3.10	5.00	2	0.30	4.25	4.50	2.50	2.70	2.00	3.10	0.12-0.23	4.30
5.0	9.5	10.00	3.35	3.65	2.20	2.69	3.10	5.28	2	0.30	4.75	5.00	2.90	3.10	2.20	3.45	0.12-0.23	6.00
6.0	11.4	12.00	3.95	4.25	2.60	2.99	3.48	6.63	3	0.40	5.75	6.00	3.60	3.80	2.60	4.20	0.15-0.28	10.80

Pozidriv Countersunk Flat Head Wood Screw with Twinfast Double Lead Threads



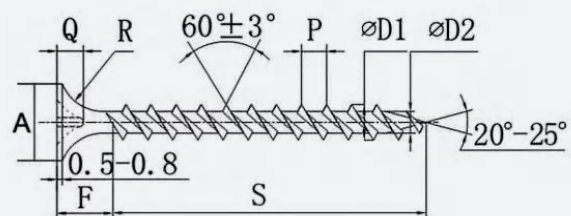
1.Material:C1022A 2.Case Hardness:470-720 HV0.3 3.Core Hardness:300-420 HV0.3 4.Case Depth:#4-#6:0.05-0.18mm #8-#12:0.10-0.23mm #14:0.13-0.28mm						Thread length LT(±1 pitch): up to 1-1/4"=fully 1-1/2"to 1-3/4"=30 2"to 2-1/4"=37 2-1/2"to 3"=50 3-1/2"=67 Over 4"=70						Nominal Length L: 01-10mm incl.+0/-0.75 11-30mm incl.+0/-0.90 31-50mm incl.+0/-1.10 51-80mm incl.+0/-1.50 81-120mm incl.+0/-1.75 121-200mm incl.+0/-2.00			
SIZE	A		H		Q		M	Drive	D		d	P	ds	Torsion Min(N*m)	
	Min	Max	Ref.	Max	Min	Max	Ref.	NO.	Min	Max	±0.3	Ref.	Wire Dia		
#4-2.9	5.21	5.49	1.85	2.05	1.32	1.73	2.74	1	2.72	2.92	1.65	1.10	2.15-2.25	1.50	
#5-3.2	5.89	6.20	2.08	2.28	1.14	1.80	3.50	2	3.05	3.25	1.88	1.27	2.35-2.40	1.50	
#6-3.5	6.55	6.91	2.28	2.54	1.85	2.31	4.22	2	3.38	3.58	2.16	1.41	2.60-2.70	2.80	
#7-3.9	7.24	7.62	2.51	2.76	1.85	2.31	4.22	2	3.74	3.94	2.41	1.59	2.80-2.90	3.80	
#8-4.2	7.93	8.33	2.72	2.99	2.26	2.72	4.60	2	4.09	4.29	2.77	1.69	3.20-3.30	4.20	
#10-4.8	9.27	9.75	3.17	3.45	2.64	3.10	4.98	2	4.73	4.93	3.15	1.95	3.65-3.75	6.20	
#12-5.5	10.62	11.18	3.61	3.91	2.72	3.18	6.35	3	5.38	5.64	3.61	2.21	4.20-4.30	9.40	
#14-6.3	11.99	12.60	4.04	4.34	3.00	3.45	6.60	3	6.17	6.45	4.19	2.54	4.95-5.05	10.80	

Pozi Drive Round Head Wood Screw with Twifast Double-Lead Thread



1.Material:C1022A 2.Case Hardness:470-720 HV0.3 3.Core Hardness:300-420 HV0.3 4.Case Depth:#4-#6:0.05-0.18mm #8-#12:0.10-0.23mm #14:0.13-0.28mm						Thread length LT(±1 pitch): up to 1-1/4"=fully 1-1/2"to 1-3/4"=30 2"to 2-1/4"=37 2-1/2"to 3"=50 3-1/2"=67 Over 4"=70					Nominal Length L: 01-10mm incl.+0/-0.75 11-30mm incl.+0/-0.90 31-50mm incl.+0/-1.10 51-80mm incl.+0/-1.50 81-120mm incl.+0/-1.75 121-200mm incl.+0/-2.00			
SIZE	A		H		Q		M	Drive	D		d	P	ds	Torsion Min(N*m)
	Min	Max	Ref.	Max	Min	Max	Ref.	NO.	Min	Max	±0.3	Ref.	Wire Dia	
#4-2.9	5.21	5.49	1.85	2.05	1.27	1.72	2.90	1	2.72	2.72	1.65	1.10	2.15-2.25	1.50
#5-3.2	5.89	6.20	2.08	2.28	1.42	1.82	3.70	2	3.05	3.05	1.88	1.27	2.35-2.40	1.50
#6-3.5	6.55	6.91	2.28	2.54	1.47	1.93	3.91	2	3.38	3.38	2.16	1.41	2.60-2.70	2.80
#7-3.9	7.24	7.62	2.51	2.76	1.70	2.16	4.11	2	3.74	3.74	2.41	1.59	2.80-2.90	3.80
#8-4.2	7.93	8.33	2.72	2.99	1.85	2.31	4.26	2	4.09	4.09	2.77	1.69	3.20-3.30	4.20
#10-4.8	9.27	9.75	3.17	3.45	2.26	2.72	4.67	2	4.73	4.73	3.15	1.95	3.65-3.75	6.20
#12-5.5	10.62	11.18	3.61	3.91	2.41	2.87	6.14	3	5.38	5.38	3.61	2.21	4.20-4.30	9.40
#14-6.3	11.99	12.60	4.04	4.34	3.05	3.50	6.75	3	6.17	6.17	4.19	2.54	4.95-5.05	10.80

Coarse Thread Drywall Screw with Phillips Bugle Head

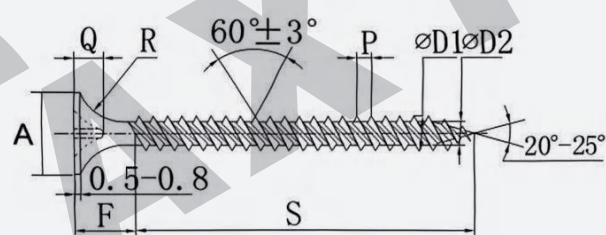


- 1.Material:C1022A
- 2.Case hardness:Hv 550-800
- 3.Core Hardness:Hv 300-500
- 4.Bending Angle:≥15°
- 5.L≤50 full,L>50,S≥45

Nominal Length L:
13-19mm incl.+0/-0.50
25-30mm incl.+0/-0.80
32-50mm incl.+0/-1.50
55-90mm incl.+0/-1.50
100-152mm incl.+0/-2.50

SIZE	Wire Dia (ref.)	D1		D2		A		Q		W	F		P		R		Torsion Min(N*m)
		Min	Max	Min	Max	Min	Max	Min	Max		Min	Max	MM	TPI	Min	Max	
3.5	2.65	3.65	3.90	2.25	2.45	7.9	8.5	2.64	3.0	Ph2	5.0	6.5	2.8	9	4.5	5.0	2.2
3.9	2.90	3.90	4.20	2.35	2.50	7.9	8.5	2.64	3.0	Ph2	5.0	6.5	2.8	9	4.5	5.0	3.0
4.2	3.20	4.30	4.60	2.80	3.00	7.9	8.5	2.64	3.0	Ph2	5.0	6.5	2.8	9	4.5	5.0	3.7
4.8	3.70	4.90	4.90	3.20	3.50	8.5	9.4	2.87	3.3	Ph2	5.0	6.5	3.1	8	4.5	5.0	5.8

Phillips Bugle Head Drywall Screw Twinfast Thread



- 1.Material:C1022A
- 2.Case hardness:Hv 550-800
- 3.Core Hardness:Hv 300-500
- 4.Bending Angle:≥15°
- 5.L≤50 full,L>50,S≥45

Nominal Length L:
13-19mm incl.+0/-0.50
25-30mm incl.+0/-0.80
32-50mm incl.+0/-1.50
55-90mm incl.+0/-1.50
100-152mm incl.+0/-2.50

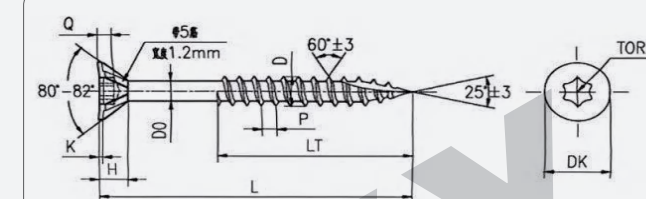
SIZE	Wire Dia (ref.)	D1		D2		A		Q		W	F		P		R		Torsion Min(N*m)
		Min	Max	Min	Max	Min	Max	Min	Max		Min	Max	MM	TPI	Min	Max	
3.5	2.65	3.40	3.60	2.27	2.42	7.9	8.5	2.64	3.0	PH2	5.0	6.5	1.4	17	4.5	5.0	2.2
3.9	2.90	3.70	3.90	2.40	2.60	7.9	8.5	2.64	3.0	PH2	5.0	6.5	1.6	16	4.5	5.0	3.0
4.2	3.20	4.05	4.30	2.80	3.00	7.9	8.5	2.64	3.0	PH2	5.0	6.5	1.7	15	4.5	5.0	3.7
4.8	3.70	4.70	4.90	3.20	3.40	8.5	9.4	2.87	3.0	PH2	5.0	6.5	2.1	12	4.5	5.0	5.8



Contact Us

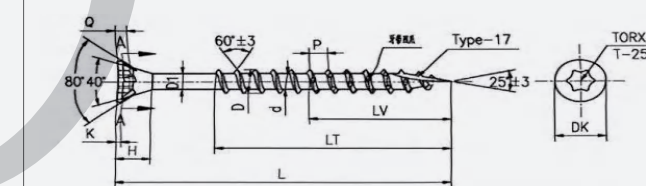


Deck Screw,Star Drive Flat Head W/5 Nibs T-17



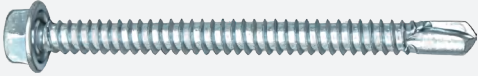
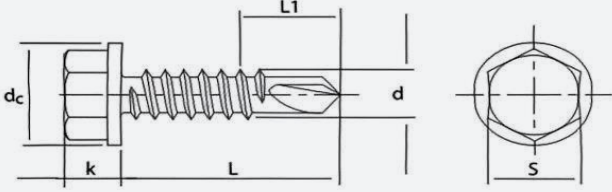
SIZE	DK	H	K	Q	TORX	DO	D	P	L	LT	Torque
#8x1-1/4"	7.6-8.2	3.2-4.1	0.8-1	1.5-1.8	T-20	3.2	4.35-4.7	9	30.5-33	14.75-16.75	4.6
#8x1-5/8"	7.6-8.2	3.2-4.1	0.8-1	1.5-1.8	T-20	3.2	4.35-4.7	9	40.05-42.55	20.28-22.28	4.6
#8x2"	7.6-8.2	3.2-4.1	0.8-1	1.5-1.8	T-20	3.2	4.35-4.7	9	49.3-52.3	27.8-29.8	4.6
#9x2-1/2"	8.2-8.8	3.4-4.3	0.8-1	1.9-2.2	T-25	3.5	4.6-5	9	62-65	34.5-36.5	5.6
#9x3"	8.2-8.8	3.4-4.3	0.8-1	1.9-2.2	T-25	3.5	4.6-5	9	74.7-77.7	35.2-37.2	5.6
#10x3-1/2"	8.8-9.4	3.65-4.55	0.8-1	1.9-2.2	T-25	3.8	4.9-5.3	8	87.15-90.65	47.4-50.4	6.6

Deck Screw,Star Drive Double Flat Head W/6 Nibs Auger Threads T-17

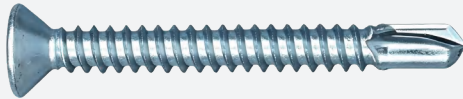
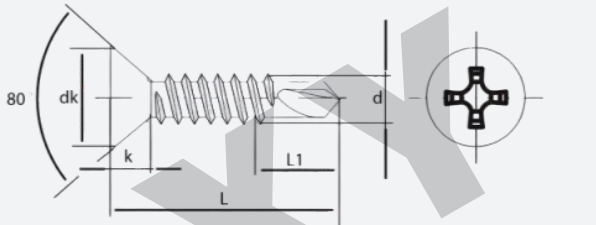


SIZE	DK	H	K	Q	D1	D	d	P	L	LT	LV
#8x1-1/4"	7.87-8.38	4.5-6	0.51-0.79	≥1.27	3.02-3.12	4-4.45	≥2.69	8	31.75-33	21.17-22	14.3-15.55
#8x1-5/8"	7.87-8.38	4.5-6	0.51-0.79	≥1.27	3.02-3.12	4-4.45	≥2.69	8	41.28-42.55	27.52-28.37	14.3-15.55
#8x2"	7.87-8.38	4.5-6	0.51-0.79	≥1.27	3.02-3.12	4-4.45	≥2.69	8	50.8-52.3	33.86-34.86	19-20.25
#10x2-1/2"	8.76-9.27	4.5-6	0.51-0.79	≥1.27	3.63-3.76	5-5.16	≥3.4	9	63.5-65	42.33-43.33	19-20.25
#10x3"	8.76-9.27	4.5-6	0.51-0.79	≥1.27	3.63-3.76	5-5.16	≥3.4	9	76.2-77.7	50.8-51.8	19-20.25
#10x3-1/2"	8.76-9.27	4.5-6	0.51-0.79	≥1.27	3.63-3.76	5-5.16	≥3.4	9	88.9-90.65	59.27-60.43	19-20.25
#10x4"	8.76-9.27	4.5-6	0.51-0.79	≥1.27	3.63-3.76	5-5.16	≥3.4	9	101.6-103.35	68-70	19-20.25

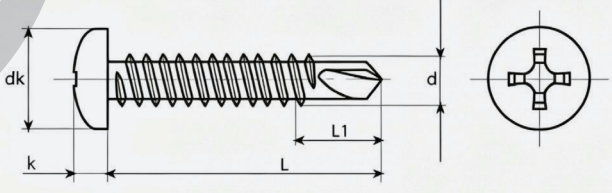
Hexagon washer Head Self-drilling screws

 CE ISO 9001 ROHS REACH					
d	ST3.5	ST4.2	ST4.8	ST5.5	ST6.3
P	1	1.4	1.6	1.8	1.8
dc	8.3	8.8	10.5	1	13.2
k(max)	3.45	4.25	4.45	5.45	6.45
s	5.5	7	8	8	10
L1	6	7	9	11	12
No.ISO	6#	8#	10#	12#	14#

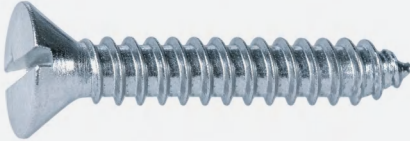
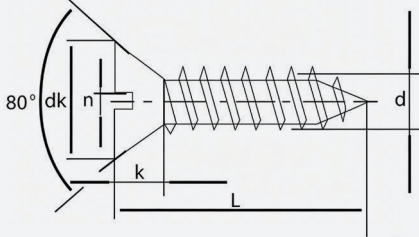
Phillips flat head self-drilling screws

 CE ISO 9001 ROHS REACH					
d	ST3.5	ST3.9	ST4.2	ST4.8	ST5.5
P=PITCH	1.3	1.3	1.4	1.6	1.8
dK	6.8	7.5	8.1	8.1	10.8
L1	5	6	7	7	10
No.Phillips(H)	2	2	2	2	3
No.ISO	6#	7#	8#	8#	12#

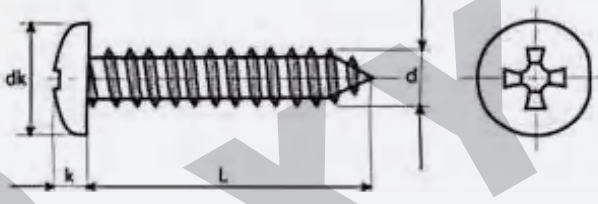
Phillips pan head self-drilling screws

 CE ISO 9001 ROHS REACH					
d	ST2.9	ST3.5	ST3.9	ST4.2	ST4.8
P=PITCH	1.1	1.3	1.3	1.4	1.6
dK	5.6	6.9	7.5	8.2	9.5
K	2.2	2.6	2.8	3.05	3.55
L1	4.5	5	6	7	8
No.Phillips(H)	1	2	2	2	2
No.ISO	4#	6#	7#	8#	10#

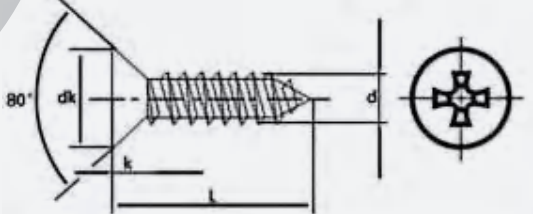
Slotted countersunk head tapping screws

 CE ISO 9001 ROHS REACH							
d	ST2.9	ST3.5	ST3.9	ST4.2	ST4.8	ST5.5	ST6.3
P	1.1	1.3	1.3	1.4	1.6	1.8	1.8
dk	5.5	6.8	7.5	8.1	9.5	10.8	12.4
k	1.7	2.1	2.3	2.5	3	3.4	3.8
N	0.8	1	1	1.2	1.2	1.6	1.6
No.ISO	4#	6#	7#	8#	10#	12#	14#

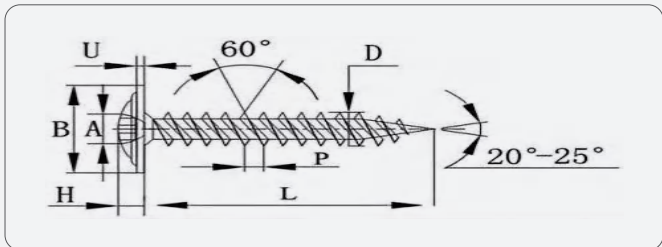
Slotted countersunk head tapping screws

 CE ISO 9001 ROHS REACH							
d	ST2.9	ST3.5	ST3.9	ST4.2	ST4.8	ST5.5	ST6.3
p	1.1	1.3	1.3	1.4	1.6	1.8	1.8
dk	5.6	6.9	7.5	8.2	9.5	10.8	12.5
k	2.2	2.6	2.8	3.05	3.55	3.95	4.55
No.Phillips(H)	1	2	2	2	2	3	3
No.ISO	4#	6#	7#	8#	10#	12#	14#

Cross recessed flat countersunk head tapping screws

 CE ISO 9001 ROHS REACH							
d	ST2.9	ST3.5	ST3.9	ST4.2	ST4.8	ST5.5	ST6.3
p	1.1	1.3	1.3	1.4	1.6	1.8	1.8
dk	5.6	6.9	7.5	8.2	9.5	10.8	12.5
k	2.2	2.6	2.8	3.05	3.55	3.95	4.55
No.Phillips(H)	1	2	2	2	2	3	3
No.ISO	4#	6#	7#	8#	10#	12#	14#

Modified Truss Head Self Tapping Screws, Twinfast Thread

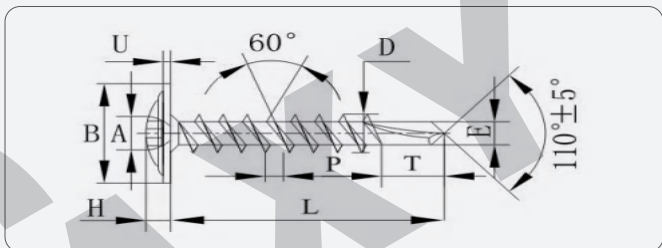
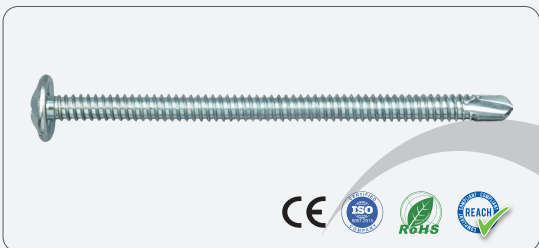


1. Case Depth: 0.10-2.23mm
2. Case Hardness: Hv 550-700
3. Core hardness: Hv 320-420

Nominal Length L:
10-19mm incl. +0/-0.76
19-38mm incl. +0/-1.27
41-76mm incl. +0/-1.52

SIZE	A	B	U	H	D	P	Torque Min(N*m)
#8-15 (4,2-1,7)	#2Phil	10.60	1.20	2.40	4.22	Ref.	3.7
		10.20	0.80	2.00	4.05	1.70	

Modified Truss Head Self Drilling Screw



1. Case Depth: 0.10-2.23mm
2. Case Hardness: Hv 550-700
3. Core hardness: Hv 320-420

Nominal Length L:
10-19mm incl. +0/-0.76
19-38mm incl. +0/-1.27
41-76mm incl. +0/-1.52

SIZE	A	B	U	H	D	P	T	E	Torque Min(N*m)
#8-15 (4,2-1,7)	#2Phil	10.60	1.20	2.40	4.22	Ref.	5.80	3.45	4.2
		10.20	0.80	2.00	4.05	1.41	4.45	3.35	

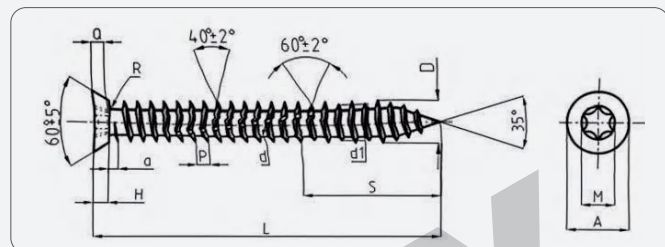
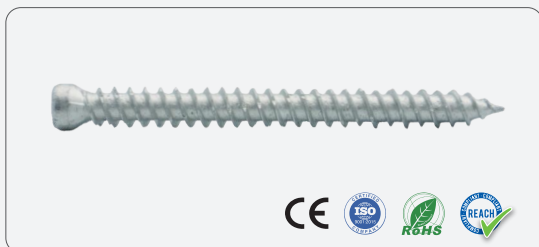


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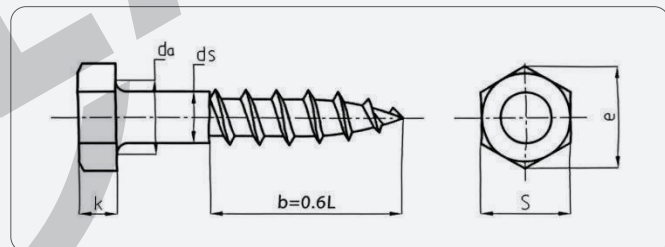
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Torx Flat Head, Concrete Screws, Hi-low Thread



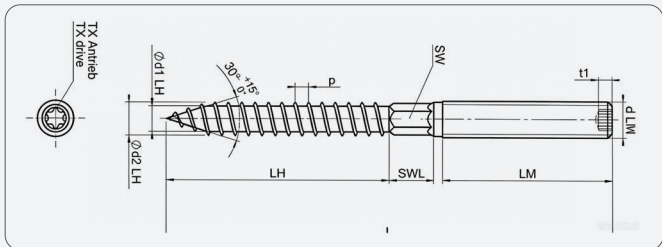
SIZE	Head Hi	Head Hi	a	R	Recess Width	Recess Depth	Drive	Major Dia		Major Dia	pitch	Torq.
	A	H Max	max	max	M	Q	Size	D	d1	d	p	N.M
7.5	10.5	2.75	7.5	1.5	5.8	2	T30	7.2	6.5	5.1	2.4	16min
	11.2					2.3		7.5		5.5	2.8	

Hexagon head wood Screws (Coach Screws)



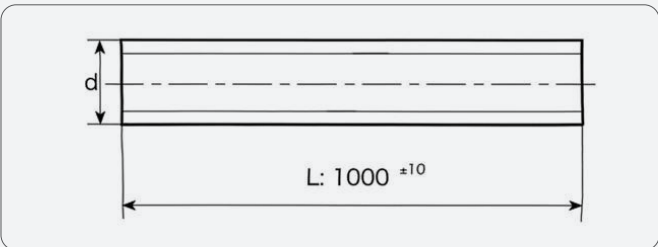
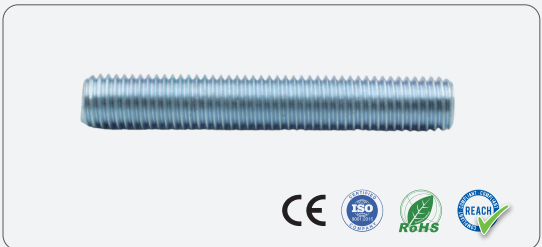
Thread size		4	5	6	(7)	8	10	12	16	20
ds	max.=nominal size	4	5	6	(7)	8	10	12	16	20
	min	3.52	4.52	5.52	6.42	7.42	9.42	11.3	15.3	19.3
da	max	5	6	7.2	8.2	10.2	12.2	15.2	19.2	24.4
	Nominal size	2.8	3.5	4	5	5.5	7	8	10	13
k	max	3.1	3.88	4.38	5.38	5.88	7.45	8.45	10.45	13.9
	min	2.5	3.13	3.63	4.63	5.13	6.55	7.55	9.55	12.1
s	max	7	8	10	12	13	17	19	24	30
	Nominal size	7	8	10	12	13	17	19	24	30
e	min	6.64	7.64	9.64	11.57	12.57	16.57	18.48	23.16	29.16
	min	7.5	8.63	10.89	13.07	14.2	18.72	20.88	26.17	32.95

Hanger Bolts



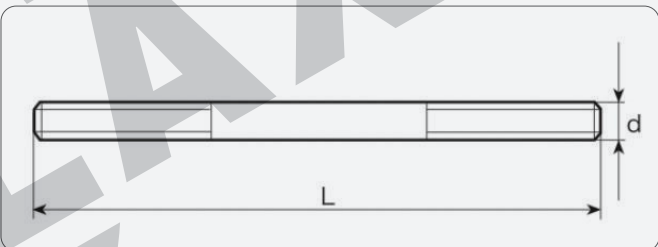
DIA	Length	metric/L	wood/L	wood outter	wood core	wood pitch	SW	SW/L	TORX
M4	20	+/-2.0	10 +/-1.5	10 +/-1.5	4.2+/-0.15	3.45	1.8+/-0.3	w/o	w/o
M4	25	+/-2.0	10 +/-1.5	10 +/-1.5	4.2+/-0.15	3.45	1.8+/-0.3	w/o	w/o
M4	30	+/-2.0	10 +/-1.5	15 +/-1.5	4.2+/-0.15	3.45	1.8+/-0.3	w/o	w/o
M4	35	+/-2.0	15 +/-1.5	15 +/-1.5	4.2+/-0.15	3.45	1.8+/-0.3	w/o	w/o
M4	40	+/-2.0	17 +/-1.5	20 +/-1.5	4.2+/-0.15	3.45	1.8+/-0.3	w/o	w/o
M5	25	+/-2.0	10 +/-1.5	15 +/-1.5	5.35+/-0.15	4.35	2.2+/-0.3	w/o	w/o
M5	40	+/-2.0	15 +/-1.5	20 +/-1.5	5.35+/-0.15	4.35	2.2+/-0.3	w/o	w/o
M5	50	+/-2.0	20 +/-1.5	20 +/-1.5	5.35+/-0.15	4.35	2.2+/-0.3	w/o	w/o
M6	40	+/-2.0	17 +/-1.5	23 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M6	50	+/-2.0	20 +/-1.5	30 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M6	60	+/-2.0	20 +/-1.5	30 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M6	70	+/-2.0	30 +/-1.5	30 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M6	80	+/-2.0	30 +/-1.5	30 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M6	90	+/-2.0	30 +/-1.5	30 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M6	120	+/-2.0	30 +/-1.5	30 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M6	150	+/-2.0	30 +/-1.5	30 +/-1.5	6+/-0.15	4.7	2.6+/-0.3	w/o	T152+/-0.15
M8	50	+/-1.25	15 +/-2.0	30 +/-1.5	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	w/o	T253.0+/-0.3
M8	60	+/-1.5	20 +/-2.0	30 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	8+1-2 T253.0+/-0.3
M8	70	+/-1.5	25 +/-2.0	30 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+/-0.3
M8	80	+/-1.5	30 +/-2.0	40 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+/-0.3
M8	90	+/-1.75	30 +/-2.0	40 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+/-0.3
M8	100	+/-1.75	40 +/-2.0	40 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+/-0.3
M8	110	+/-1.75	40 +/-2.0	50 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+/-0.3
M8	120	+/-1.75	50 +/-2.0	50 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+/-0.3
M8	130	+/-2.0	50 +/-2.0	50 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+/-0.3
M8	140	+/-2.0	50 +/-2.0	50 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+0.1-0.5
M8	150	+/-2.0	50 +/-2.0	50 +/-1.25	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+0.1-0.5
M8	160	+/-2.0	50 +/-2.0	50 +/-1.5	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+0.1-0.5
M8	180	+/-2.0	50 +/-2.0	50 +/-1.5	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+0.1-0.5
M8	200	+/-2.0	50 +/-2.0	50 +/-1.5	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+0.1-0.5
M8	220	+/-2.0	50 +/-2.0	50 +/-1.5	7.3+/-0.15	5.4+/-0.15	3.0+/-0.3	6-0.15	10+/-2 T253.0+0.1-0.5
M10	60	+/-1.5	18 +/-3.0	30 +/-1.25	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	8+/-2 T253.0+/-0.3
M10	70	+/-1.5	28 +/-3.0	30 +/-1.25	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.16	8+1-2 T253.0+/-0.4
M10	80	+/-1.5	30 +/-3.0	40 +/-1.25	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+/-0.5
M10	90	+/-1.75	30 +/-3.0	50 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+/-0.6
M10	100	+/-1.75	30 +/-3.0	50 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+/-0.7
M10	110	+/-1.75	40 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+/-0.8
M10	120	+/-1.75	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+/-0.9
M10	130	+/-2.0	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+0.1-0.5
M10	140	+/-2.0	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+0.1-0.6
M10	150	+/-2.0	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+0.1-0.7
M10	160	+/-2.0	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+0.1-0.8
M10	180	+/-2.0	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+0.1-0.9
M10	200	+/-2.3	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+0.1-0.10
M10	220	+/-2.3	50 +/-3.0	60 +/-1.5	8.9+/-0.15	7+/-0.15	3.0+/-0.3	8-0.15	10+/-2 T253.0+0.1-0.10
M12	100	+/-1.75	30 +/-3.0	60 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+/-0.3
M12	120	+/-1.75	40 +/-3.0	60 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+/-0.3
M12	140	+/-2.0	60 +/-3.0	60 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+0.1-0.5
M12	160	+/-2.0	60 +/-3.0	60 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+0.1-0.5
M12	180	+/-2.0	60 +/-3.0	60 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+0.1-0.5
M12	200	+/-2.3	60 +/-3.0	60 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+0.1-0.5
M12	250	+/-3.0	100 +/-3.0	80 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+0.1-0.5
M12	300	+/-4.0	100 +/-3.0	100 +/-1.5	11+/-0.15	8.7+/-0.15	4.2+/-0.3	10-0.15	10+/-2 T303.0+0.1-0.5

Threaded rods — Length 1 meter (DIN 975)



d	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
P	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2	2,5	2,5
d	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52
P	2,5	3	3	3,5	3,5	4	4	4,5	4,5	5	5

Threaded studs — double ends

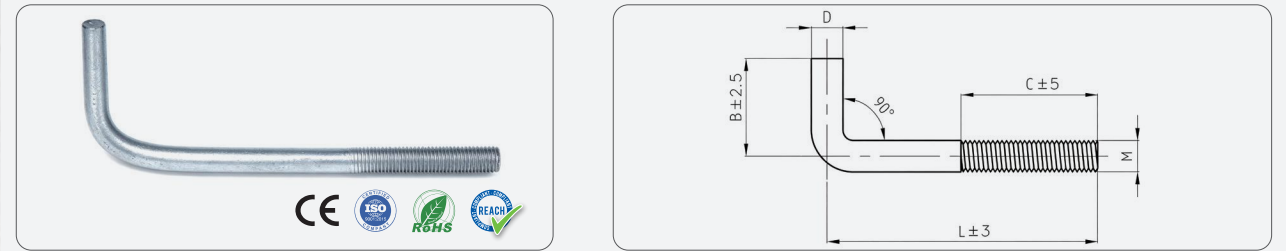


d	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
P	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2	2,5	2,5
d	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52
P	2,5	3	3	3,5	3,5	4	4	4,5	4,5	5	5



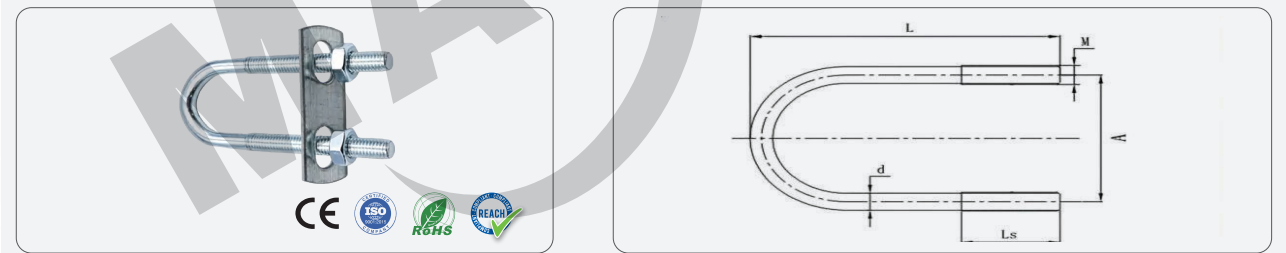
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L-Bolts



SIZE	L			B			C			D		
M12X300X50	300	300	300	300	300	300	300	300	300	300	300	300
M12X300X100	300	300	300	300	300	300	300	300	300	300	300	300
M16X400X50	400	400	400	400	400	400	400	400	400	400	400	400
M16X400X100	400	400	400	400	400	400	400	400	400	400	400	400
M20X500X50	500	500	500	500	500	500	500	500	500	500	500	500
M20X500X100	500	500	500	500	500	500	500	500	500	500	500	500
M24X600X50	600	600	600	600	600	600	600	600	600	600	600	600
M24X600X100	600	600	600	600	600	600	600	600	600	600	600	600
M27X700X50	700	700	700	700	700	700	700	700	700	700	700	700
M27X700X100	700	700	700	700	700	700	700	700	700	700	700	700
M30X700X50	700	700	700	700	700	700	700	700	700	700	700	700
M30X700X100	700	700	700	700	700	700	700	700	700	700	700	700
M33X800X50	800	800	800	800	800	800	800	800	800	800	800	800
M33X800X100	800	800	800	800	800	800	800	800	800	800	800	800

U-Bolts



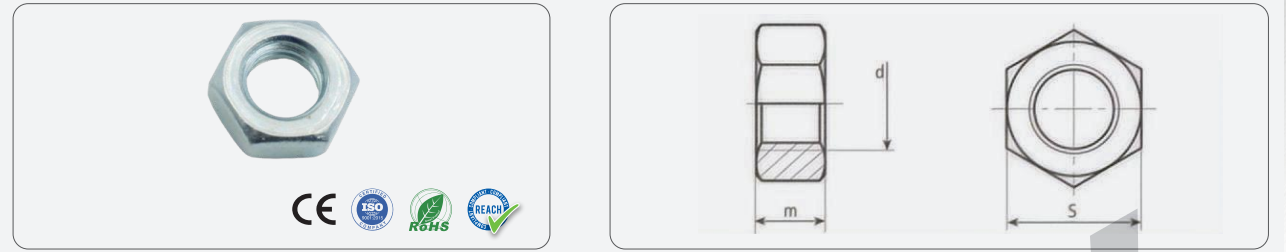
SIZE	a			L			Ls			d(min)		
	mm			mm			mm			mm		
M16X400	100	±	1	400	±	2	150	+	3	14.4	±	0.1
M20X350	100	±	1	350	±	2	150	+	3	18.1	±	0.1
M20X500	100	±	1	500	±	2	150	+	3	18.1	±	0.1
M24X350	150	±	1	350	±	2	150	+	3	21.7	±	0.1



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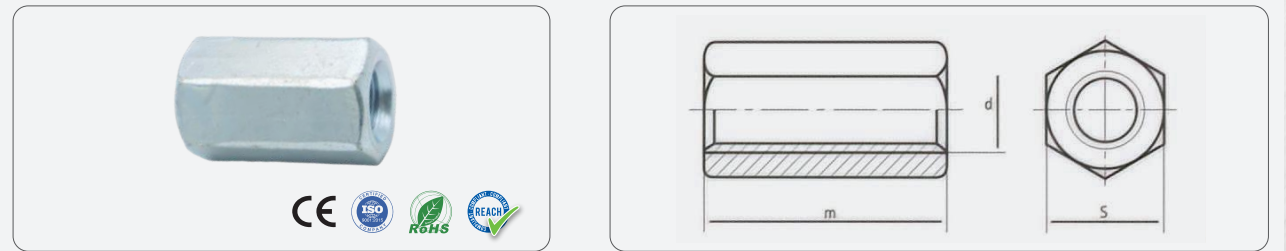


Hexagon nuts



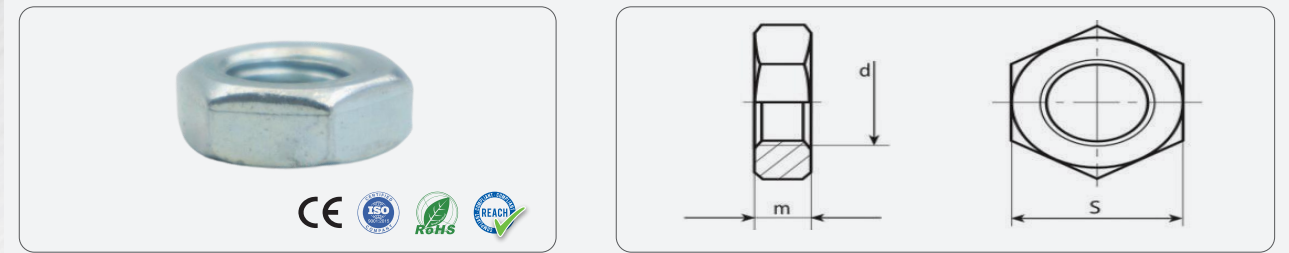
d	M3	M4	M5	M6	M7	M8	M10	M12	M14
P	0,5	0,7	0,8	1	1	1,25	1,5	1,75	2
m	2,4	3,2	4	5	5,5	6,5	8	10	11
s	5,5	7	8	10	11	13	17/16*	19/18*	22/21*
d	M16	M18	M20	M22	M24	M27	M30	M33	M36
P	2	2,5	2,5	2,5	3	3	3,5	3,5	4
m	13	15	16	18	19	22	24	26	29
s	24	27	30	32/34*	36	41	46	50	55
d	M39	M42	M45	M48	M52	M56	M60	M64	M68
P	4	4,5	4,5	5	5	5,5	5,5	6	6
m	31	34	36	38	42	45	48	51	54
s	60	65	70	75	80	85	90	95	100
d	M72	M76	M80	M90	M100	M110			
P	6	6	6	6	6	6			
m	58	61	64	72	80	88			
s	105	110	115	130	145	155			

Hexagon nuts



d	M5	M6	M8	M10	M12	M14	M16	M20	M24
P	0,8	1	1,25	1,5	1,75	2	2	2,5	3
m	15	18	24	30	36	42	48	60	72
S	8	10	13	17	19	22	24	30	36

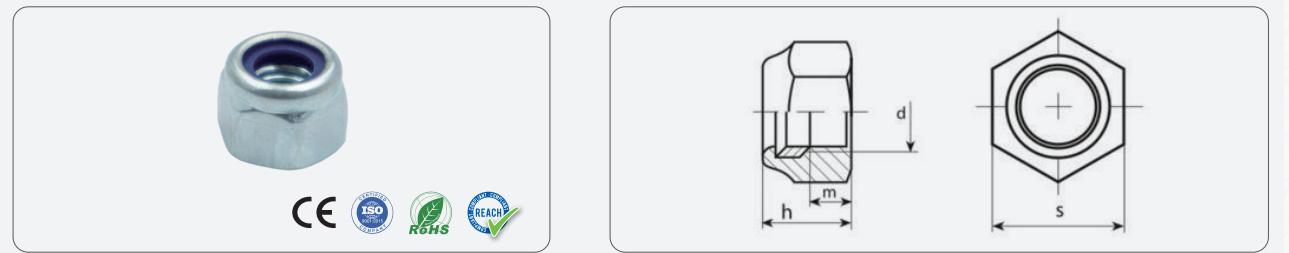
Hexagon thin nuts

	
d	M8 M8×1 M10 M10×1 M10×1.25 M12
p	1.25 1 1.5 1 1.25 1.75
m(nom.)	5 5 6 6 6 7
s(nom.)	13 13 17/16* 17/16* 17/16* 19/18*
d	M12x1,25 M12x1,5 M14 M14x1,5 M16 M16x1,5
p	1,25 1,5 2 1,5 2 1,5
m(nom.)	7 7 8 8 8 8
s(nom.)	19/18* 19/18* 22/21* 22/21* 24 24
d	M18 M18x1,5 M18x2 M20 M20x1,5 M20x2
p	2,5 1,5 2 2,5 1,5 2
m(nom.)	9 9 9 9 9 9
s(nom.)	27 27 27 30 30 30
d	M22 M22x1,5 M22x2 M24 M24x1,5 M24x2
p	2,5 1,5 2 3 1,5 2
m(nom.)	10 10 10 10 10 10
s(nom.)	32/34* 32/34* 32/34* 36 36 36

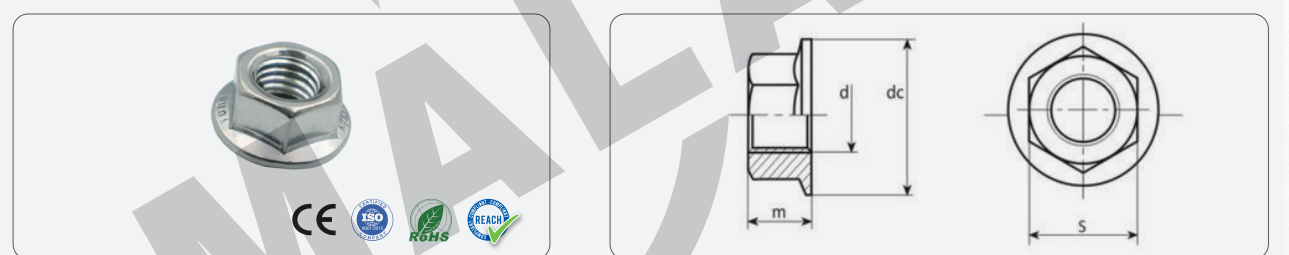
Prevailing torque type hexagon nuts with nylon insert — High type

	
d	M5 M6 M8 M10 M12 M14 M16 M18 M20 M22 M24
p	0,8 1 1,25 1,5 1,75 2 2 2,5 2,5 2,5 3
s	8 10 13 17/16* 19/18* 22/21* 24 27 30 32/34* 36
h	6,3 8 9,5 11,5 14 16 18 20 22 25 28

Prevailing torque type hexagon nuts with nylon insert

	
d	M3 M4 M5 M6 M7 M8 M10 M12 M14 M16 M18
p	0,5 0,7 0,8 1 1 1,25 1,5 1,75 2 2 2,5
s	5,5 7 8 10 11 13 17/16* 19/18* 22/21* 24 27
h	4 5 5 6 7,5 8 10 12 14 16 18,5
d	M20 M22 M24 M27 M30 M33 M36 M39 M42 M45 M48
p	2,5 2,5 3 3 3,5 3,5 4 4 4,5 4,5 5
s	30 32/34* 36 41 46 50 55 60 65 70 75
h	20 22 24 27 30 33 36 39 42 45 48

Hexagon flange nuts

	
d	M5 M6 M8 M10 M12 M14 M16 M20
p	0,8 1 1,25 1,5 1,75 2 2 2,5
m	5 6 8 10 12 14 16 20
s	8 10 13 15 18 21 24 30
dc	11,8 14,2 17,9 21,8 26 29,9 34,5 42,8



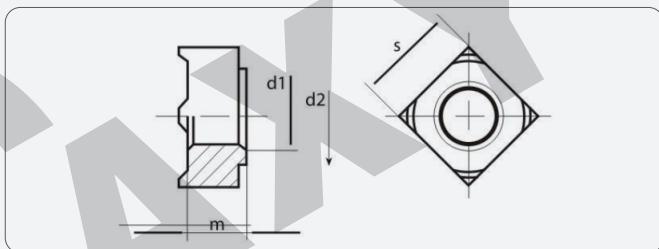
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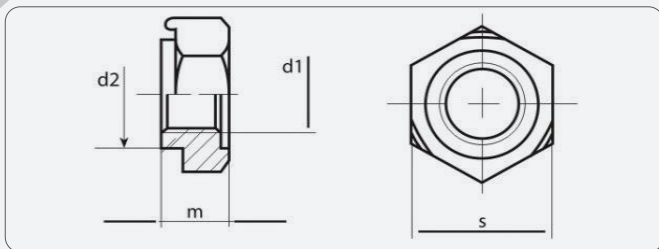
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Square weld nuts



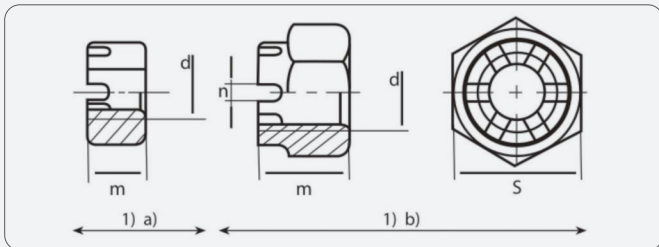
d1	M4	M5	M6	M8	M10	M12	M14	M16
p	0,7	0,8	1	1,25	1,5	1,75	2	2
m (h14)	3,5	4,2	5	6,5	8	9,5	11	13
s (h14)	7	9	10	14	17	19	22	24
d2	6	7	8	10,5	12,5	14,8	16,8	18,8

Hexagon weld nuts



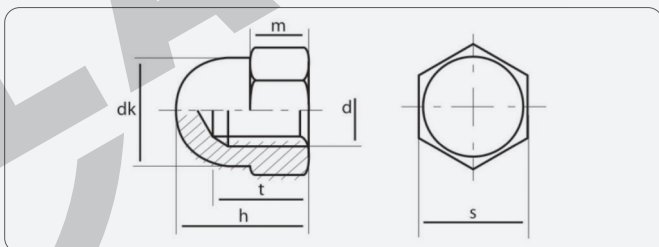
d1	M3	M4	M5	M6	M8	M10	M12	M14	M16
p	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2
m (h14)	3	3,5	4	5	6,5	8	10	11	13
s (h13)	7,5	9	10	11	14	17	19	22	24
d2	4,5	6	7	8	10,5	12,5	14,8	16,8	18,8

Hexagon castle nuts



d	M4	M5	M6	M7	M8	M10	M12	M14
p	0,7	0,8	1	1	1,25	1,5	1,75	2
m	5	6	7,5	8	9,5	12	15	16
s	7	8	10	11	13	17/16*	19/18*	22/21*
n	1,2	1,4	2	2	2,5	2,8	3,5	3,5
d	M16	M18	M20	M22	M24	M27	M30	M33
p	2	2,5	2,5	2,5	3	3	3,5	3,5
m	19	21	22	26	27	30	33	35
s	24	27	30	32/34*	36	41	46	50
n	4,5	4,5	4,5	5,5	5,5	5,5	7	7
d	M36	M39	M42	M45	M48	M52	M56	M60
p	4	4	4,5	4,5	5	5	5,5	5,5
m	38	40	46	48	50	54	57	63
s	55	60	65	70	75	80	85	90
n	7	7	9	9	9	9	9	1

Hexagon domed cap nuts, high type



d	M4	M5	M6	M8	M10	M12
p	0,7	0,8	1	1,25	1,50	1,75
m(max)	3,2	4	5	6,5	8	10
s	7	8	10	13	17/16*	19/18*
h	8	10	12	15	18	22
dk (max)	6,5	7,5	9,5	12,5	16	18
t	5,5	7,5	8	11	13	16
d	M14	M16	M18	M20	M22	M24
p	2	2	2,5	2,5	2,5	3
m(max)	11	13	15	16	18	19
s	22/21*	24	27	30	32/34*	36
h	25	28	32	34	39	42
dk (max)	21	23	26	28	31	34
t	18	21	25	26	29	31

Wing nuts — Rounded wings

d	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24
p	0,7	0,8	1	1,25	1,5	1,75	2	2	2,5	3
m (min)	3,2	4	5	6,5	8	10	11,2	13	16	20
e (max)	20	26	33	39	51	65	65	73	90	110
h (max)	10,5	13	17	20	25	33,5	33,5	37,5	46,5	56,5

Tee nuts

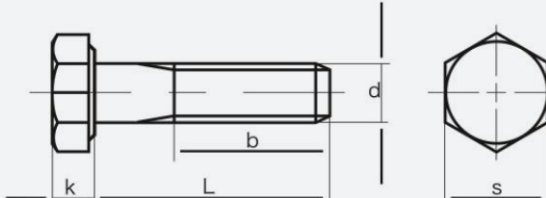
d	M3	M4	M5	M6	M8	M10
p	0,5	0,7	0,8	1	1,25	1,5
d1	4,3	5	6,3	7,3	9,7	11,9
h	5	6	8	9	11	12
a	3,5	4,5	5,5	7	7,5	9
b	13	15	17	19	22	25

Hexagon head bolts, partial threaded (DIN 931)







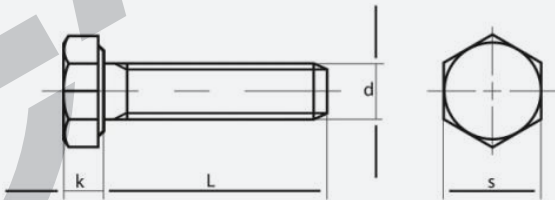



d	M4	M5	M6	M7	M8	M10	M12	M14
P	0,7	0,8	1	1	1,25	1,5	1,75	2
b ⁽¹⁾ (1)	14	16	18	20	22	26	30	34
b ⁽¹⁾ (2)	-	22	24	26	28	32	36	40
b ⁽¹⁾ (3)	-	-	-	-	-	45	49	53
k	2,8	3,5	4	4,8	5,3	6,4	7,5	8,8
s	7	8	10	11	13	17/16*	19/18*	22/21*

Hexagon head bolts, fully threaded (dDIN 933)







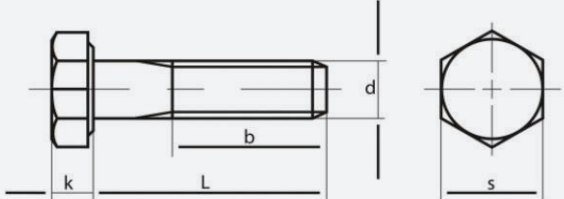
d	M33	M36	M39	M42	M45	M48	M52
P	3,5	4	4	4,5	4,5	5	5
k	21	22,5	25	26	28	30	33
s	50	55	60	65	70	75	80

Hexagon head bolts — Metric fine pitch thread, partial threaded (DIN 960)

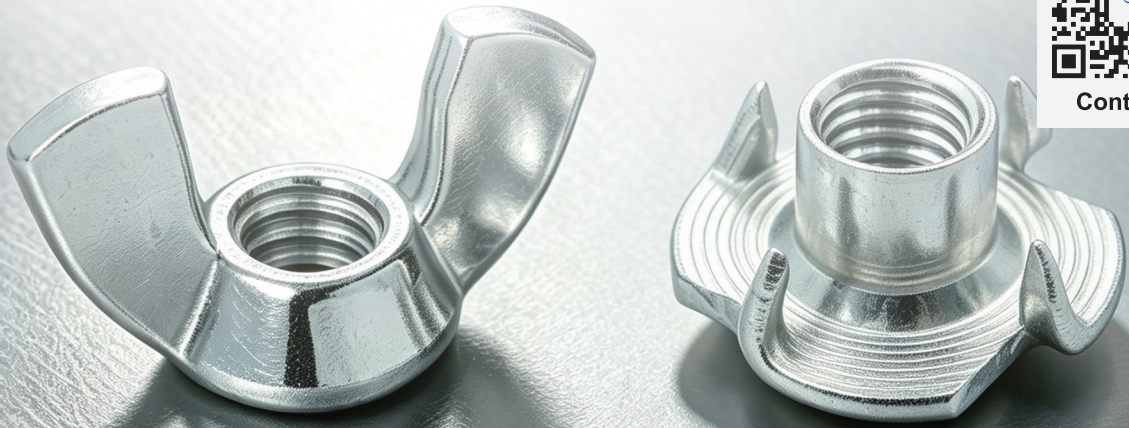






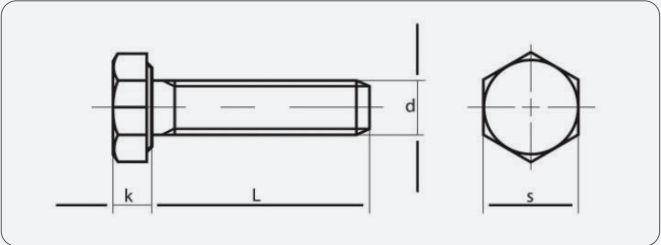



dxP	M8x1	M10x1 M10x1,25	M12x1,25 M12x1,5	M14x1,5	M16x1,5	M18x1,5 M18x2	M20x1,5 M20x2	M22x1,5 M22x2	M24x1,5 M24x2
26	22	26	30	34	38	42	46	50	54
32	28	32	36	40	44	48	52	56	60
6,4	5,3	6,4	7,5	8,8	10	11,5	12,5	14	15
17/16*	13	17/16*	19/18*	22/21*	24	27	30	32/34*	36



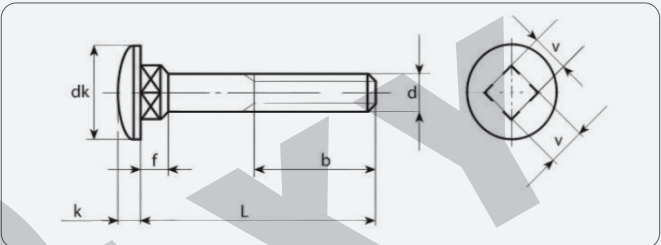
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Hexagon head bolts — Metric fine pitch thread, full threaded (DIN 961)



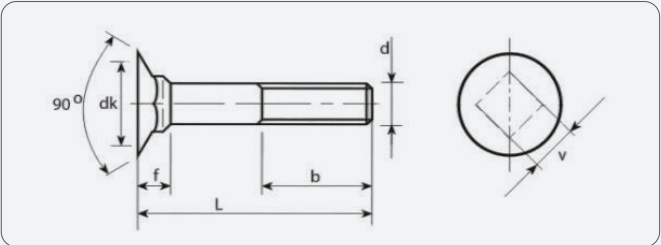
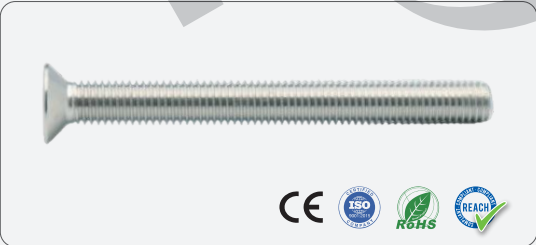
dxP	M8x1	M10x1 M10x1,25	M12x1,25 M12x1,5	M14x1,5	M16x1,5	M18x1,5 M18x2	M20x1,5 M20x2
k	5,3	6,4	7,5	8,8	10	11,5	12,5
s	13	17/16*	19/18*	22/21*	24	27	30

Mushroom head square neck bolts(cup square neck bolts)(DIN603)



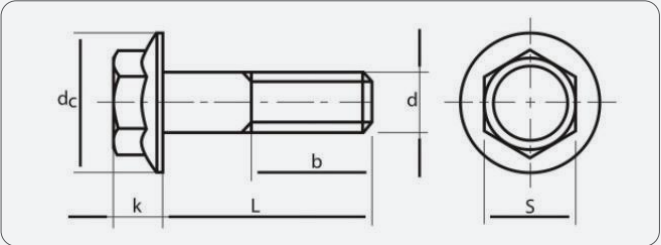
d	M5	M6	M8	M10	M12	M16	M20
P	0,8	1	1,25	1,5	1,75	2	2,5
b ⁽¹⁾	16	18	22	26	30	38	46
b ⁽¹⁾⁽²⁾	22	24	28	32	36	44	52
b ⁽¹⁾⁽³⁾	-	-	41	45	49	57	65
dk (max)	13,55	16,55	20,65	24,65	30,65	38,8	46,8
f (max)	4,1	4,6	5,6	6,6	8,75	12,9	15,9
k (max)	3,3	3,88	4,88	5,38	6,95	8,95	11,05
v (max)	5,48	6,48	8,58	10,58	12,7	16,7	20,84

Flat countersunk square neck bolts (DIN608)



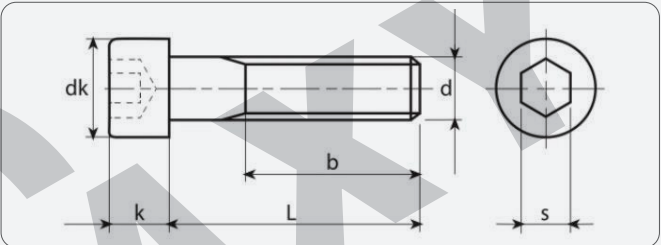
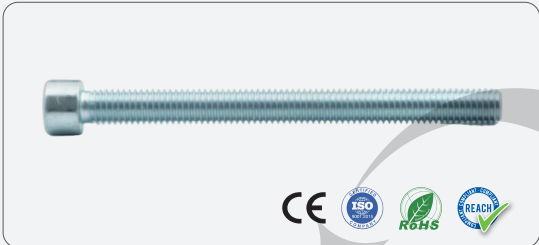
d	M10	M12
P	1,5	1,75
b	26	30
dk (max)	19,65	24,65
f (max)	8,45	11,05
v (max)	10,58	12,7

Hexagon flange bolts (DIN 6921)



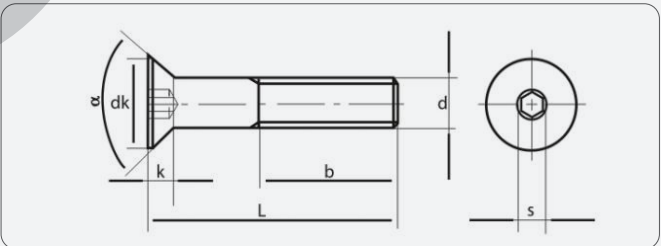
d	M5	M6	M8	M10	M12	M14	M16	M20
P	0,8	1	1,25	1,5	1,75	2	2	2,5
b	16	18	22	26	30	34	38	46
k	5,40	6,6	8,1	9,2	11,5	12,8	14,4	17,1
s	8	10	13	15	16	18	21	27
dc	11,8	14,2	18	22,3	26,6	30,5	35	43

Hexagon socket head cap screw (DIN 912)



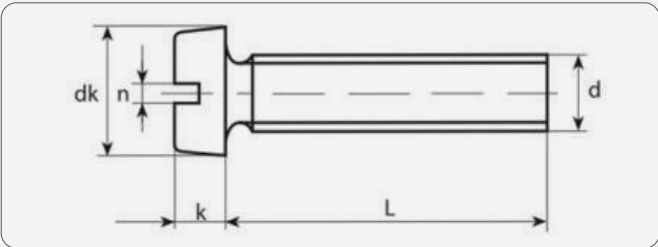
d	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
P	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2	2,5
b*	18	20	22	24	28	32	36	40	44	48
dk (max)	5,5	7	8,5	10	13	16	18	21	24	27
k (max)	3	4	5	6	8	10	12	14	16	18
s	2,5	3	4	5	6	8	10	12	14	14

Hexagon socket countersunk head screws (DIN 7991)



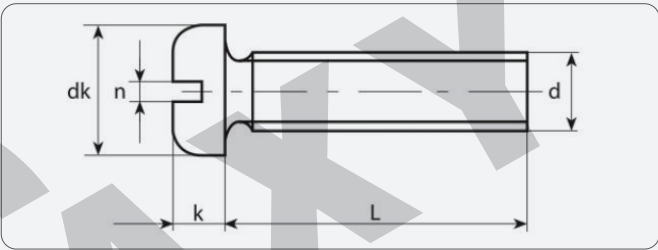
d	M3	M4	M5	M6	M8	M10	M12	M16	M20
P	0,5	0,7	0,8	1	1,25	1,5	1,75	2	2,5
b*	12	14	16	18	22	26	30	38	46
dk	6	8	10	12	16	20	24	30	36
k (max)	1,7	2,3	2,8	3,3	4,4	5,5	6,5	7,5	8,5
α	90°	90°	90°	90°	90°	90°	90°	90°	90°
s	2	2,5	3	4	5	6	8	10	12

Slotted cheese head screws (DIN 84)



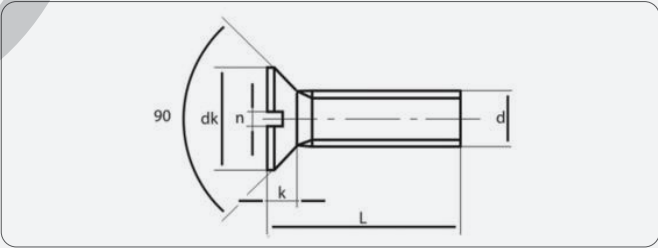
d	M3	M4	M5	M6	M8
P	0,5	0,7	0,8	1	1,25
dk	5,5	7	8,5	10	13
k	2	2,6	3,3	3,9	5
n	0,8	1,2	1,2	1,6	2

Slotted pan head screws (DIN 85)



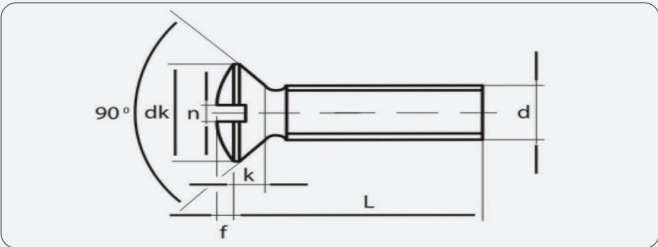
d	M3	M4	M5	M6	M8
P	0,5	0,7	0,8	1	1,25
dk	6	8	10	12	16
k	1,8	2,4	3	3,6	4,8
n	0,8	1,2	1,2	1,6	2

Slotted countersunk head screws (DIN 963)



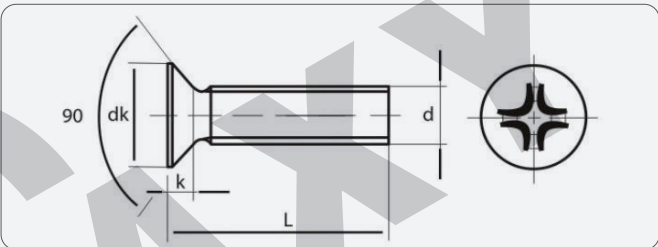
d	M3	M4	M5	M6	M8	M10
P	0,5	0,7	0,8	1	1,25	1,5
dk	5,6	7,5	9,2	11	14,5	18
k(max)	1,65	2,2	2,5	3	4	5
n	0,8	1	1,2	1,6	2	2,5

Slotted raised countersunk head screws (DIN 964)



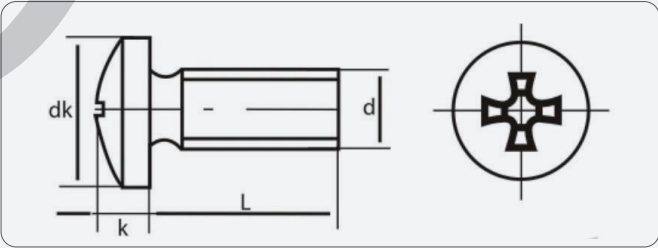
d	M3	M4	M5	M6	M8
P	0,5	0,7	0,8	1	1,25
dk	5,6	7,5	9,2	11	14,5
k (max)	1,65	2,2	2,5	3	4
f	0,75	1	1,25	1,5	2
n	0,8	1	1,2	1,6	2

Cross recessed countersunk head screws (DIN 965)



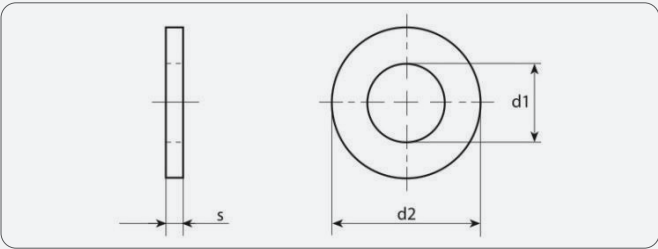
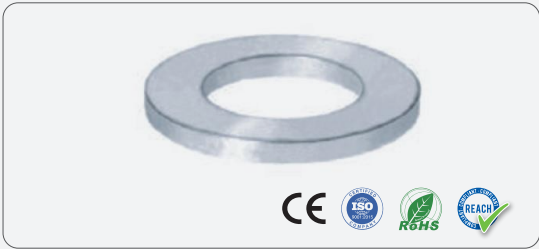
d	M3	M4	M5	M6	M8
P	0,5	0,7	0,8	1	1,25
dk	5,6	7,5	9,2	11	14,5
k (max)	1,65	2,2	2,5	3	4
Nr. Phillips (H)	1	2	2	3	4

Cross recessed raised cheese head screws (DIN 7985)



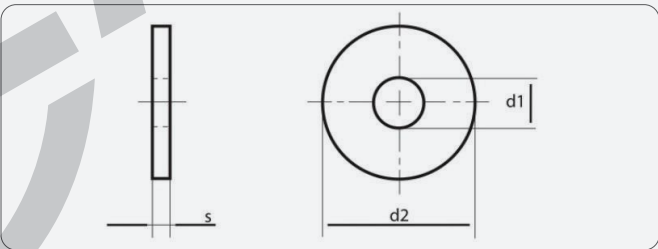
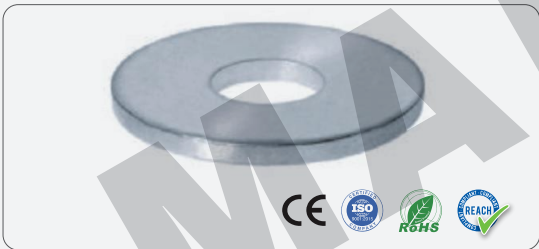
d	M3	M4	M5	M6	M8
P	0,5	0,7	0,8	1	1,25
dk	6	8	10	12	16
k	2,4	3,1	3,8	4,6	6
Nr. Phillips (H)	1	2	2	3	4

Plain washers without chamfer (DIN 125A)



d nom.	M3	M4	M5	M6	M7	M8	M10	M12	M14
d1	3,2	4,3	5,3	6,4	7,4	8,4	10,5	13	15
d2	7	9	10	12	14	16	20	24	28
s	0,5	0,8	1	1,6	1,6	1,6	2	2,5	2,5
d nom.	M16	M18	M20	M22	M24	M27	M30	M33	M36
d1	17	19	21	23	25	28	31	34	37
d2	30	34	37	39	44	50	56	60	66
s	3	3	3	3	4	4	4	5	5
d nom.	M39	M42	M45	M48	M52	M56	M60	M64	
d1	40	43	46	50	54	58	62	66	
d2	72	78	85	92	98	105	110	115	
s	6	7	7	8	8	9	9	9	

Plain washers d2 ≈ 3 x d1 (DIN 9021)

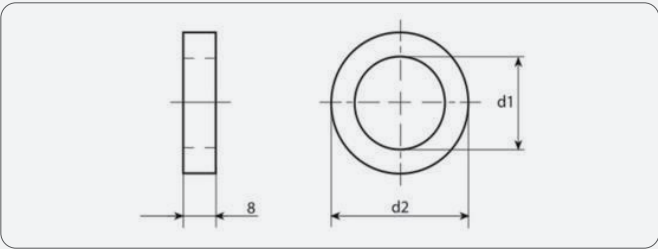
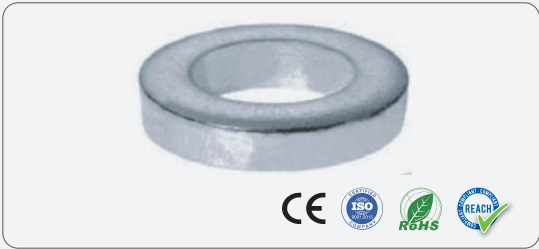


d nom.	M3	M4	M5	M6	M7	M8	M10
d1 (min)	3,2	4,3	5,3	6,4	7,4	8,4	10,5
d2 (max)	9	12	15	18	22	24	30
s	0,8	1	1,2	1,6	2	2	2,5
d nom.	M12	M14	M16	M18	M20	M24	
d1 (min)	13	15	17	20	22	26	
d2 (max)	37	44	50	56	60	72	
s	3	3	3	4	4	5	



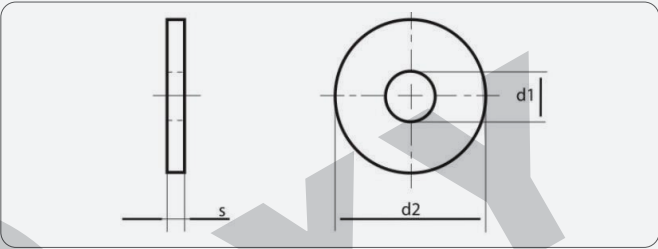
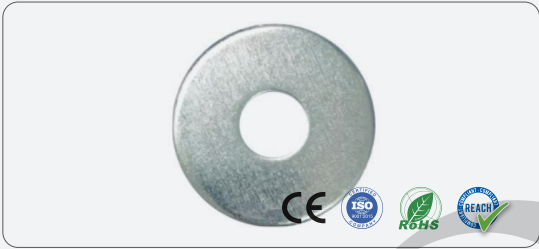
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Washers for steel structures (DIN 7989)

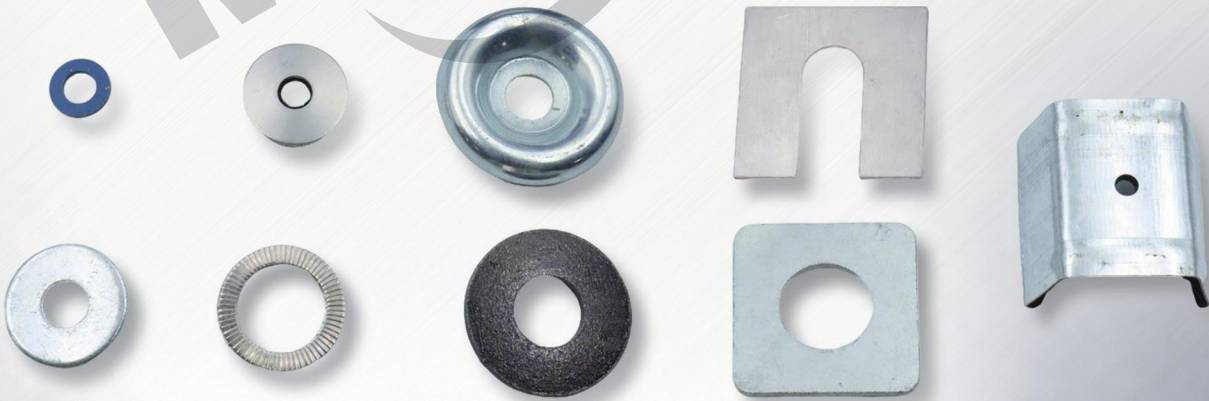


d nom.	M10	M12	M16	M20	M22	M24	M27	M30	M33	M36
d1	11	14	18	22	24	26	30	33	36	39
d2	21	24	30	37	39	44	50	56	60	66

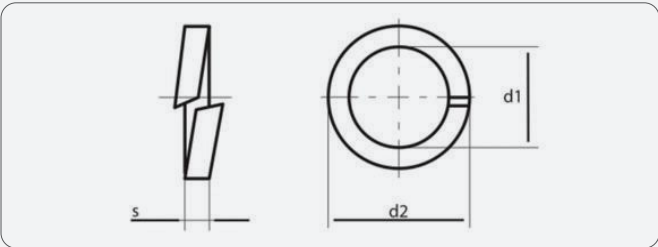
Plain washers for timber construction (DIN 440R)



d nom.	M5	M6	M8	M10	M12	M14	M16	M20	M22	M24
d1	5,5	6,6	9	11	13,5	15,5	17,5	22	24	26
d2	18	22	28	34	44	50	56	72	80	85
s	2	2	3	3	4	4	5	6	6	6
d nom.	M27	M30	M33	M36	M39	M42	M45	M48	M52	
d1	30	33	36	39	42	45	48	52	56	
d2	98	105	112	236	140	150	160	170	180	
s	6	6	6	8	8	8	8	10	10	

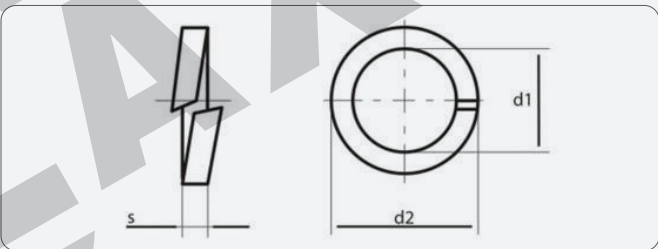


Spring lock washers (DIN7980)



d nom.	M3	M4	M5	M6	M8	M10	M12
d1 (min)	3,1	4,1	5,1	6,1	8,1	10,2	12,2
d2 (max)	5,6	7	8,8	9,9	12,7	16	18
s	1	1,2	1,6	1,6	2	2,5	2,5
d nom.	M14	M16	M20	M22	M24	M27	M30
d1 (min)	14,2	16,2	20,2	22,5	24,5	27,5	30,5
d2 (max)	21,1	24,4	30,6	32,9	35,9	38,9	44,1
s	3	3,5	4,5	4,5	5	5	6

Spring lock washers (DIN 127B)

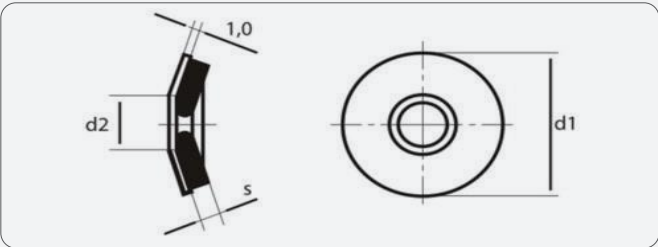
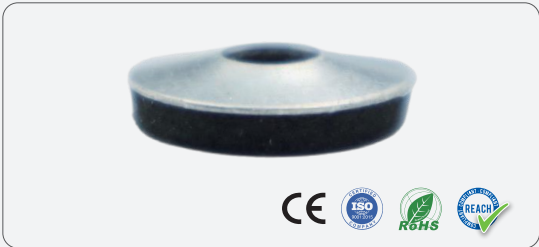


d nom.	M3	M4	M5	M6	M7	M8	M10	M12
d1 (min)	3,1	4,1	5,1	6,1	7,1	8,1	10,2	12,2
d2 (max)	6,2	7,6	9,2	11,8	12,8	14,8	18,1	21,1
s	0,8	0,9	1,2	1,6	1,6	2	2,2	2,5
d nom.	M3	M4	M5	M6	M7	M8	M10	M12
d1 (min)	3,1	4,1	5,1	6,1	7,1	8,1	10,2	12,2
d2 (max)	6,2	7,6	9,2	11,8	12,8	14,8	18,1	21,1
s	0,8	0,9	1,2	1,6	1,6	2	2,2	2,5
d nom.	M36	M39	M42	M45	M48	M52		
d1 (min)	36,5	39,5	42,5	45,5	49	53		
d2 (max)	58,2	61,2	68,2	71,2	75	83		
s	6	6	7	7	7	8		



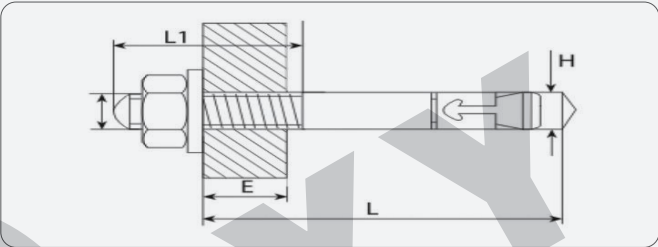
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EPDM Bonded Sealing Washers



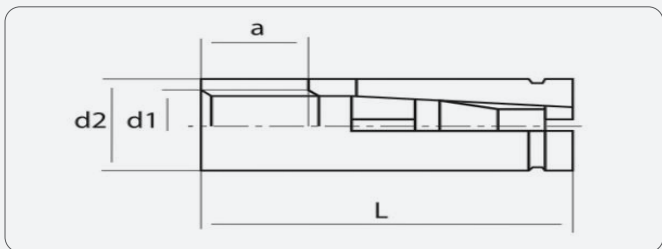
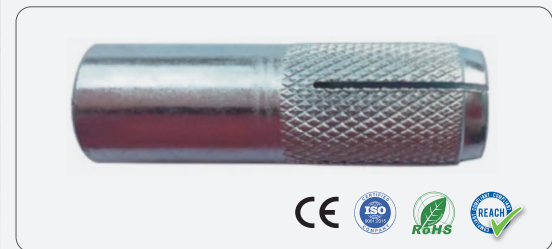
d1	16	18	22	25
d2	6,7	6,7	6,7	6,7
s	2	3	3	3

Wedge anchors (through Bolts)



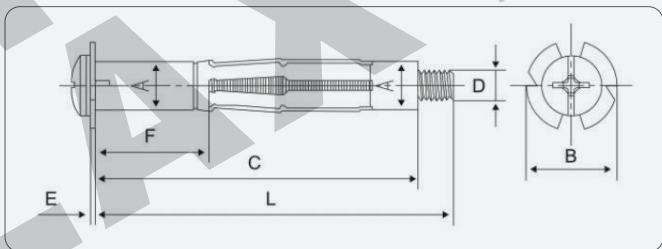
dxL	M12x160	M12x180	M12x220	M12x250	M14x80	M14x100	M14x120	M14x145
H = drill ø	12	12	12	12	14	14	14	14
L = drill depth	85	85	85	85	65	85	100	100
E = grip range	80	100	140	170	2	10	30	55
G = torque	7-8	7-8	7-8	7-8	11-13	11-13	11-13	11-13
L1 = thread length	45	45	45	45	30	45	45	45
pull out-force: 200 Kg concrete	4.000	4.000	4.000	4.000	4.800	4.800	4.800	4.800
pull out-force: 300 Kg concrete	4.700	4.700	4.700	4.700	5.500	5.500	5.500	5.500
shear tension: 200 Kg concrete	3.800	3.800	3.800	3.800	4.500	4.500	4.500	4.500
shear tension: 300 Kg concrete	3.800	3.800	3.800	3.800	4.500	4.500	4.500	4.500
dxL	M14x170	M14x220	M14x250	M16x90	M16x125	M16x145	M16x170	M16x220
H = drill ø	14	14	14	16	16	16	16	16
L = drill depth	100	100	100	75	110	110	110	110
E = grip range	80	130	160	2	10	30	55	115
G = torque	11-13	11-13	11-13	14-16	14-16	14-16	14-16	14-16
L1 = thread length	45	45	45	30	45	45	45	45
pull out-force: 200 Kg concrete	4.800	4.800	4.800	5.500	5.500	5.500	5.500	5.500
pull out-force: 300 Kg concrete	5.500	5.500	5.500	6.750	6.750	6.750	6.750	6.750
shear tension: 200 Kg concrete	4.500	4.500	4.500	6.600	6.600	6.600	6.600	6.600
shear tension: 300 Kg concrete	4.500	4.500	4.500	6.600	6.600	6.600	6.600	6.600

Drop-in anchors



d1	5	6	8	10	12	16	20
L	25	30	40	40	50	60	80
d2	8	8	10	12	15	20	25
a = thread length	11	11	13	15	18	23	34
torque	0,3	0,5	1,2	2,4	4,2	10	17
pull out force 250kg concrete	200	300	540	650	810	1.03	1.62
shear tension 250kg concrete	100	175	250	380	550	1.02	1.59

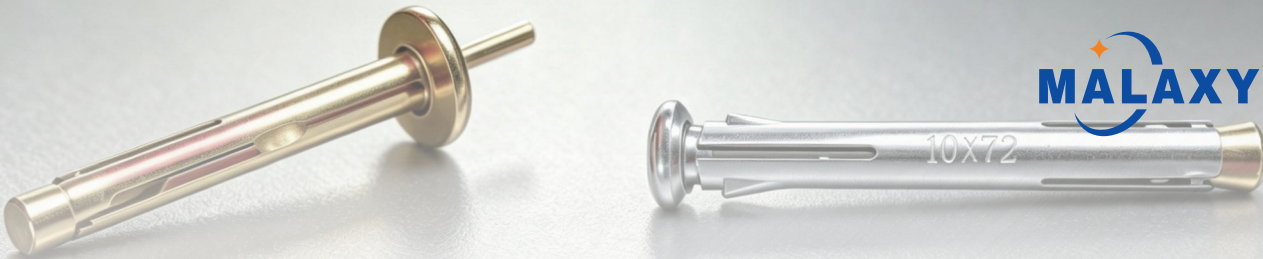
Hollow Wall Anchor (With pan head screw)



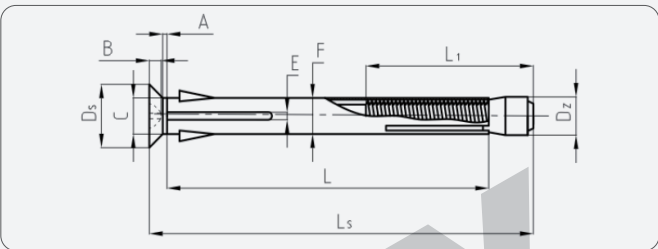
Size	A ±0,2	B ±0,1	C ±1,5	D	E -0,1	F ±0,5	L ±1,5
M4x20	7	13	20	M4	0,7	5,5	27
M4x32	7	13	32	M4	0,7	7,5	40
M4x38	7	13	38	M4	0,7	13,5	45
M4x46	7	13	46	M4	0,7	20,5	52
M4x52	7	13	52	M4	0,7	26,5	60
M4x60	7	13	60	M4	0,7	34,0	67
M5x37	8,5	16	37	M5	0,8	8,0	45
M5x52	8,5	16	52	M5	0,8	10,0	60
M5x65	8,5	16	65	M5	0,8	23,5	72
M6x37	9,5	17,5	37	M6	0,9	7,5	45
M6x52	9,5	17,5	52	M6	0,9	10,0	60
M6x65	9,5	17,5	65	M6	0,9	23,0	72



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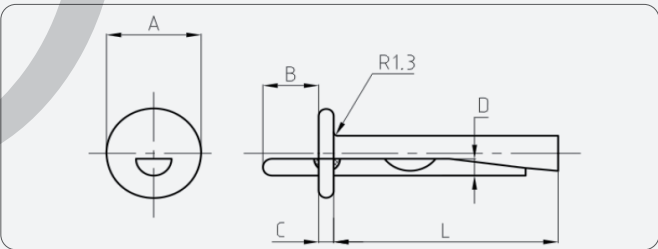
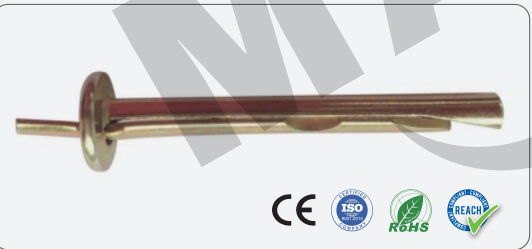


Metal frame anchor



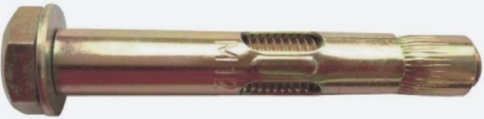
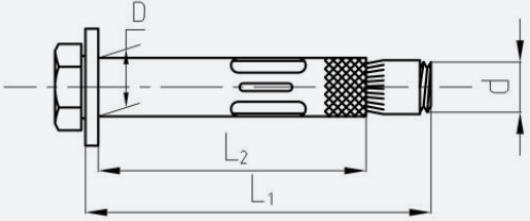
SIZE	L	LS±2	L1±2	Sleeve Thick.	Ds±0,2	A	B-0,4	C	Dz±0,1	E	F±2
M10x52	52	64	48	0,7	13	1,5	2,8	9	9,7	2	9,4
M10x72	72	84	48	0,7	13	1,5	2,8	9	9,7	2	9,4
M10x92	92	104	48	0,7	13	1,5	2,8	9	9,7	2	9,4
M10x112	112	124	48	0,7	13	1,5	2,8	9	9,7	2	9,4
M10x132	132	144	48	0,7	13	1,5	2,8	9	9,7	2	9,4
M10x152	152	164	48	0,7	13	1,5	2,8	9	9,7	2	9,4
M10x182	182	194	48	0,7	13	1,5	2,8	9	9,7	2	9,4
M10x202	202	214	48	0,7	13	1,5	2,8	9	9,7	2	9,4

Ceiling anchor

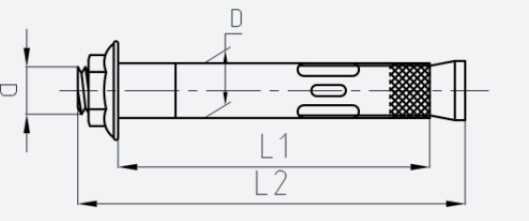


Size	A	B	C	D Max	L
6x40	14,2 - 14,5	9,0 REF	2,2 - 2,3	6,1	35,5 - 36,5
6x60	14,2 - 14,5	9,0 REF	2,2 - 2,3	6,1	55,5 - 56,5
6x65	14,2 - 14,5	9,0 REF	2,2 - 2,3	6,1	61,5 - 62,5

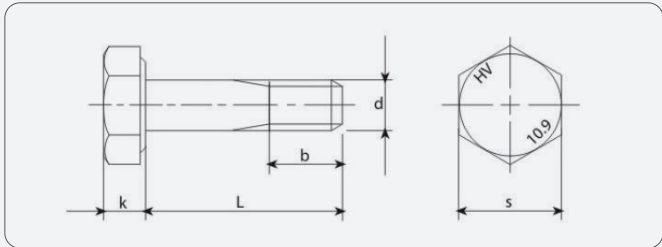
Sleeve Anchor Hex Bolt Type

  				
Size	d (+0mm; -0,4mm)	D (+0,2mm; -0,5mm)	L1 ±2mm	L2 ±2mm
8X40	M6	8	40	30,00
8X45	M6	8	45	34,50
8X60	M6	8	60	50,00
8X75	M6	8	75	65,00
8X80	M6	8	80	70,00
8X85	M6	8	85	75,00
8X90	M6	8	90	80,30
8X100	M6	8	100	90,30
10X50	M8	10	50	36,00
10X55	M8	10	55	41,00
10X60	M8	10	60	46,00
10X75	M8	10	75	61,00
10X80	M8	10	80	66,00
10X85	M8	10	85	71,00
10X90	M8	10	90	81,00
10x100	M8	10	100	86,00
10x110	M8	10	110	96,00
10X115	M8	10	115	101,00
10X120	M8	10	120	106,00
10X125	M8	10	125	111,00
10X130	M8	10	130	116,00
10X140	M8	10	140	124,90
12X65	M10	12	65	48,00
12X70	M10	12	70	52,00
12X80	M10	12	80	62,00
12X100	M10	12	100	82,00
12X110	M10	12	110	92,00
12X120	M10	12	120	102,00
12X140	M10	12	140	122,00
12X150	M10	12	150	132,00
16X80	M12	16	80	61,00
16X110	M12	16	110	91,00
16X130	M12	16	130	111,00
16X150	M12	16	150	131,00
16X160	M12	16	160	141,00
20X110	M16	20	110	81,00

Sleeve Anchor, Hex Flange Nut Type

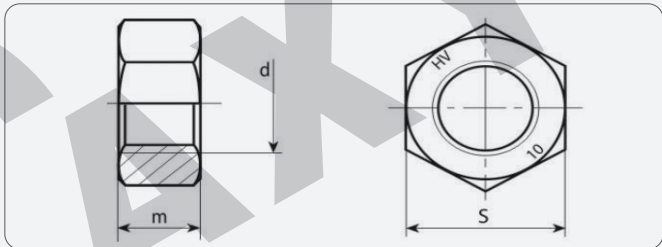
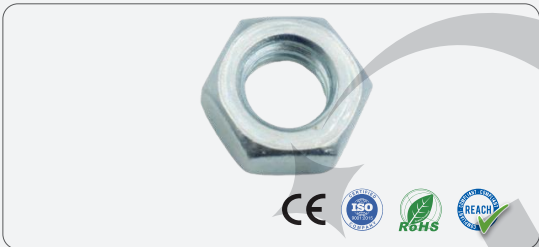
  				
Size	d (+0mm; -0,4mm)	D (+0,2mm; -0,5mm)	L1 ±2mm	L2 ±2mm
8X25	M6	8	18	25
8X40	M6	8	28	40
8X45	M6	8	34	45
8X50	M6	8	40	50
8X60	M6	8	49	60
8X65	M6	8	55	65
8X70	M6	8	59	70
8X80	M6	8	69	80
8X85	M6	8	74	85
8X90	M6	8	79	90
8X100	M6	8	89	100
8X120	M6	8	109	120
8X140	M6	8	129	140
10X40	M8	10	28	40
10X50	M8	10	36	50
10X55	M8	10	42	55
10X60	M8	10	47	60
10X65	M8	10	52	65
10X70	M8	10	57	70
10X77	M8	10	64	77
10X90	M8	10	77	90
10X97	M8	10	84	97
10X120	M8	10	105	120
10X125	M8	10	110	125
10X130	M8	10	115	130
10X140	M8	10	125	140
10X150	M8	10	135	150
10X180	M8	10	165	180
12X60	M10	12	42	60
12X75	M10	12	56	75
12X80	M10	12	62	80
12X99	M10	12	82	99
12X110	M10	12	92	110
12X120	M10	12	102	120
12X129	M10	12	112	129
12X140	M10	12	122	140
12X150	M10	12	132	150
12X160	M10	12	142	160
12X170	M10	12	152	170
12X180	M10	12	162	180
16X65	M12	16	42	65
16X85	M12	16	62	85
16X111	M12	16	91	111
16X147	M12	16	126	147
16X165	M12	16	145	165
16X180	M12	16	160	180
16X200	M12	16	180	200
16X220	M12	16	200	220
20X75	M16	20	47	75
20X107	M16	20	79	107
20X151	M16	20	122	151
20X161	M16	20	132	161
20X180	M16	20	151	180
20X200	M16	20	171	200

High strength structural bolts (DIN 6914)



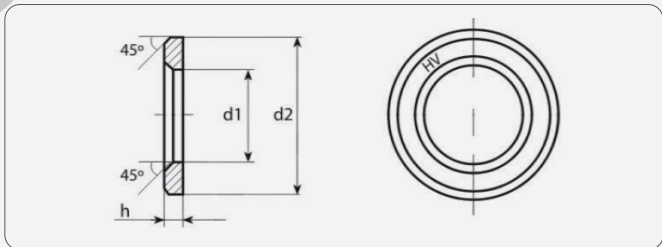
d	M12	M16	M20	M22	M24	M27	M30	M36
P	1,75	2	2,5	2,5	3	3	3,5	4
b 1)	21	26	31	32	34	37	40	48
b 2)	23	28	33	34	37	39	42	50
k	8	10	13	14	15	17	19	23
s	22	27	32	36	41	46	50	60

High-strength structural hexagonal nuts (DIN 6915)



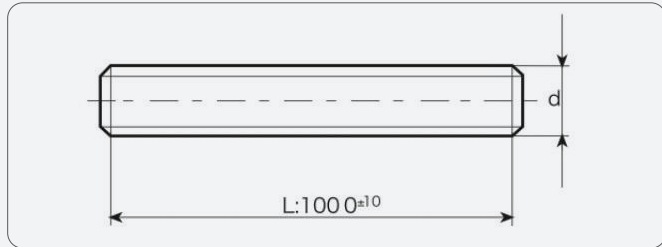
d	M12	M16	M20	M22	M24	M27	M30	M36
P	1,75	2	2,5	2,5	3	3	3,5	4
m	10	13	16	18	20	22	24	29
s	22	27	32	36	41	46	50	60

High-strength structural washers (HV) (DIN 6916)



d	M12	M16	M20	M22	M24	M27	M30	M36
d1	13	17	21	23	25	28	31	37
d2	24	30	37	39	44	50	56	66
h	3	4	4	4	4	5	5	6

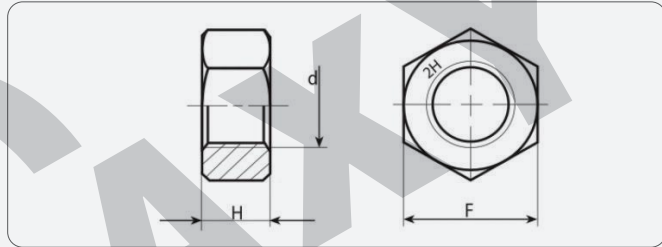
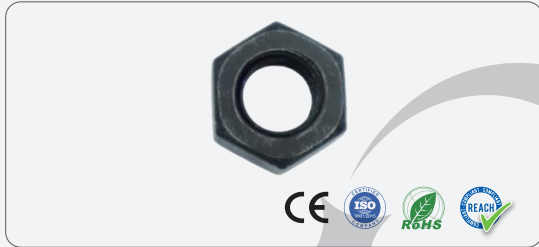
Stud bolts ASTM A193, grade B7, B16, L7



d / inch	1/2	5/8	3/4	7/8	1	1/8	1 1/4
Threads per inch	13	11	10	9	8	8	8

d / inch	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2"	
Threads per inch	8	8	8	8	8	8	

Hex nuts ASTM A194 grade 2H



d / inch	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8
Threads per inch	8	8	8	8	8
H	28.2	30.95	34.15	37.3	40.5
F inch	1 13/16	2"	2 3/16	2 3/8	2 9/16
mm	46	50.8	55.6	60.3	65.1
d / inch	1 3/4	1 7/8	2"		
Threads per inch	8	8	8		
H	43.65	46.85	50		
F inch	2 3/4	2 15/16	3 1/8		
mm	69.85	74.6	79.4		

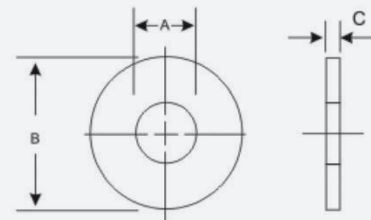


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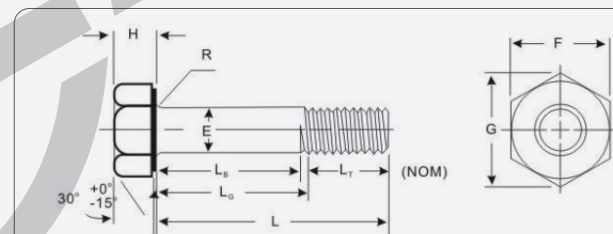
Structural Flat Washer F436



Size	B	A	C		Size	B	A	C		Size	B	A	C	
	Nominal	Nominal	Max	Min		Nominal	Nominal	Max	Min		Nominal	Nominal	Max	Min
1/4	.625	.281	.051	.080	1	2.000	1.063	.136	.177	2 1/4	4.000	2.375	.240	.340
5/16	.688	.344	.051	.080	1 1/8	2.250	1.188	.136	.177	2 1/2	4.500	2.625	.240	.340
3/8	.813	.406	.051	.080	1 1/4	2.500	1.375	.136	.177	2 3/4	5.000	2.875	.240	.340
7/16	.922	.469	.051	.080	1 3/8	2.750	1.500	.136	.177	3	5.500	3.125	.240	.340
1/2	1.063	.531	.097	.177	1 1/2	3.000	1.625	.136	.177	3 1/4	6.000	3.375	.240	.340
9/16	1.188	.625	.110	.177	1-5/8	3.250	1.750	.178	.280	3 1/2	6.500	3.625	.240	.340
5/8	1.313	.688	.122	.177	1 3/4	3.375	1.875	.178	.280	3 3/4	7.000	3.875	.240	.340
3/4	1.468	.813	.122	.177	1 7/8	3.468	1.937	.178	.196	4	7.500	4.125	.240	.340
7/8	1.75	.938	.136	.177	2	3.750	2.125	.178	.280					

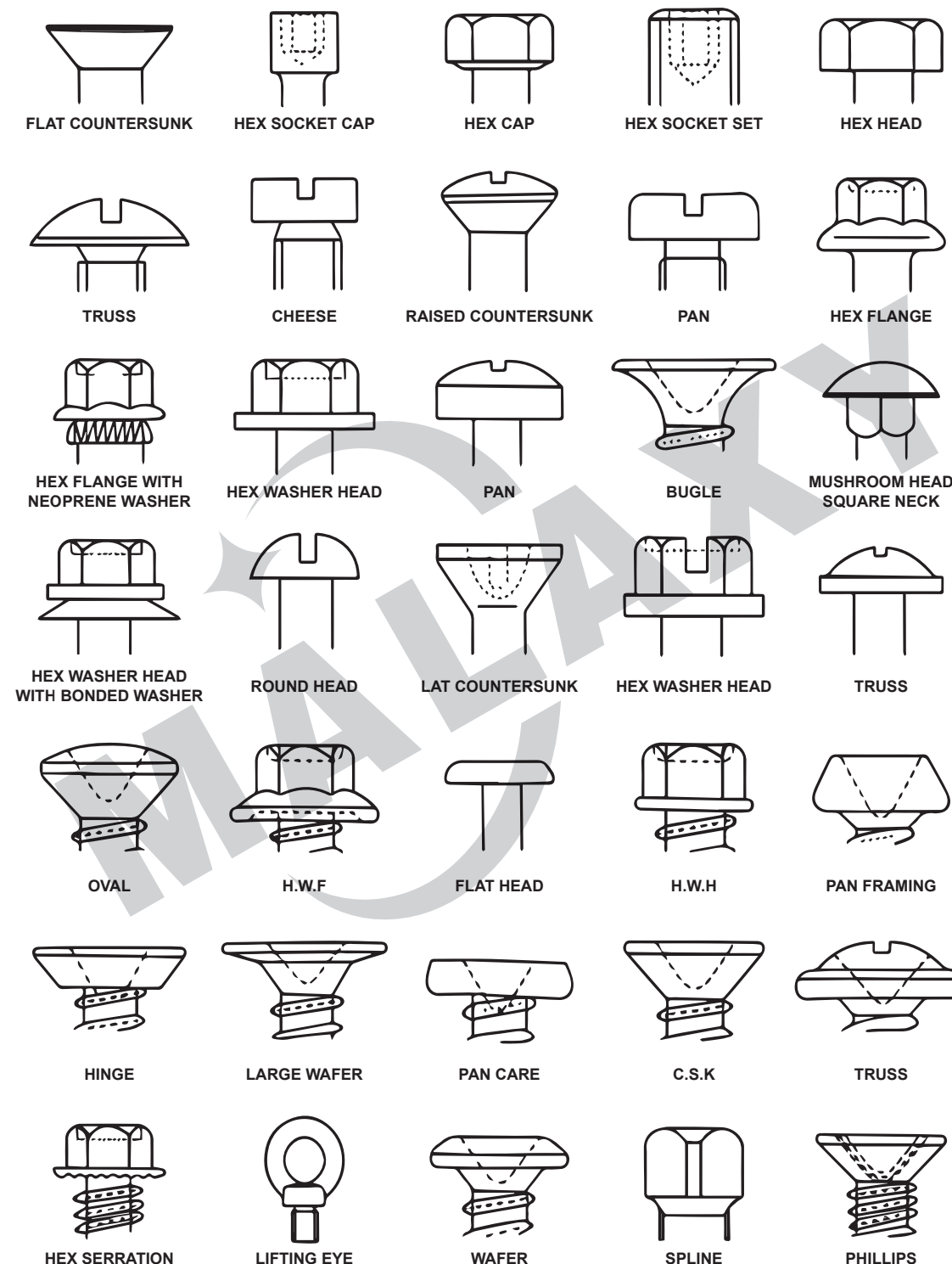
OD	<1=+/- .032	1=3=+/- .063	>3=+/- .125
ID	<1=+/- .032	1=3=-0/+ .064	>3=-0/+ .125

Hexagon Structure Bolt



Nominal Size (inch)	E		F			G		H			Thread Length Basic
	Flt Size Body Dia		Width Across Flats			Width Across Corners		Head Height			
	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	
1/2	0.515	0.482	7/8	0.875	0.850	1.010	0.969	5/16	0.323	0.302	1.00
5/8	0.642	0.605	1 1/16	1.063	1.031	1.227	1.175	25/64	0.403	0.378	1.25
3/4	0.768	0.729	1 1/4	1.250	1.212	1.443	1.383	15/32	0.483	0.455	1.38
7/8	0.895	0.852	1 7/16	1.438	1.394	1.660	1.589	35/64	0.563	0.531	1.50
1	1.022	0.976	1 5/8	1.625	1.575	1.876	1.796	39/64	0.627	0.591	1.75
1 1/8	1.149	1.098	1 13/16	1.813	1.756	2.093	2.002	11/16	0.718	0.658	2.00
1 1/4	1.277	1.223	2	2.000	1.3938	2.309	2.0209	25/32	0.813	0.749	2.00
1 3/8	1.404	1.345	2 3/16	2.188	2.119	2.526	2.416	27/32	0.878	0.810	2.25
1 1/2	1.531	1.470	23/8	2.375	2.300	2.742	2.622	15/16	0.974	0.902	2.25

Head Types



Environmental Social & Governance



ENVIRONMENT (E)

On environment (E), MALAXY's environmental impact primarily stems from energy use, waste emissions and resource consumption. To mitigate this, we boost energy efficiency, cut waste emissions, and expand renewable energy adoption, such as integrating solar power production.

GOVERNANCE (G)

On governance (G) we are building a transparent, regulated governance structure: MALAXY strengthens internal governance and risk management, adheres to laws, and formulates and enforces corporate ethics and conduct codes.

SOCIAL (S)

On social (S) aspects, MALAXY provides employees with a safe, healthy workplace, safeguarding their rights and fostering diversity, with over 72% of our team being women. We also focus on supply chain social responsibility, ensuring suppliers comply with labor and human rights standards.

MALAXY continues striving for a sustainable business model, aiming to positively impact the global environment, communities, and society.

