



Index

Wheel hub bolt	
High-strength bolt	
Bolts and Nuts Data	
Hex bolts	
Carriage Bolts	
Square Head Bolts	
U Bolts	
Cap Screws	
Countersunk Socket Head Screw	
Button Head screw	
Socket Set Screws	
Foundation Bolts	
Threaded Rod	
Coupling Nuts	
Hex Nuts	
Nylon Hex Lock nuts	
Hex Flange Nuts	
Domed Cap Nuts	
Hexagon Nuts With Clamping PartWing Nuts	
Hexagon Slotted Castle Nuts	
Flat Washers	
Spring Lock Washers	
Serrated Lock Washers	
Anchors	
Others	

Bolts and nuts Data

Material



Carbon Steel:
Low or Medium Carbon



Stainless steel:
201/304/316/316L



Brass



Silicon bronze

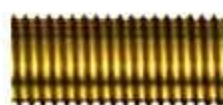


Aluminum

Finishes



White Blue Zinc Plated



Yellow Zinc Plated



White Zinc Plated



Black Zinc Plated



Nickel Plated



Hot Dip Galvanized



Black Oxide



Ruspert



Dacromet



Black Phosphated

Identification Marks



Class 4.8



Class 8.8



Class 10.9



Class 12.9



Grade 2



Grade 5



Grade 8



307A



307B



307C



AB36



AB 55



AB 105



B8



A325



A449



B7



BC



L7



L43



A490

Size comparison table

Thread Size	M3	5#	1/8"	M4	#8	3/16"	10#	M5	M6	1/4"
Diameter	3	3.175	3.175	4	4.1656	4.7625	4.826	5	6	6.35
UNC	-	40	40	-	32	24	24	-	-	20
UNF	-	44	44	-	36	32	32	-	6	28
Coarse Pitch	0.5	0.635	0.635	0.7	0.7938	1.0583	1.0583	0.8	1	1.27
Fine Pitch	0.35	0.5773	0.5773	0.5	0.7056	0.7938	0.7938	0.5	0.5	0.9071

Thread Size	1/4"	5/16"	5/16"	M8	3/8"	3/8"	M10	7/16"	7/16"	M12
Diameter	6.35	7.9375	7.9375	8	9.525	9.525	10	11.1125	11.1125	12
UNC	20	18	18	-	16	16	-	14	14	-
UNF	26	24	22	-	24	20	-	20	18	-
Coarse Pitch	1.27	1.4111	1.4111	1.25	1.5875	1.5875	1.5	1.8143	1.8143	1.75
Fine Pitch	0.9769	1.0583	1.1545	1	1.0583	1.27	1	1.27	1.4111	1.5/1

Thread Size	1/2"	1/2"	M14	9/16"	9/16"	5/8"	5/8"	M16	M18	3/4"
Diameter	12.7	12.7	14	14.2875	14.2875	15.875	15.875	16	18	19.05
UNC	13	13	-	12	12	11	11	-	-	10
UNF	20	18	-	18	16	18	14	-	-	16
Coarse Pitch	1.9538	1.9538	2	2.1167	2.1167	2.3091	2.3091	2	2.5	2.54
Fine Pitch	1.27	1.4111	1.5	1.4111	1.5875	1.4111	1.8143	1.5	2	1.5875

Thread Size	3/4"	M20	M22	7/8"	7/8"	M24	1"	1"
Diameter	19.05	20	22	22.225	22.225	24	25.4	25.4
UNC	10	-	-	9	9	-	8	8
UNF	16	-	-	14	11	-	12	10
Coarse Pitch	2.54	2.5	2.5	2.8222	2.8222	3	3.175	3.175
Fine Pitch	1.5875	2/1.5	2	1.8143	2.3091	2/1.5	1.1167	2.54

Standards

UNI / DIN / ISO / ANSI / ASME / JIS / GB

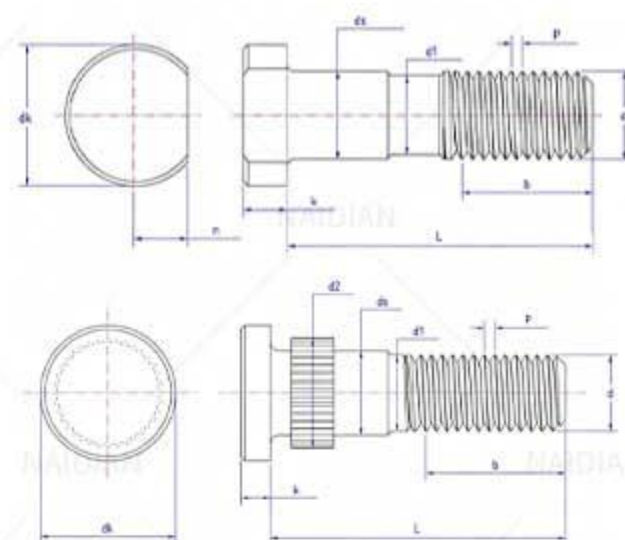
Automotive wheel hub bolts



round head



hex head



JIS/JASO C610-1979

(mm)	M10	M12	M14	M16	M20	M22
P	1.25	1.25	1.5	1.5	1.5	1.5
d1	9	11	13	15	19	21
ds	10	12	14	16	20	22
dk	18	18	22	28	32	36
n	6	7	8	10	12	14
k	4	4	5	6	10	10

(mm)	M10	M12	M14	M16
P	1.25	1.25/1.5	1.5	1.5
d1	9	11	13	15
ds	11	13	15	17
dk	10	12	14	16
n	16	17	21	24
k	4	4	5	6

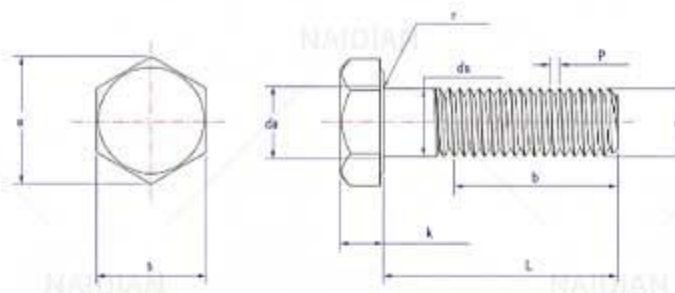
high-strength bolt



true colors



blackening



GB/T 1228-2006

(mm)	M12	M16	M20	M22	M24	M27	M30
P	1.75	2	2.5	2.5	3	3	3.5
da max	15.23	19.23	24.32	26.32	28.32	32.84	35.84
ds max	12.43	16.43	20.52	22.52	24.52	27.84	30.84
ds min	11.57	15.57	19.48	21.48	23.48	26.16	29.16
e min	22.78	29.56	37.29	39.55	45.2	50.85	55.37
k max	7.95	10.75	13.4	14.9	15.9	17.9	19.75
k min	7.05	9.25	11.6	13.1	14.1	16.1	17.65
r min	1	1	1.5	1.5	1.5	2	2
s max	21	27	34	36	41	46	50
s min	20.16	26.16	33	35	40	45	49

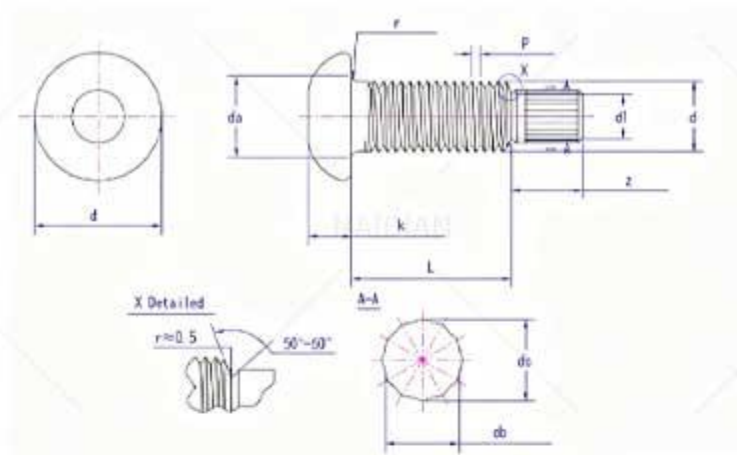
high-strength bolt



true colors



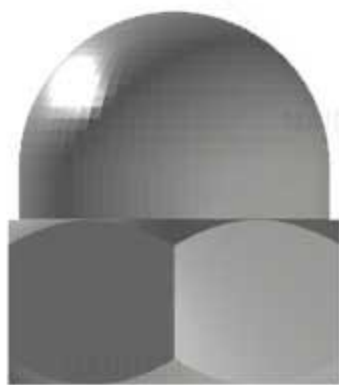
blackening



GB/T 3632-2008

(mm)	M16	M20	M22	M24	M27	M30
P	2	2.5	2.5	3	3	3.5
da max	18.83	24.4	26.4	28.4	32.84	35.84
ds max	30	37	41	44	50	55
k max	10.75	13.9	14.9	15.9	17.9	20.05
k min	9.25	12.1	13.1	14.1	16.1	17.95
z max	10.9	13.6	15.1	16.4	18.6	20.6
r min	1.2	1.2	1.2	1.6	2	2
d1	10.9	13.6	15.1	16.4	18.6	20.6
db max	1.3	14.1	15.6	16.9	19.3	21.4
db min	11	13.8	15.3	16.6	18.7	20.8
dc	12.8	16.1	17.8	19.3	21.9	24.4

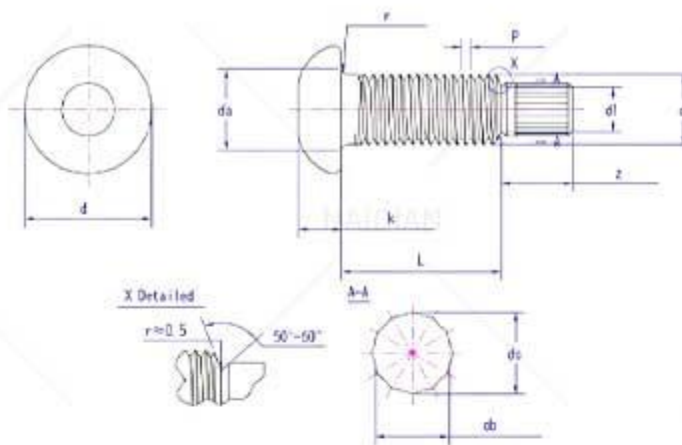
Hexagonal cap nut



true colors



blackening



GB/T 923-2009

(mm)	M4	M5	M6	M8	M10	M12
P	0.7	0.8	1	1.25	1.5	1.75
e min	7.66	8.79	11.05	14.38	17.77	20.03
h max	8	10	12	15	18	20
h min	7.64	9.64	11.57	14.57	17.57	21.48
k max	3.2	4	5	6.5	8	10
k min	2.9	3.7	4.7	6.14	7.64	9.64
s max	7	8	10	13	16	18
s min	6.78	7.78	9.78	12.73	15.73	17.73
t max	5.74	7.79	8.29	11.35	13.35	16.35
tmin	5.26	7.21	7.71	10.65	12.65	15.65
(mm)	M14	M16	M18	M20	M22	M24
P	2	2	2.5	2.5	2.5	3
e min	23.55	26.75	29.56	32.95	37.29	39.55
h max	25	28	32	34	39	42
h min	24.48	27.48	31	33	38	41
k max	11	13	15	16	18	19
k min	10.3	12.3	14.3	14.9	16.9	17.7
s max	21	24	27	30	34	36
s min	20.67	23.67	26.16	29.16	33	35
t max	18.35	21.42	25.42	26.42	29.42	31.5
tmin	17.65	20.58	24.58	25.58	28.58	30.5

Hex Bolts

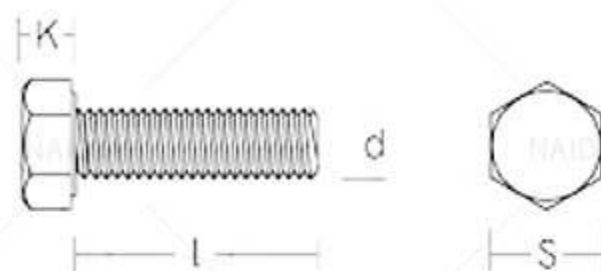


Carbon Steel



Stainless steel

UNI 5739 -DIN 933 - ISO 4017



Finitura Superficiale



Zinc Plated



BlackOxide



Dacromet



Black Phosphated



Hot Dip Galvanized

d	M3	M4	M5	M6	M7	M8	M10	M12	M14	M15	M18
S	5.5	7	8	10	11	13	17	19	22	24	27
K	2	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10	11.5
l	6-300										

d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48
S	30	32	36	41	46	50	55	60	65	70	75
K	12.5	14	15	17	18.7	21	22.5	25	26	28	30
l	6-300										

UNI5740 -DIN 961 - ISO 8676

d	M8x1	M10x1.25	M12x1.25	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x2
S	13	17	19	22	24	27	30	32	36
K	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15
l	10-120								

Hex Bolts

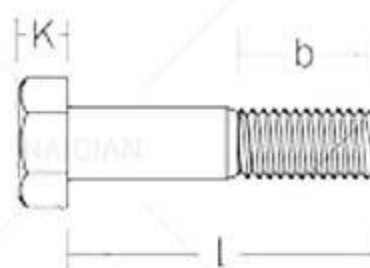


Carbon Steel



Stainless steel

UNI 5737 -DIN 931 - ISO 4014



d	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20
S	7	8	10	11	13	17	19	22	24	27	30
K	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10	11.5	12.5
b(l≤125)	14	16	18	20	22	26	30	34	38	42	46
b(125<l≤200)	-	22	24	26	28	32	36	40	44	48	52
b(l≥200)	-	-	-	-	-	45	49	53	57	61	65

d	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48
S	32	36	41	46	50	55	50	65	70	75
K	14	15	17	18.7	21	22.5	21	26	28	30
b(l≤125)	50	54	60	66	72	78	72	-	-	-
b(125<l≤200)	36	60	66	72	78	84	78	96	102	108
b(l≥200)	69	73	79	85	91	97	103	109	115	121

UNI5738 -DIN 960 - ISO 8765

d	M8x1	M10x1.25	M12x1.25	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x2	M27x2	M30x2
S	13	17	19	22	24	27	30	32	36	41	46
K	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15	17	18.7
b(l≤125)	22	26	30	34	38	42	46	50	54	60	66
b(125<l≤200)	28	32	36	40	44	48	52	56	60	66	72
b(l≥200)	41	45	49	53	57	61	65	69	73	79	85

Carriage Bolts

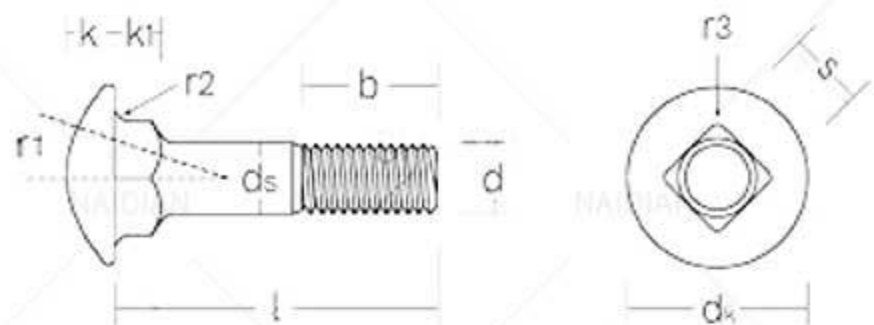


Carbon Steel



Stainless steel

ISO 8677 - DIN 603 - UNI 5732



d	M5	M6	M8	M10	M12	M16	M20
Pitch	0.8	1	1.25	1.5	1.75	2	2.5
b ($l \leq 125$)	16	18	22	26	30	38	46
b ($125 < l \leq 200$)	22	24	28	32	36	44	52
b ($l > 200$)	-	-	41	45	49	57	65
dk (max)	13.55	16.55	20.65	24.65	30.65	38.8	46.8
dk (min)	12.45	15.45	19.35	23.35	29.35	37.2	45.2
ds (max)	5	6	8	10	12	16	20
ds (min)	4.52	5.52	7.42	9.42	11.3	15.3	19.16
k1 (max)	4.1	4.6	5.6	6.6	8.75	12.9	15.9
k1 (min)	2.9	3.4	4.4	5.4	7.25	11.1	14.1
K (max)	3.3	3.88	4.88	5.38	6.95	8.95	11.05
k (min)	2.7	3.12	4.12	4.62	6.05	8.05	9.95
r1	10.7	12.6	16	19.2	24.1	29.3	33.9
r2 (max)	0.5	0.5	0.5	0.5	1	1	1
r3 (max)	0.75	0.9	1.2	1.5	1.8	2.4	3
S (max)	5.48	6.48	8.58	10.58	12.7	16.7	20.84
S (min)	4.52	5.52	7.42	9.42	11.3	15.3	19.16
l	16-200						

Square Head Bolt

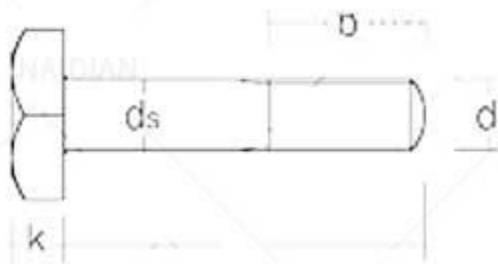


Carbon Steel



Stainless steel

DIN 21346



d	M16	M20	M24	M30
Pitch	2	2.5	3	3.5
b(l≤200)	36	43	53	-
b(l>200)	48	58	73	82
e	38.2	45.3	58	70.7
K	10	13	15	19
S	27	32	41	50

U Bolts

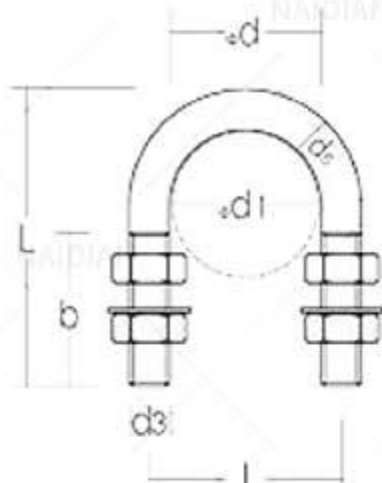
DIN3570



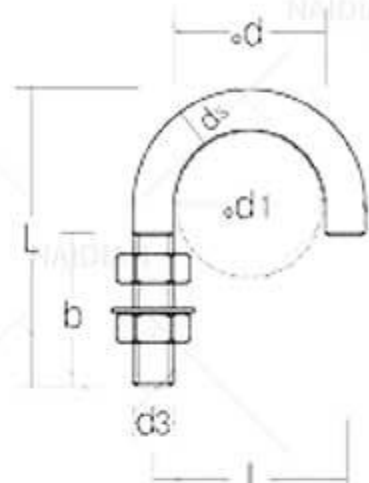
Carbon Steel



Stainless steel



TypeA



TypeB

d	30	38	46	52	64	82	94	120	148
d1	25-26.9	30-33.7	38-42.4	44.5-48.3	57-60.3	76.1	88.9	108-114.3	133-139.7
b	40	40	50	50	50	50	50	60	60
ds	10	10	10	10	12	12	12	16	16
d3	M10	M10	M10	M10	M12	M12	M12	M16	M16
L	70	76	86	92	109	125	138	-	-
L1	28	31	37	40	49	57	66	171	191
n	40	48	56	62	76	94	106	136	164

d	148	202	228	282	332	378	428	530
d1	133-139.7	191-193.7	216-219.7	267-273	318-323.9	355.6-368	406.4-419	508-521
b	60	60	70	70	70	70	70	70
ds	16	16	20	20	20	24	24	24
d3	M16	M16	M20	M20	M20	M24	M24	M24
L	-	-	-	-	-	-	-	-
L1	191	249	283	334	385	435	487	589
n	164	218	248	302	352	402	452	554

Cap Screw

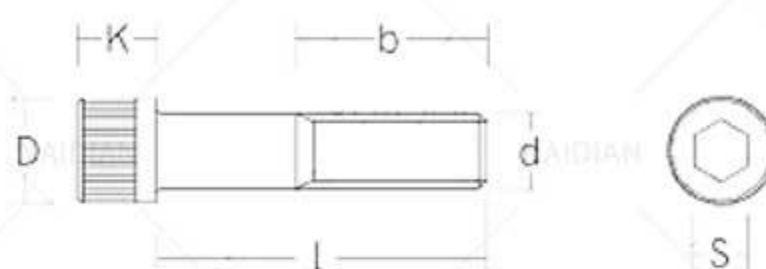


Carbon Steel



Stainless steel

UNI5931 - DIN 912 - ISO 4762



d	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
D	5.5	7	8.5	10	13	16	18	21	24	27	30
K	3	4	5	6	8	10	12	14	16	18	20
S	2.5	3	4	5	6	8	10	12	14	14	17
b	18	20	22	24	28	32	36	40	44	48	52
l	6-160										

d	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48
D	33	36	40	45	50	54	58	63	-	72
K	22	24	27	30	33	36	39	42	-	48
S	17	19	19	22	24	27	27	32	-	36
b	56	60	66	72	78	84	90	90	-	108
l	165-500									

UNI 9327-DIN 7984

d	M3	M4	M5	M6	M8	M10	M12	M16
D	5.5	7	8.5	10	13	16	18	24
K	2	2.8	3.5	4	5	6	7	8
S	2	1.5	3	4	5	7	8	12
b	12	14	16	18	22	26	30	38
l	6-100							

Countersunk Socket Head Screw

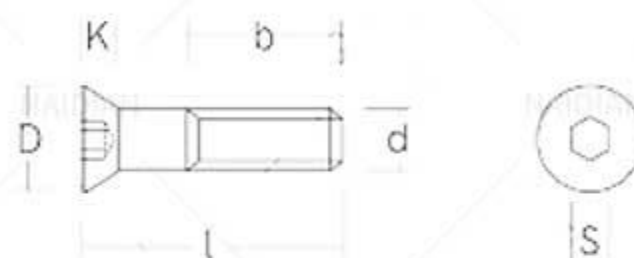


Carbon Steel



Stainless steel

UNI5933 - DIN 7991



d	M3	M4	M5	M6	M8	M10	M12	M14
D	6	8	10	12	16	20	24	27
K	1.7	2.3	2.8	4.4	4.4	5.5	6.5	7
S	2	2.5	3	5	5	6	8	10
b(l<125)	12	14	16	22	22	26	30	34
b(l<125≤200)	-	-	-	24	28	32	36	40
b(l<200)	-	-	-	-	-	45	49	55
l	6-200							

d	M16	M18	M20	M24	M30
D	30	33	36	39	-
K	7.5	8	8.5	14	-
S	10	12	12	14	-
b(l<125)	38	42	46	54	-
b(l<125≤200)	44	48	52	60	-
b(l<200)	57	61	65	73	-
l	6-200				

button head screw



Carbon Steel



Stainless steel

ISO7380



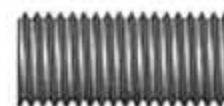
Finitura Superficiale



Zinc Plated



BlackOxide



Dacromet



Black Phosphated



Hot Dip Galvanized

d	M3	M4	M5	M6	M8	M10	M12
D	5.7	7.6	9.5	10.5	14	17.5	21
K	1.65	2.2	2.75	3.3	4.4	5.5	6.6
S	2	2.5	3	4	5	6	8
l	4-80						

Socket Set Screws

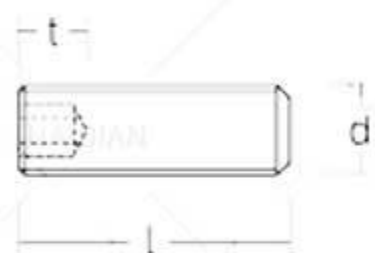


Carbon Steel



Stainless steel

ISO7380



Finitura Superficiale



Carbon Steel



Stainless steel



Brass

Finitura Superficiale



Plain



BlackOxide

d	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
S	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	6	8	10
t _{min.a}	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	5.6	6.4	7.2
t _{min.b}	1.5	1.7	2	2	2.5	3	3.5	5	6	8	9	10	11
l	2.5-200												

d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56
S	10	12	12	-	-	-	-	-	-	-	-	-	-
t _{min.a}	8	9	10	-	-	-	-	-	-	-	-	-	-
t _{min.b}	12	13.5	15	-	-	-	-	-	-	-	-	-	-
l	2.5-200												

Socket Set Screws

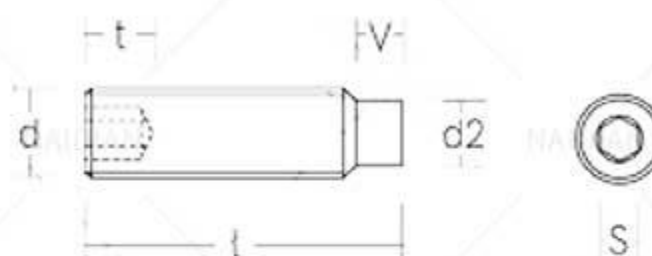


Carbon Steel



Stainless steel

UNI 5925 - DIN 915 - ISO 4028



Finitura Superficiale



Plain



BlackOxide

d	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
S	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10	12
V _{min.a}	0.4	0.5	0.63	0.75	1	1.25	1.5	2	2.5	3	3.5	4	4.5
V _{min.b}	0.8	1	1.25	1.5	2	2.5	3	4	5	6	7	8	9
d2	0.8	1	1.5	2	2.5	3.5	4	5.5	7	8.5	10	12	13
t _{min.a}	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	5.6	6.4	7.2
t _{min.b}	1.5	1.7	2	2	2.5	3	3.5	5	6	8	9	10	11
l	2.5-200												

d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56
S	10	12	12	-	-	-	-	-	-	-	-	-	-
V _{min.a}	5	5.5	6	-	-	-	-	-	-	-	-	-	-
V _{min.b}	10	11	12	-	-	-	-	-	-	-	-	-	-
d2	15	17	18	-	-	-	-	-	-	-	-	-	-
t _{min.a}	8	9	10	-	-	-	-	-	-	-	-	-	-
t _{min.b}	12	13.5	15	-	-	-	-	-	-	-	-	-	-
l	2.5-200												

Socket Set Screws

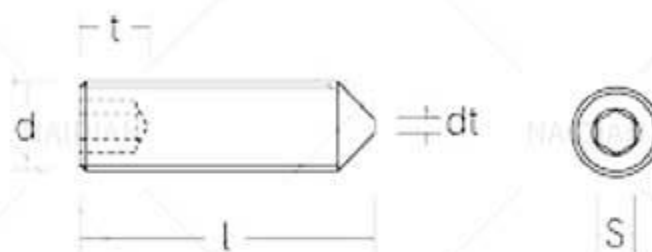


Carbon Steel



Stainless steel

UNI 5927 - DIN 914 - ISO 4027



Finitura Superficiale



Carbon Steel



Stainless steel



Brass

Finitura Superficiale



Plain



BlackOxide

d	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
S	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	6	8	10
t _{min.a}	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	5.6	6.4	7.2
t _{min.b}	1.5	1.7	2	2	2.5	3	3.5	5	6	8	9	10	11
dt _{max.}	0.16	0.20	0.25	0.3	0.4	0.5	1.5	2	2.5	3	4	4	5
l	2.5-200												

d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56
S	10	12	12	-	-	-	-	-	-	-	-	-	-
t _{min.a}	8	9	10	-	-	-	-	-	-	-	-	-	-
t _{min.b}	12	13.5	15	-	-	-	-	-	-	-	-	-	-
dt _{max.}	5	6	6	-	-	-	-	-	-	-	-	-	-
l	2.5-200												

Socket Set Screws

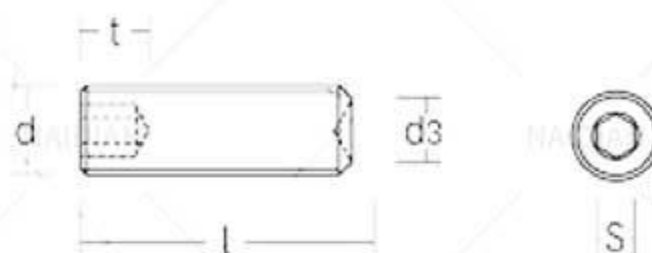


Carbon Steel



Stainless steel

UNI 5929 - DIN 916 - ISO 4029



Finitura Superficiale



Carbon Steel



Stainless steel



Brass

Finitura Superficiale



Plain



BlackOxide

d	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
S	0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	6	8	10
t _{min.a}	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	5.6	6.4	7.2
t _{min.b}	1.5	1.7	2	2	2.5	3	3.5	5	6	8	9	10	11
d ₃	0.8	1	1.2	1.4	2	2.5	3	5	6	7	8.5	10	11
l	2.5-200												

d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56
S	10	12	12	-	-	-	-	-	-	-	-	-	-
t _{min.a}	8	9	10	-	-	-	-	-	-	-	-	-	-
t _{min.b}	12	13.5	15	-	-	-	-	-	-	-	-	-	-
dt _{max.}	13	15	16	-	-	-	-	-	-	-	-	-	-
l	2.5-200												

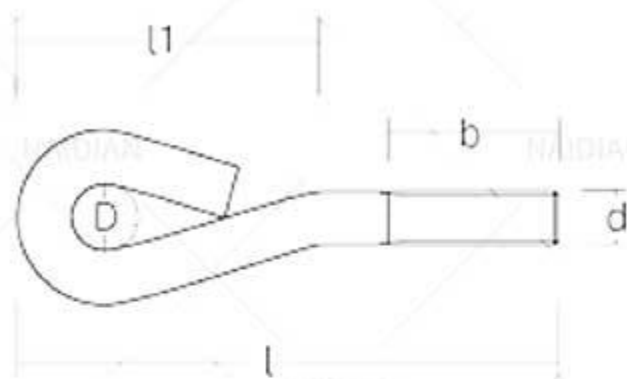
Foundation Bolts



Hot Dip Galvanized

Black Oxide

Type A



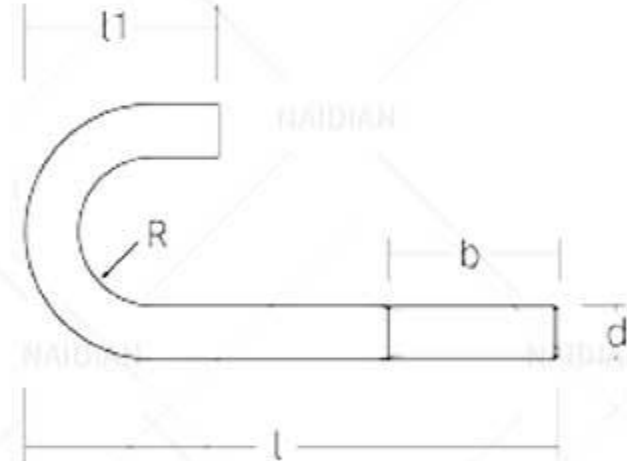
d	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48	M56	M64	M72
Pitch	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5	5.5	6	6
b	31	36	40	50	58	68	80	94	106	120	140	160	180
l1	46	65	82	93	127	139	192	244	261	302	343	385	430
D	10	15	20	20	30	30	45	60	60	70	80	90	100



Hot Dip Galvanized

Black Oxide

Type B



d	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48	M56	M64	M72
Pitch	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5	5.5	6	6
b	31	36	40	50	58	68	80	94	106	120	140	160	180
l1	48	60	72	96	120	144	180	216	252	288	336	385	432
D	16	20	24	32	40	48	60	72	84	96	112	128	144

Foundation Bolts



Hot Dip Galvanized



Black Oxide

Type C



d	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48	M56	M64	M72
Pitch	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5	5.5	6	6
b	31	36	40	50	58	68	80	94	106	120	140	160	180
l1	32	40	48	64	80	96	120	144	168	192	224	256	288
R	16	20	24	32	40	48	60	72	84	96	112	128	144

Threaded Rod

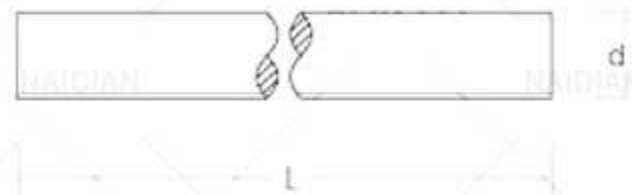


Carbon Steel



Stainless steel

DIN975



	d	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18
	fine pitch	-	-	-	-	-	-	-	1	1.25	1.5	1.5	1.5	1.5
P	fine pitch	-	-	-	-	-	-	-	-	1	1.25	-	-	-
	coarse pitch	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5
	L (±10)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

	d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52
	fine pitch	1.5	1.5	2	2	2	2	3	3	3	3	3	3
P	fine pitch	-	-	-	-	-	-	-	-	-	-	-	-
	coarse pitch	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5	5
	L (±10)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

DIN 976 - UNI 6547

	d	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22
	fine pitch	-	-	-	-	-	-	-	1	1.25	1.5	1.5	1.5	1.5	1.5	1.5
P	fine pitch	-	-	-	-	-	-	-	-	1	1.25	-	-	-	-	-
	coarse pitch	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5
	L	5-3000														

	d	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72
	fine pitch	2	2	2	2	3	3	3	3	3	3	4	4	4	4	6
P	fine pitch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	coarse pitch	3	3	3.5	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	6	-
	L	5-3000														

Coupling Nuts

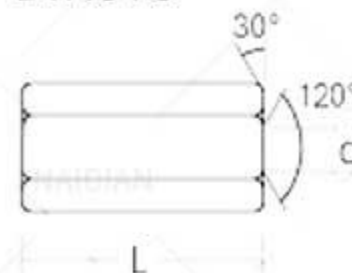
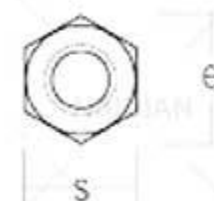


Carbon Steel



Stainless steel

DIN 6334
DIN975



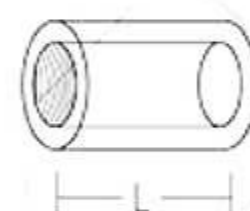
d	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36
Pitch	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5	4
s	10	13	17	19	22	24	27	30	32	36	41	46	50	55
L	18	24	30	36	42	48	54	60	66	72	81	90	99	108
e	11.05	14.38	18.9	21.1	24.49	26.75	29.56	33.53	35.03	39.98	45.2	50.85	55.37	60.79



Carbon Steel



Stainless steel



d	M5	M6	M8	M10	M12	M14	M16
dk	10	10	12	16	18	20	24
	8	8	20	20	25	30	30
L	10	10	25	25	30		
	15	15	30	30	40		
	20	20	40	40	50		

Hex Nuts

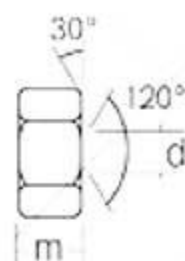
UNI5587



Carbon Steel



Stainless steel



d	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
Coarse Pitch	0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
Fine Pitch	0.35	0.5	0.5	0.75	0.75	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2
S	5.5	7	8	10	11	13	17	19	24	24	27	30	32	36
m	3	4	5	6	7	8	10	12	16	16	18	20	22	24

d	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72
Coarse Pitch	3	3.5	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	6	6
Fine Pitch	2	2	2	3	3	3	3	3	3	4	4	4	4	4
S	41	46	50	55	60	65	70	75	80	85	90	95	100	105
m	27	30	33	36	39	42	45	48	52	56	60	64	68	72

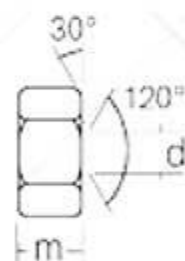
UNI 5588 - DIN 934



Carbon Steel



Stainless steel



d	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
Coarse Pitch	0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
Fine Pitch	0.35	0.5	0.5	0.75	0.75	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2
S	5.5	7	8	10	11	13	17	19	24	24	27	30	32	36
m	2.4	3.2	4	5	5.5	6.5	8	10	11	13	15	16	18	19

d	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72
Coarse Pitch	3	3.5	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	6	6
Fine Pitch	2	2	2	3	3	3	3	3	3	4	4	4	4	4
S	41	46	50	55	60	65	70	75	80	85	90	95	100	105
m	22	24	26	29	31	34	36	38	42	45	48	51	54	58

Hex Nuts

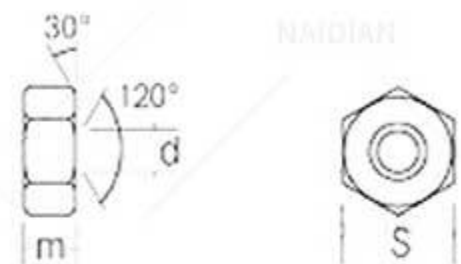
UNI 5589 - DIN 936



Carbon Steel



Stainless steel



d	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Coarse Pitch	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5
Fine Pitch	0.5	0.75	0.75	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2	2	2
S	8	10	11	13	17	19	22	24	27	30	32	36	41	46
m	3.5	4	4	5	6	7	8	8	9	9	10	10	12	12

d	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72	M76	M80
Coarse Pitch	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	6	6	6	6
Fine Pitch	2	3	3	3	3	3	3	4	4	4	4	4	4	4
S	50	55	60	65	70	75	80	85	90	95	100	105	110	115
m	14	14	16	16	18	18	20	22	24	26	26	28	30	32

UNI 5713 - DIN 6915



Carbon Steel



Stainless steel



d	M12	M14	M16	M18	M20	M22	M24	M27	M30
b	20	22	25	28	30	34	39	43.5	55.5
m	10	11	13	15	16	18	19	22	24
s	22	24	27	30	32	36	41	46	49

Nylon Hex Lock Nut

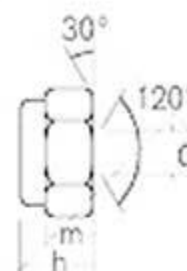


Carbon Steel



Stainless steel

DIN 982



d	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
Coarse Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5
Fine Pitch	-	-	-	-	1	1.25	1.25	1.5	1.5	1.5
S	5.5	7	8	10	13	17	19	22	24	27
h	-	6	6.3	8	9.5	11.5	14	16	18	20
m	-	3.2	4.4	4.9	6.44	8.04	10.37	12.1	14.1	15.1

d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45
Coarse Pitch	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5
Fine Pitch	1.5	2	2	2	2	2	3	3	3	3
S	30	32	36	41	50	50	55	60	65	70
h	22	25	28	30.8	36	36	40	42	45	48
m	16.9	18.1	20.2	21.6	26.4	26.4	28.8	31.2	33	36

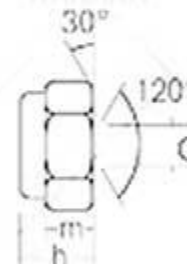
DIN 985



Carbon Steel



Stainless steel



d	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18
Coarse Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5
Fine Pitch	-	-	-	-	1	1.25	1.25	1.5	1.5	1.5
S	5.5	7	8	10	13	17	19	22	24	27
h	4	5	5	6	8	10	12	14	16	18.5
m	2.4	2.9	3.2	4	5.5	6.5	8	9.5	10.5	13

d	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45
Coarse Pitch	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5
Fine Pitch	1.5	2	2	2	2	2	3	3	3	3
S	30	32	36	41	46	50	55	60	65	70
h	20	22	27	27	30	33	36	39	42	45
m	14	15	17	17	19	22	25	27	29	32

Hexagon Flange Nuts

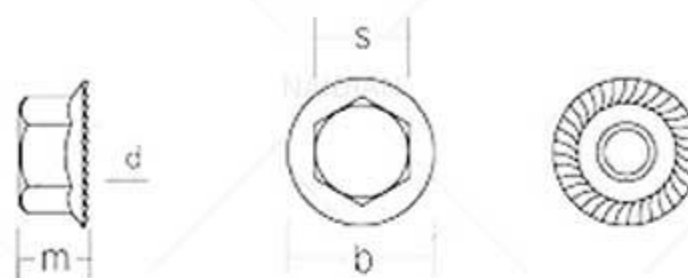
DIN 6923 - ISO 4161



Carbon Steel



Stainless steel



d	M4	M5	M6	M8	M10	M10	M12	M14	M16	M20
Coarse Pitch	0.7	0.8	1	1.25	1.5	1.5	1.75	2	2	2.5
S	7	8	10	13	15	17	18	21	24	30
m	4.5	5	6	8	10	10	12	14	16	20
b	9.9	11.8	14.2	17.9	21.8	21.8	26	29.9	34.5	42.8

Domed Cap Nuts

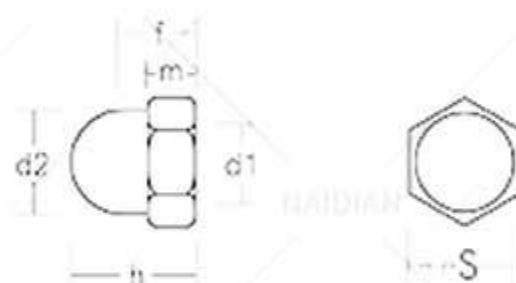
UNI 5721 -DIN 1587



Carbon Steel



Stainless steel



d	M4	M5	M6	M8	M10	M12	M14	M16	M20
Coarse Pitch	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5
S	7	8	10	13	17	19	22	24	30
h	8.5	11	13	16	19	22	25	28	34
d2	6.5	7.5	9.5	12.5	16	18	21	23	29
f	5	7	8	11	13	16	18	21	26
m	3.2	4	5	6.5	8	10	11	13	16

Hexagon Nuts With Clamping Part

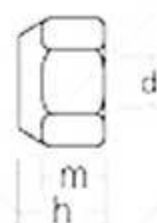


Carbon Steel



Stainless steel

DIN 980



d	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Coarse Pitch	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5
Fine Pitch	-	-	-	-	-	1.5	1.5	1.5	-	-	-	-	-
S	8	10	13	17	19	22	24	27	30	32	36	41	46
h	5	6	8	10	12	14	16	18	20	22	24	27	30

Wing Nuts

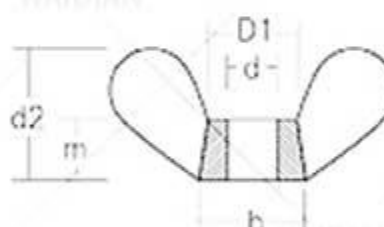
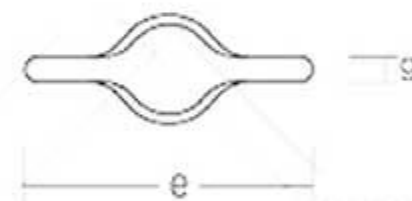


Carbon Steel



Stainless steel

UNI5448-TIPO A-DIN 315



d	M3	M4	M5	M6	M8	M10	M12	M14	M16
Coarse Pitch	0.5	0.5	0.7	0.8	1	1.25	1.5	1.75	2
D1	5.2	5.2	5.2	6.7	8.4	9.1	11	15	18
D2	8	8	8	10.3	12.7	13.8	16.5	22.5	26.6
e	17.6	17.6	17.6	22.5	27.8	30.3	36.2	49.4	58.3
g	1.6	1.6	1.6	2.1	2.5	2.8	3.3	4.5	5.2
h	8.6	8.6	8.6	11	13.6	14.8	17.7	24.1	28.5
m	3.5	3.5	3.5	4.1	5.1	5.6	6.8	9	10.7

Hexagon Slotted Castle Nuts

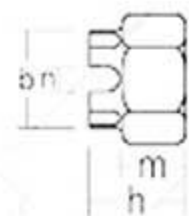


Carbon Steel



Stainless steel

UNI 5593 - DIN 935



d	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39
Coarse Pitch	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5	4	4
Fine Pitch	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2	2	2	2	3	3
S	13	17	19	22	24	27	30	32	36	41	46	50	55	60
b	-	-	17	19	22	25	28	30	34	38	42	46	50	55
n	2.5	2.8	3.5	3.5	4.5	4.5	4.5	5.5	5.5	5.5	7	7	7	7
m	6.5	8	10	11	13	15	16	18	19	22	24	26	29	31
h	9.5	12	15	16	19	21	22	26	27	30	33	35	38	40

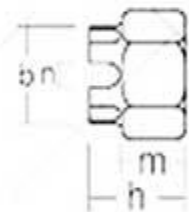


Carbon Steel



Stainless steel

UNI 5594



d	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39
Coarse Pitch	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5	4	4
Fine Pitch	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2	2	2	2	3	3
S	13	17	19	22	24	27	30	32	36	41	46	50	55	60
b	-	-	17	19	22	25	28	30	34	38	42	46	50	55
n	2.5	2.8	3.5	3.5	4.5	4.5	4.5	5.5	5.5	5.5	7	7	7	7
m	5	6	7	8	8	9	9	10	10	12	12	14	14	16
h	8	10	12	13	14	15	15	18	18	20	21	23	23	25

Flat Washers

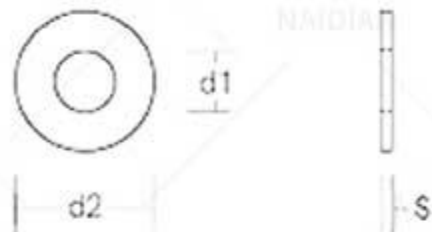


Carbon Steel



Stainless steel

UNI 6592 - DIN 125-A - IOS 7089



Φ	M3	M3	M4	M4	M5	M5	M6	M6	M7	M8	M8	M10	M10	M12	M12	M14	M16
d1	-	-	4.3	4.3	5.3	5.3	6.4	6.4	7.4	8.4	8.4	10.5	10.5	13	13	15	17
d2	6	7	8	9	9.5	10	11	12	14	14	16	18	20	20	24	28	30
s	-	-	0.8	0.8	1	1	1.6	1.6	1.6	1.6	1.6	2	2	2.5	2.5	2.5	3

Φ	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M58	M60	M64
d1	19	21	23	25	27	31	34	37	40	43	46	50	54	58	60	62	66
d2	34	37	39	44	50	56	60	66	72	78	85	92	98	105	110	110	115
s	3	3	3	4	4	4	5	5	6	7	7	8	8	9	9	9	9

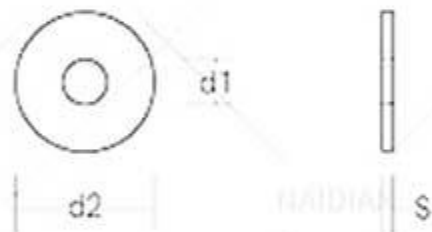


Carbon Steel



Stainless steel

UNI 6593 - DIN 9021 - IOS 7093



Φ	M3	M4	M4	M5	M5	M6	M6	M7	M7	M8	M8	M9	M9	M10	M10
d1	3.2	4.3	4.3	5.3	5.3	6.4	6.4	7.6	7.6	8.4	8.4	9.6	9.6	10.5	10.5
d2	9	12	16	15	20	18	24	21	28	24	32	27	38	30	40
s	0.8	1	1	1.2	1.2	1.6	1.6	2	2.5	32	6.5	2.5	2.5	2.5	2.5

Φ	M12	M12	M14	M14	M16	M16	M18	M18	M20	M20	M22	M24	M27	M30
d1	13	13	15	15	17	17	20	20	21	21.5	23	25	30	33
d2	37	48	36	44	50	64	56	72	60	80	66	72	81	90
s	3	3	3	3	3	3	4	4	4	5	5	5	6	6

Spring Lock Washers

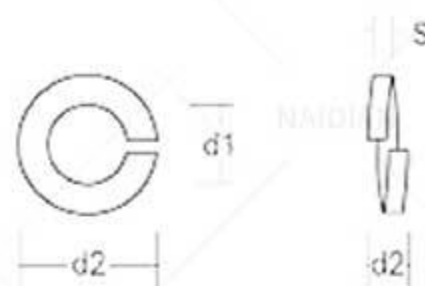
UNI 1751- TIPOA



Carbon Steel



Stainless steel



Φ	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16
d1	3.2	4.2	5.3	6.4	7.4	8.4	10.5	13	15	17
d2	5.8	7.3	8.9	11.4	12.4	14.4	17.5	21	24	27
s	0.8	0.9	1.2	1.6	2	2.2	2.5	3	3.5	3.5
h	1.6	1.8	2.4	3.2	3.2	4	4.4	5	6	7

Φ	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42
d1	19	21	23	25	28	31	34	37	40	43
d2	29	33	35	39	42	47	54	57	60	68
s	4	4	5	5	6	6	6	6	6	7
h	7	8	8	10	10	12	12	12	12	17

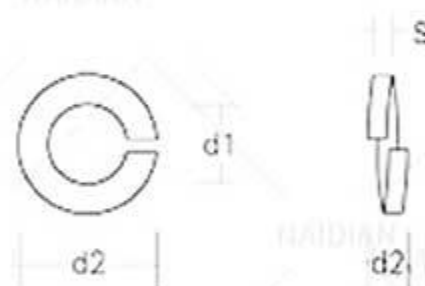
DIN 127 - TIPO B



Carbon Steel



Stainless steel



Φ	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18
d1	3.1	4.1	5.1	6.1	7.1	8.1	10.2	12.2	14.2	16.2	18.2
d2	6.2	7.6	9.2	11.8	12.8	14.8	18.1	21.1	24.1	27.4	29.4
s	0.8	0.9	1.2	1.6	1.6	2	2.2	2.5	3	3.5	3.5
h	1.6	1.8	2.4	3.2	3.2	4	4.4	5	6	7	7

Φ	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48
d1	20.2	22.5	24.5	27.5	30.5	33.5	36.5	39.5	43	46	49
d2	33.6	35.9	40	43	48.2	55.2	58.2	61.2	66	69	72
s	4	4	5	5	6	6	6	6	7	7	7
h	8	8	10	10	12	12	12	12	13	13	13

Serrated Lock Washers

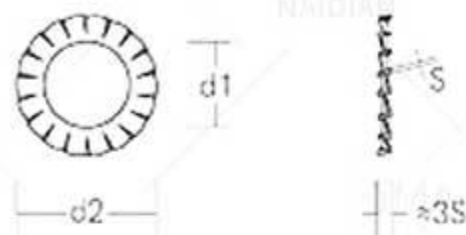


Carbon Steel



Stainless steel

UNI 8842-A - DIN 6798-A



d	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
d1	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	12.5	14.5	16.5	19	21	23	25
d2	6	7	8	10	11	12.5	15	18	20.5	24	26	30	33	36	38
s	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1	1	1.2	1.4	1.4	1.5	1.5
min. number of teeth	9	10	11	11	12	14	14	16	16	18	18	18	20	20	20

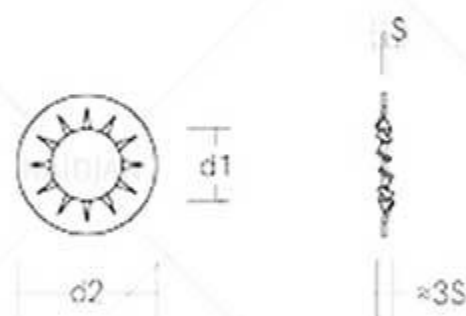


Carbon Steel



Stainless steel

UNI 8842-J - DIN 6798-J



d	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
d1	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	12.5	14.5	16.5	19	21	23	25
d2	6	7	8	10	11	12.5	15	18	20.5	24	26	30	33	36	38
s	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1	1	1.2	1.4	1.4	1.5	1.5
min. number of teeth	7	8	8	8	9	10	10	12	12	14	14	14	16	16	16

Anchor



Wedge Anchor

size: M6-M24



Anchor Bolt

size: M5-M20



Drop in Anchor

size: M6-M20



Cut Anchor

size: M6-M20

Other



Lag Screw

size: M4-M20



Double Head Bolt

size: M10-M56



Dowel screw

size: M4-M10



Hanger bolt

size: M4-M10



Roofing bolt

size: M4-M8

Packaging & Shipping



Brown box



White box



Color box

About delivery

For hex bolt orders with a total order of less than 30 tons, if there are no special circumstances, we will ship within 20 days after ordering

Packaging details

1. We have several sizes of packing dimensions, can be 20kg or 25kg per carton.
2. For large orders, we can design specific sizes of boxes and cartons.
3. Normal Packing: small boxes into cartons.
4. Can provide special packings as middle east clients requests.

colorful packaging
Expand display image



Company Profile

Our company "Naidian" is an advanced manufacturing enterprise with import and export qualifications, specializing in the production of fasteners. We have introduced advanced production equipment from Taiwan and sophisticated processing techniques, subsequently acquiring a series of advanced professional screw production lines. Our main products include screws, rivets, nails, anchor bolts, bolts, nuts, ring clamps, washers, and hardware tools. The annual output exceeds 10,000 tons. We serve multiple industries and sectors both domestically and internationally. At the same time, our company is dedicated to the research and development of stainless steel screws, producing screws with higher precision and quality, and has established long-term and good business relationships with customers from Europe, America, Southeast Asia, the Middle East, and other countries.

Adhering to the principles of "quality first, honest management, and customer priority", our company has strict management, superior production quality, high detection accuracy, and high service standards.

We have obtained the ISO certification for the international quality management system and have also acquired a series of certificates such as ISO45001. Therefore, the quality is guaranteed. With over 10 years of export experience, we are capable of meeting the needs and expectations of our customers and are striving to achieve a win-win situation. We sincerely welcome you to join us!

Company Advantage

- 1) Best Service :We provide 24 hours online service for dealing with customer's inquiries and solve customer's problems at the first time.
- 2) Professional Team :
Our team has more than 20 years of experience. All products are developed and designed by ourselves.
- 3) Technical Section :Technical support is provided by professional technicians to ensure that the drawings are precise and accurate.
- 4) Factory direct sale :
You can get direct factory price from us.

Product Advantages

- 1) High Quality
- 2) Timely Delivery Guaranteed
- 3) Model Customization
- 4) Technical Controlling
- 5) Precision Machining
- 6) Complete model



Hebei Naidian New Materials Co., Ltd

Airport Road Bridge West Section, Qiaodong Office, Shahe City, Xingtai City, Hebei Province (within the premises of Hebei Rolling Mill Bearing Co., Ltd.)

Phone/Fax: 086 15033091958

Mobile/WhatsApp/WeChat: 086 15033091958

Email: admin@hebeind.com

www.hebeind.com