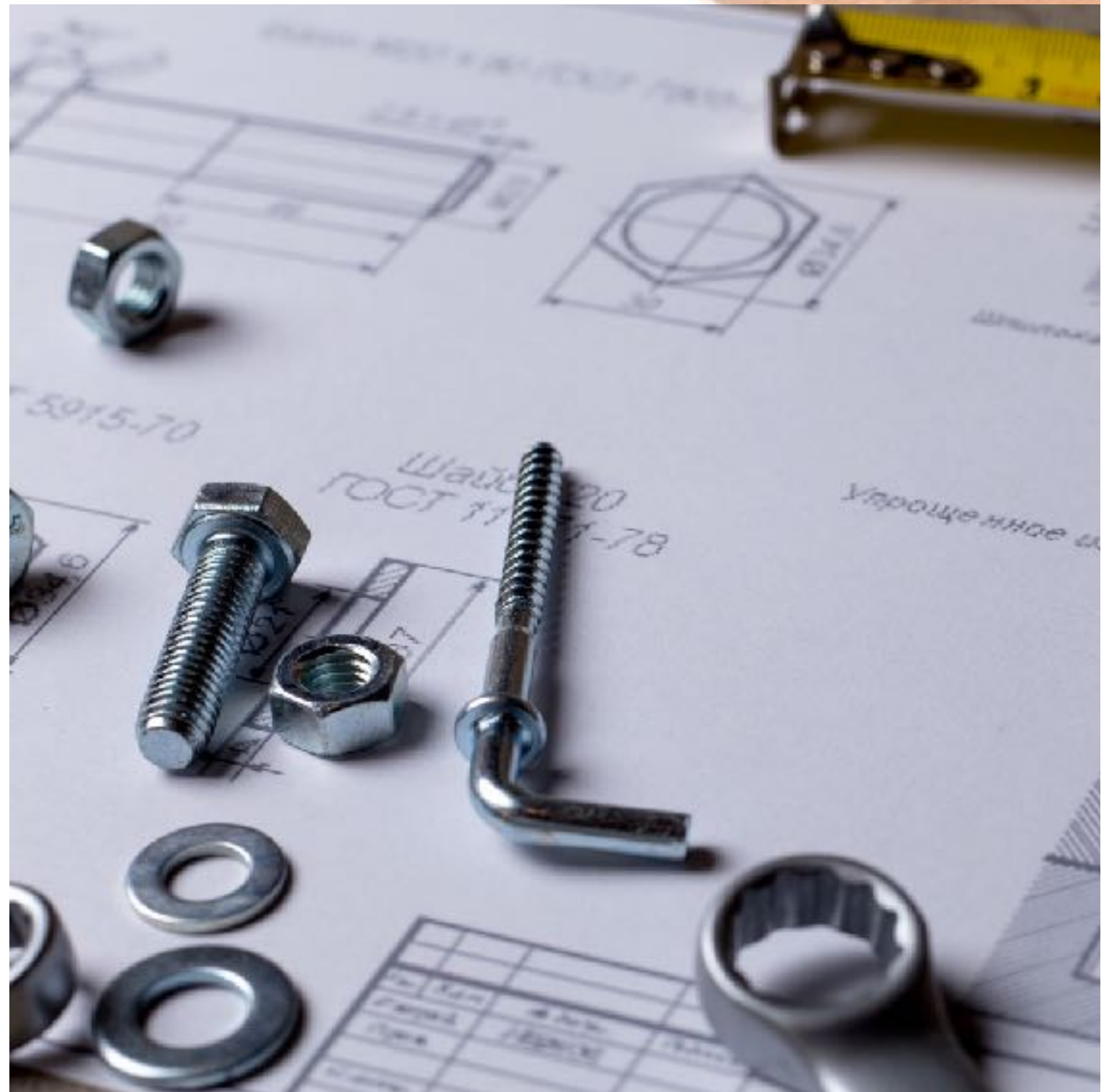
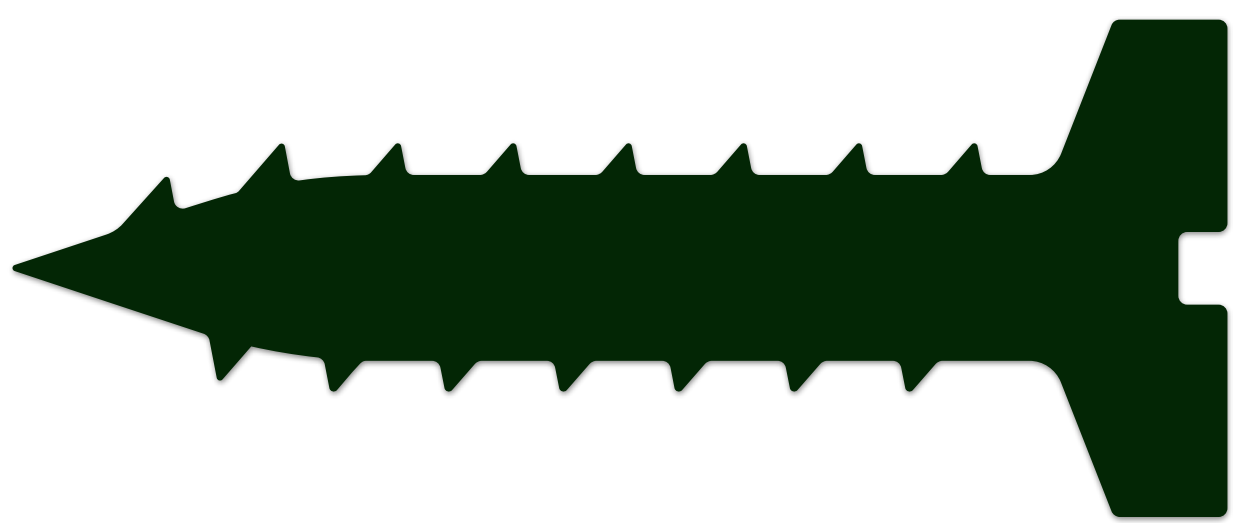


BOLTS & NUTS CATALOGUE

by AMORNMONGKOL Co.,Ltd.

amorn
mongkol





PRODUCT GROUPS

MATERIALS

CARBON STEEL
STAINLESS STEEL
BRASS
COPPER
Etc.

STANDARD

ISO	Etc.
DIN	
ANSI	
JIS	
ASTM	

FINISH

BLACK	DACROMET
PLAIN	HOT-DIP
ZINC	GALVANIZE
NIKEL	COMPLY RoHS
CHROMIUM	

BOLT & SCREW

- Bolt ทกเหลี่ยม สี่เหลี่ยม หัวผ่า
- Eye Bolt | U Bolt
- Thumb Screw | Wing Screw
- Stud | Thread Rod
- Special Bolt

SOCKET BOLT & SET SCREW

- สกรูหัวจม
- เกลียวตัวหนอน

NUT

- น็อตทกเหลี่ยม สี่เหลี่ยม
- Cap Nut | Welding Nut
- Castle Nut
- Eye Nut | Lock Nut | Wing Nut
- Special Nut

TAPPING SCREW

- สกรูเกลียวปล่อย สกรูปลายสว่าน
- กรูหัวต่างๆ หลายประเภท

WASHER

- Plain Washer
- Lock Washer | Spring Washer
- Wave Washer
- E-Ring | C-Ring
- Retaining Ring

B O L T S
&
S C R E W S

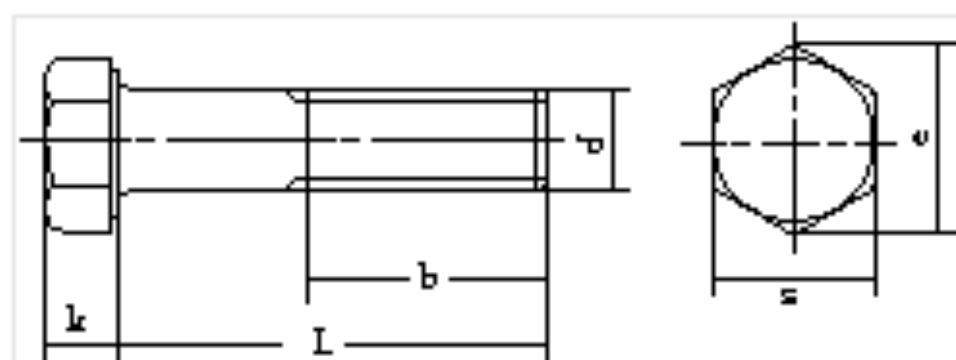


Hexagon Head Bolts

สกรูหัวหกเหลี่ยม(เกลียวครึ่ง)

DIN 931 Grade A & B HEXAGON HEAD BOLTS

Thread Size: M4-M30 Length(L):
25-300mm

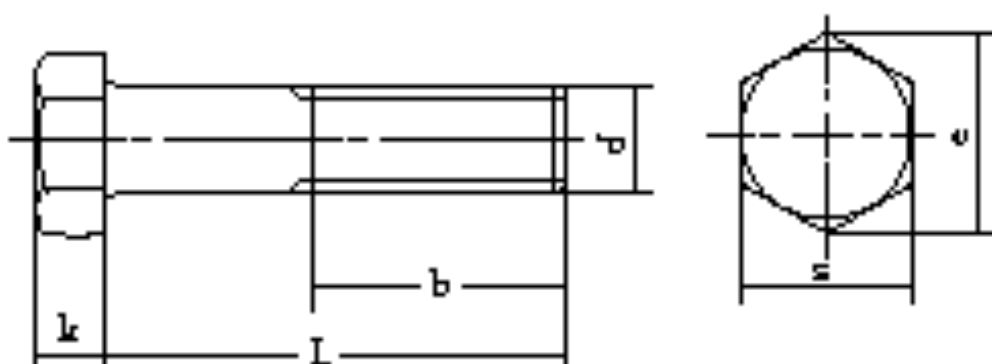


Thread Size	Pitch	b			k	e		S	L
		1)	2)	3)		GradeA	GradeB		
M 4	0.7	14	-	-	2.8	7.66	-	7	25-40
M 5	0.8	16	22	-	3.5	8.79	8.63	8	25-50
M 6	1.0	18	24	-	4.0	11.05	10.89	10	30-60
M 8	1.25	22	28	-	5.3	14.38	14.20	13	35-80
M 10	1.50	26	32	45	6.4	18.90	18.72	17	40-100
M 12	1.75	30	36	49	7.5	21.10	20.88	19	45-120
M 14	2.0	34	40	53	8.8	24.49	23.91	22	50-140
M 16	2.0	38	44	57	10.0	26.75	26.17	24	55-160
M 18	2.5	42	48	61	11.5	30.14	29.56	27	65-180
M 20	2.5	46	52	65	12.5	33.53	32.95	30	65-200
M 22	2.5	50	56	69	14.0	35.72	35.03	32	70-220
M 24	3.0	54	60	73	15.0	39.98	39.55	36	80-240
M 27	3.0	60	66	79	17.0	45.20	45.20	41	90-260
M 30	3.5	66	72	85	18.7	50.85	50.85	46	90-300

Note: 1) L<125mm; 2)125<L<200mm; 3) L>200mm

DIN 601 Grade C HEXAGON HEAD BOLTS

Thread Size: M5-M36 Length(L):
25-300mm



Thread Size	Pitch	b			k	e	S	L
		1)	2)	3)				
M 5	0.8	16	22	35	3.5	8.63	8	25-50
M 6	1.0	18	24	37	4.0	10.89	10	30-60
M 8	1.25	22	28	41	5.3	14.20	13	35-80
M 10	1.50	26	32	45	6.4	18.72	17	40-100
M 12	1.75	30	36	49	7.5	20.88	19	45-120
M 16	2.0	38	44	57	10	26.17	24	55-160
M 20	2.5	46	52	65	12.5	32.95	30	65-200
M 24	3.0	54	60	73	15.0	39.55	36	80-240
M 27	3.0	60	66	79	17.0	45.20	41	90-300
M 30	3.5	66	72	85	18.7	50.85	46	90-300
M 36	4.0	78	84	97	22.5	60.79	55	110-300

Note: 1) L<125mm; 2)125<L<200mm; 3) L>200mm

MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

STAINLESS STEEL

STANDARD

DIN 931/601/960/6914

ISO 4014/4016

IFI C-6/C-8/E-34

GB 5780/5782

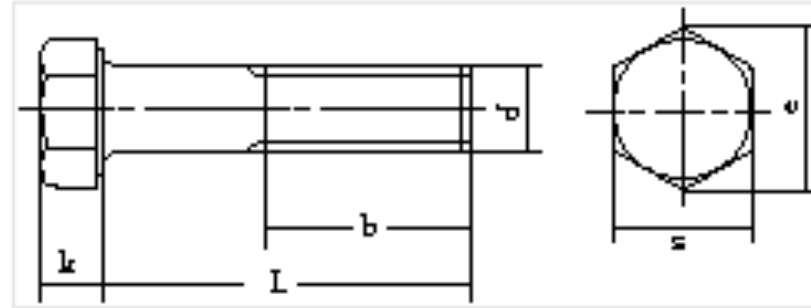
GB 5784/5785

Hexagon Head Bolts

สกรูหัวหกเหลี่ยม(เกลียวครึ่ง)

DIN 960 Grade A & B HEXAGON BOLTS WITH FINE THREADS

Thread Size: M8X1-M36X3
Length(L): 35-300mm



Thread Size	b			k	e		S	L
	1)	2)	3)		GradeA	GradeB		
M8X1.00	22	28	41	5.3	14.38	14.20	13	35-100
M10X1.25	26	32	45	6.4	17.77	17.59	16	40-150
M10X1.00					18.90	18.72	17	
M12X1.50	30	36	49	7.5	20.03	19.85	18	45-180
M12X1.25					21.10	20.88	19	
M14X1.50	34	40	53	8.8	23.35	22.78	21	50-200
M16X1.50	38	44	57	10.0	26.75	26.17	24	55-200
M18X2.00	42	48	61	11.5	30.14	29.56	27	65-200
M18X1.50								
M20X2.00	46	52	65	12.5	33.53	32.95	30	65-200
M20X1.50								
M22X2.00	50	56	69	14.0	35.72	35.03	32	70-200
M22X1.50					37.72	37.29	34	
M24X2.00	54	60	73	15.0	39.98	39.55	36	80-200
M24X1.50								
M27X2.00	60	66	79	17.0	-	45.20	41	90-200
M30X2.00	66	72	85	18.7	-	50.85	46	90-260
M36X3.00	78	84	97	22.5	-	60.79	55	110-300

Note: L<125mm; 2)125<L<200mm; 3) L>200mm



MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

STAINLESS STEEL

STANDARD

DIN 931/601/960/6914

ISO 4014/4016

IFI C-6/C-8/E-34

GB 5780/5782

GB 5784/5785

DIN 6914

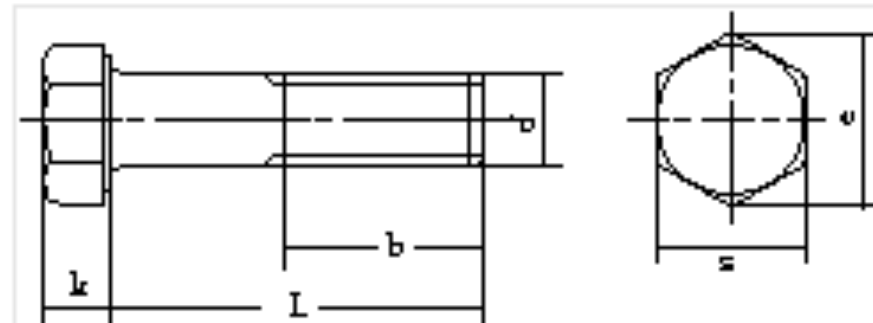
HEXAGON BOLTS

With Large Widths Across

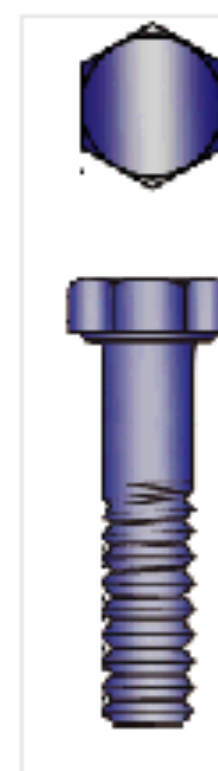
Flats For

High-tensile Bolting in Steel

Structures Thread Size: M5-M36 Length(L): 25-300mm



Thread Size	b	k	e	S	L
M12	21	8	23.91	22	30-40
M12	23				45-95
M16	26	10	29.56	27	40-70
M16	28				75-130
M20	31	13	35.03	32	45-85
M20	33				90-155
M22	32	14	39.55	36	50-85
M22	34				90-165
M24	34	15	45.20	41	60-85
M24	37				90-195
M27	37	17	50.85	46	70-95
M27	39				100-200
M30	40	19	55.37	50	75-95
M30	42				100-200
M36	48	23	66.44	60	85-100
M36	50				105-200

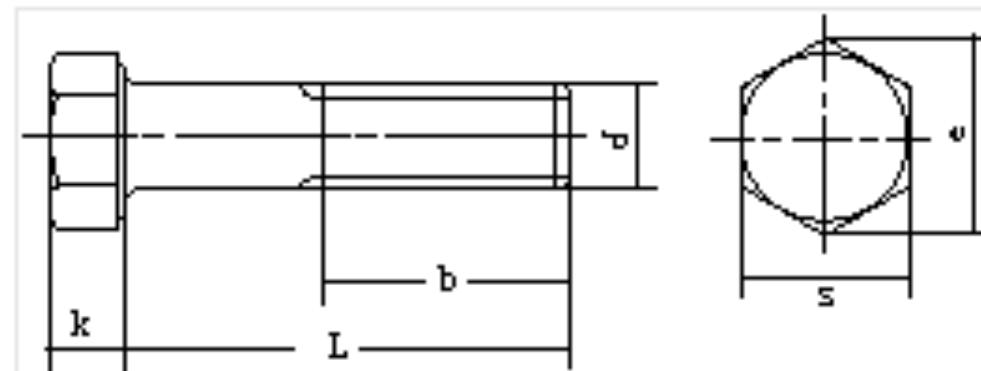


Hexagon Head Bolts

สกรูหัวหกเหลี่ยม(เกลียวครึ่ง)

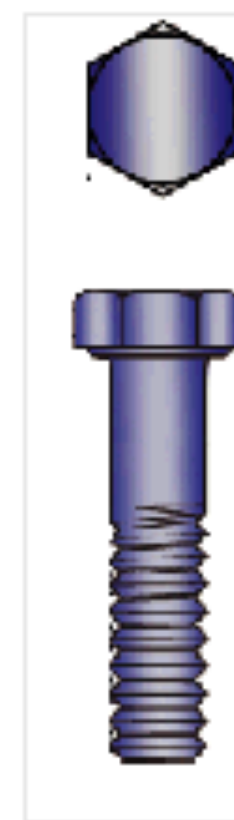
ISO4014 Grade A & B HEXAGON HEAD BOLTS

Thread Size: M5-M36 Length(L):
35-300mm



Thread Size	Pitch	b			k	e		S	L
		1)	2)	3)		GradeA	GradeB		
M 5	0.8	16	-	-	3.5	8.79	-	8	25-50
M 6	1.0	18	-	-	4.0	11.05	-	10	30-60
M 8	1.25	22	-	-	5.3	14.38	-	13	35-80
M 10	1.50	26	-	-	6.4	17.77	-	16	40-100
M 12	1.75	30	-	-	7.5	20.03	-	18	45-120
M 16	2.0	38	44	-	10.0	26.75	26.17	24	55-160
M 20	2.5	46	52	-	12.5	33.53	32.95	30	65-200
M 24	3.0	54	60	73	15.0	39.98	39.56	36	80-240
M 30	3.5	66	72	85	18.7	-	50.85	46	90-300
M 36	4.0	-	84	97	22.5	-	60.79	55	110-300

Note: L<125mm; 2)125<L<200mm; 3) L>200mm



MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

STAINLESS STEEL

STANDARD

DIN 931/601/960/6914

ISO 4014/4016

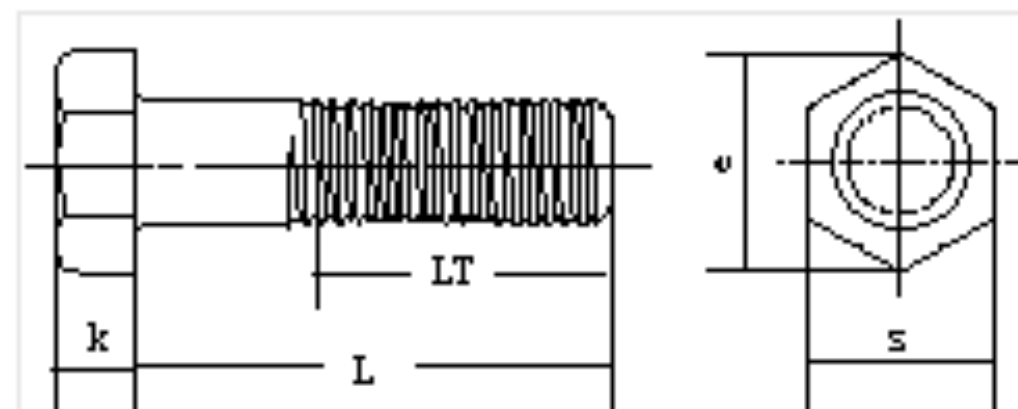
IFI C-6/C-8/E-34

GB 5780/5782

GB 5784/5785

IFI C-6(A-6) HEX BOLTS

Thread Size: 1/4-1 1/4in
Length(L): 1/2-12 1/2in



Thread Size	Thread per inch	k	e	S	LT		L
					L<6 in	L>6 in	
1/4	20	11/64	0.484	7/16	0.750	1.000	1/2-4
5/16	18	7/32	0.552	1/2	0.875	1.125	5/8-4
3/8	16	1/4	0.620	9/16	1.000	1.250	3/4-4
7/16	14	19/64	0.687	5/8	1.125	1.375	7/8-4
1/2	13	11/32	0.826	3/4	1.250	1.500	1-4
5/8	11	27/64	1.033	15/16	1.500	1.750	1 1/4-6
3/4	10	1/2	1.240	1 1/8	1.750	2.000	1 1/2-6
7/8	9	37/64	1.447	1 5/16	2.000	2.250	1 3/4-10
1	8	43/64	1.653	1 1/2	2.250	2.500	2-10
1 1/8	7	3/4	1.859	1 11/16	2.500	2.750	2 1/4-11 1/4
1 1/4	7	27/32	2.066	1 7/8	2.750	3.000	2 1/2-12 1/2



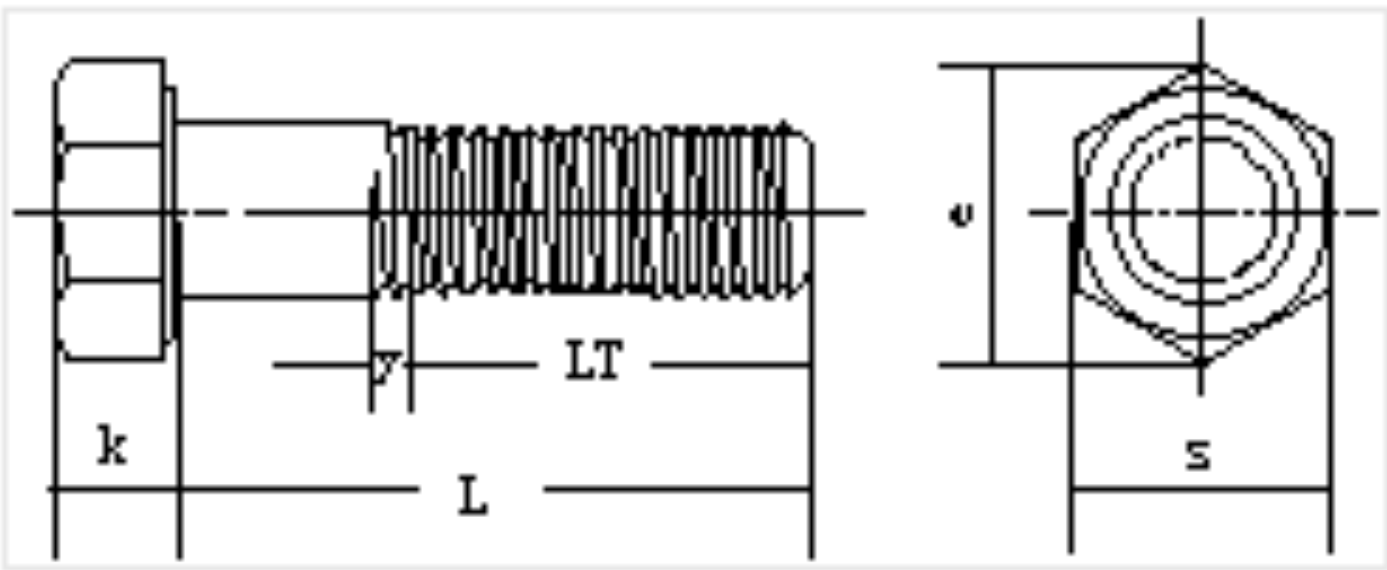
Hexagon Head Bolts

สกรูหัวหกเหลี่ยม(เกลียวครึ่ง)

IFI E-34
HEAVY HEX STRUCTURAL
BOLTS

Thread Size: 1/2-1 1/2in

Length(L): 1-8in



Nominal Size	S	e	k	y	LT	L
1/2	7/8	1.010	5/16	0.19	1.00	1-4
5/8	1 1/16	1.227	25/64	0.22	1.25	1 1/4-6 1/4
3/4	1 1/4	1.443	15/32	0.25	1.38	1 1/2-7 1/2
7/8	1 7/16	1.660	35/64	0.28	1.50	1 3/4-8 3/4
1	1 5/8	1.876	39/64	0.31	1.75	2-8
1 1/8	1 13/16	2.093	11/32	0.34	2.00	2 1/4-8
1 1/4	2	2.309	25/32	0.38	2.00	2 1/2-8
1 3/8	2 3/16	2.526	27/32	0.44	2.25	2 3/4-8
1 1/2	2 3/8	2.742	15/16	0.44	2.25	3-8



MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

STAINLESS STEEL

STANDARD

DIN 931/601/960/6914

ISO 4014/4016

IFI C-6/C-8/E-34

GB 5780/5782

GB 5784/5785

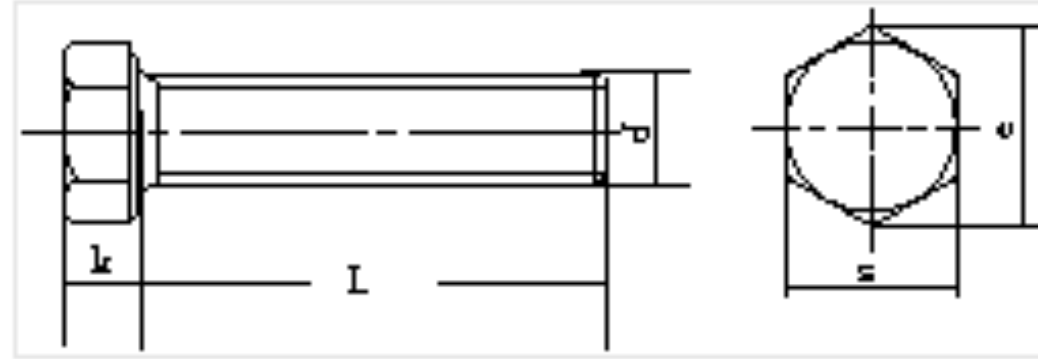


Hexagon Head Bolts

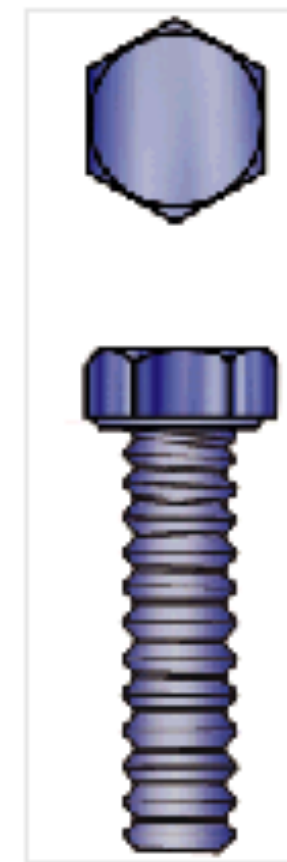
สกรูหัวหกเหลี่ยม(เกลียวเต็ม)

DIN 933 Grade A & B HEXAGON HEAD SCREWS

Thread Size: M4-M30
Length(L): 8-100mm



Thread Size	Pitch	k	e		S	L
			GradeA	GradeB		
M4	0.7	2.8	7.66	7.50	7	8-40
M5	0.8	3.5	8.79	8.63	8	8-40
M6	1.0	4.0	11.05	10.89	10	8-50
M8	1.25	5.3	14.38	14.20	13	12-60
M10	1.50	6.4	18.90	18.72	17	16-60
M12	1.75	7.5	21.1	20.88	19	20-80
M14	2.0	8.8	24.49	23.91	22	25-80
M16	2.0	10.0	26.75	26.17	24	30-100
M18	2.5	11.5	30.14	29.56	27	30-100
M20	2.5	12.5	33.53	32.95	30	40-100
M22	2.5	14.0	35.72	35.03	32	50-100
M24	3.0	15.0	35.98	39.55	36	50-100
M27	3.0	17.0	45.20	45.20	41	60-100
M30	3.5	18.7	50.85	50.85	46	70-100



MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

STAINLESS STEEL

STANDARD

DIN 933/558/961

ISO 4017/4018

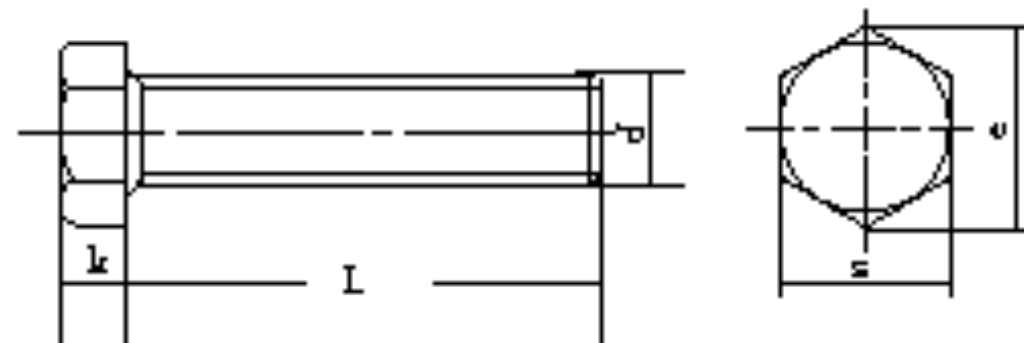
B.S 4190

IFI C-10

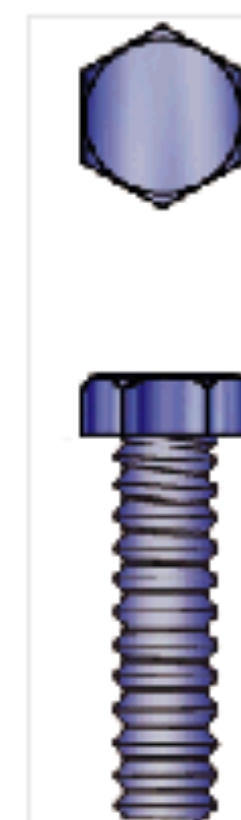
GB 5781/5783/5786

DIN 558Grade C HEXAGON HEAD SCREWS

Thread Size: M5-M36
Length(L): 10-100mm



Thread Size	Pitch	k	e	S	L
M5	0.8	3.5	8.63	8	10-40
M6	1	4	10.89	10	12-50
M8	1.25	5.3	14.2	13	16-65
M10	1.5	6.4	18.72	17	16-80
M12	1.75	7.5	20.88	19	20-100
M16	2	10	26.17	24	25-100
M20	2.5	12.5	32.95	30	30-100
M24	3	15	39.55	36	35-100
M30	3.5	18.7	50.85	46	40-100
M36	4	22.5	60.79	55	50-100

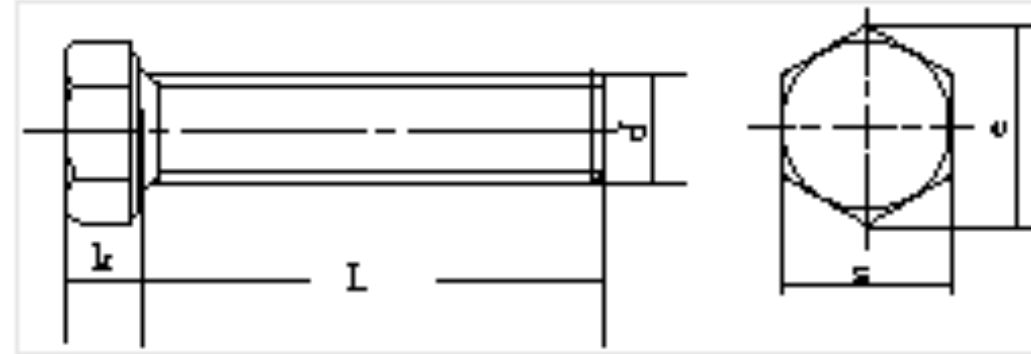


Hexagon Head Bolts

สกรูหัวหกเหลี่ยม(เกลียวเต็ม)

DIN 961 Grade A & B HEXAGON SCREWS WITH FINE THREADS

Thread Size: M8X1-M36X3
Length(L): 8-200mm



Thread Size	k	e		S	L
		GradeA	GradeB		
M8X1	5.3	14.38	14.20	13	8-120
M10X1.25	6.4	17.77	17.59	16	8-150
M10X1.00		18.90	18.72	17	
M12X1.50	7.5	20.03	19.85	18	10-180
M12X1.25		21.1	20.88	19	
M14X1.50	8.8	23.35	22.78	21	10-200
M16X1.50	10.0	26.75	26.17	24	12-200
M18X2.00	11.5	30.14	29.56	27	18-200
M18X1.50					
M20X2.00	12.5	33.53	32.95	30	18-200
M20X1.50					
M22X2.00	14.0	35.72	35.03	32	18-200
M22X1.50		37.72	37.29	34	
M24X2.00	15.0	39.98	39.55	36	20-200
M24X1.50					
M27X2	17.0	-	45.20	41	20-200
M30X2	18.7	-	50.85	46	30-200
M36X3	22.5	-	60.79	55	35-200



MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

STAINLESS STEEL

STANDARD

DIN 933/558/961

ISO 4017/4018

B.S 4190

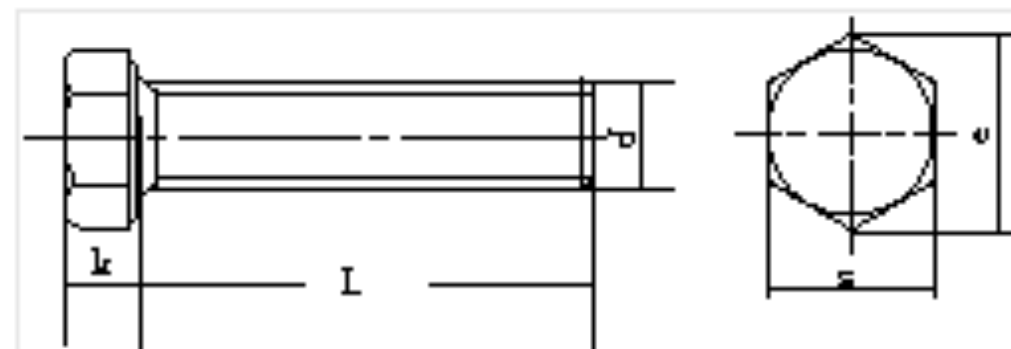
IFI C-10

GB 5781/5783/5786

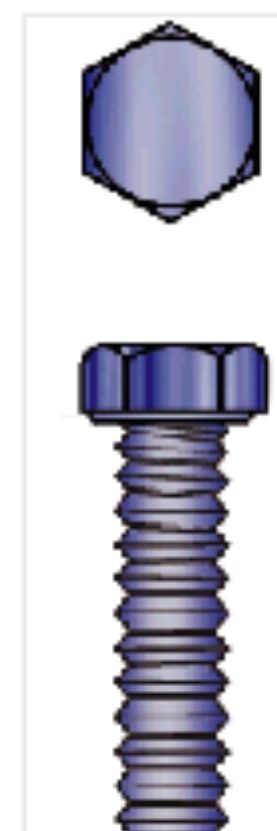
ISO 4017 Grade A & B HEXAGON HEAD SCREWS

Thread Size: M5-M36

Length(L): 8-100mm



Thread Size	Pitch	k	e		S	L
			GradeA	GradeB		
M5	0.8	3.5	8.79	-	8	8-40
M6	1.0	4.0	11.05	-	10	8-50
M8	1.25	5.3	14.38	-	13	12-60
M10	1.50	6.4	17.77	-	16	16-60
M12	1.75	7.5	20.03	-	18	20-80
M16	2.0	10.0	26.75	26.17	24	30-100
M20	2.5	12.5	33.53	32.95	30	40-100
M24	3.0	15.0	39.98	39.55	36	50-100
M30	3.5	18.7	-	50.85	46	70-100
M36	4.0	22.5	-	60.79	55	80-100

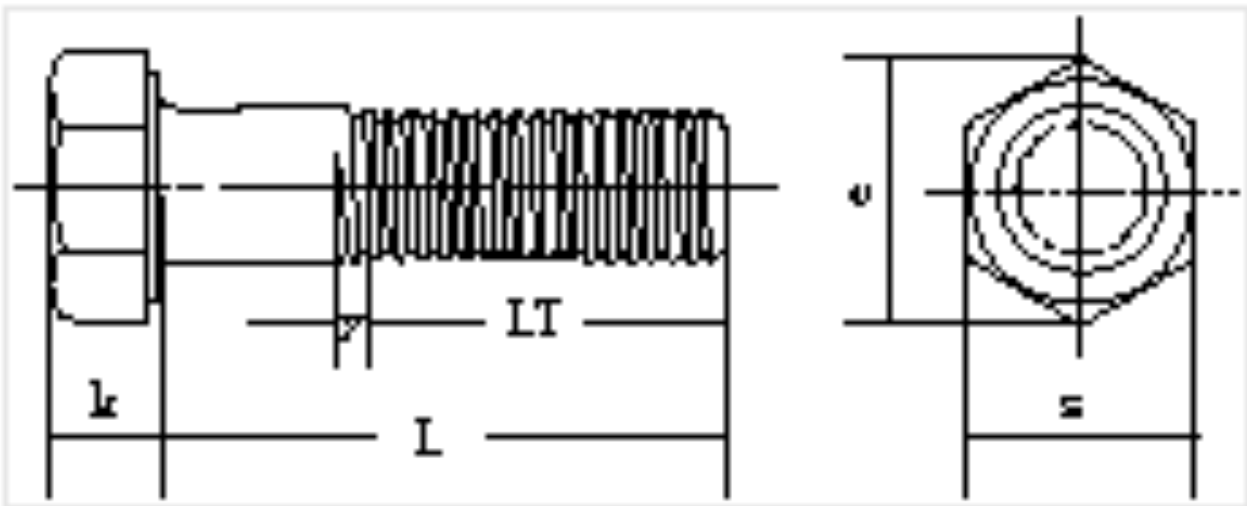


Hexagon Head Bolts

สกรูหัวหกเหลี่ยม(เกลียวเต็ม)

IFIC-10(A-10)
HEX CAP SCREWS

Thread Size: 1/4-1 1/4 in Length(L): 1/2-12 1/2 in



Thread Size	Thread per inch	k	e	S	LT		y	L
					L< 6in	L>6in		
1/4	20	5/32	0.488	7/16	0.750	1.000	0.250	1/2-4
5/16	18	13/64	0.557	1/2	0.875	1.125	0.278	5/8-4
3/8	16	15/64	0.628	9/16	1.000	1.250	0.312	3/4-4
7/16	14	9/32	0.698	5/8	1.125	1.375	0.357	7/8-4
1/2	13	5/16	0.840	3/4	1.250	1.500	0.385	1-4
5/8	11	25/64	1.051	15/16	1.500	1.750	0.455	1 1/4-6
3/4	10	15/32	1.254	1 1/8	1.750	2.000	0.500	1 1/2-6
7/8	9	35/64	1.465	1 5/16	2.00	2.250	0.556	1 3/4-10
1	8	39/64	1.675	1 1/2	2.250	2.500	0.625	2-10
1 1/8	7	11/16	1.859	1 11/16	2.500	2.750	0.714	2 1/4-11 1/4
1 1/4	7	25/32	2.066	1 7/8	2.750	3.000	0.714	2 1/2-12 1/2



MATERIALS

CARBON STEEL
 4.8/8.8
 10.9/12.9
 STAINLESS STEEL

STANDARD

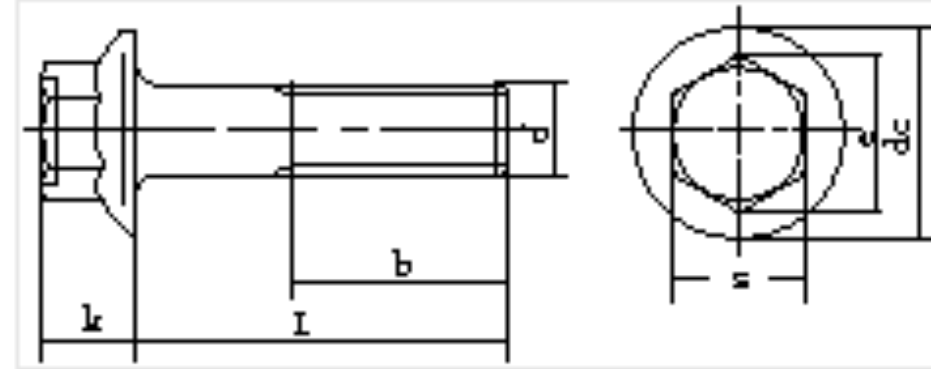
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 ISO 4017/4018
 B.S 4190
 IFI C-10
 GB 5781/5783/5786



Hex Flange Bolts

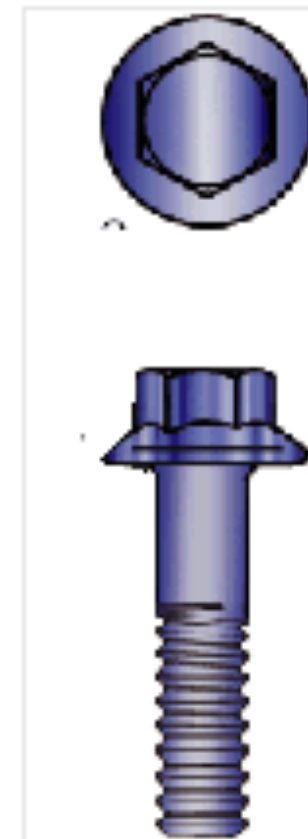
สกรูหัวจานหกเหลี่ยม

DIN6921
HEXAGON FLANGE BOLTS
 Thread Size: M5-M20
 Length(L):10-200mm



Thread Size	Pitch	b			dc	k	e	s	L
		1)	2)	3)					
M5	0.8	16	-	-	11.8	5.4	8.71	8	10-50
M6	1	18	-	-	14.2	6.6	10.95	10	12-60
M8	1.25	22	28	-	18	8.1	14.26	13	16-80
M10	1.5	26	32	-	22.3	9.2	16.51	5	20-100
M12	1.75	30	36	-	26.6	11.5	17.62	16	25-120
M14	2	34	40	-	30.5	12.8	19.86	18	30-140
M16	2	38	44	57	35	14.4	23.15	21	35-160
M20	2.5	46	52	65	43	17.1	29.87	27	40-200

Note: 1) $L < 125\text{mm}$; 2) $125 < L < 200\text{mm}$; 3) $L > 200\text{mm}$



MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

Stainless Steel

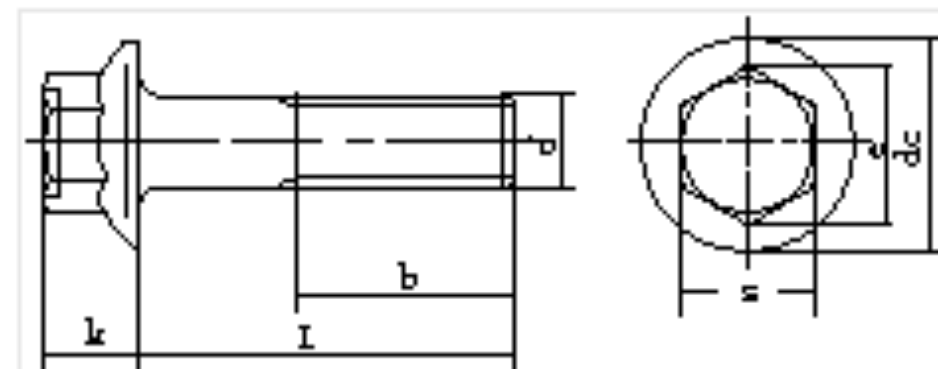
STANDARD

DIN 6921

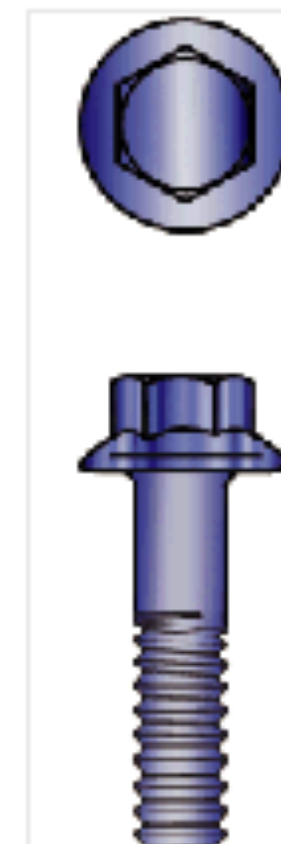
IFI C-28

GB 5787 / 5788

IFI C-28
HEX FLANGE BOLTS
 Thread Size: 1/4-3/4in
 Length(L):1/2-6 in

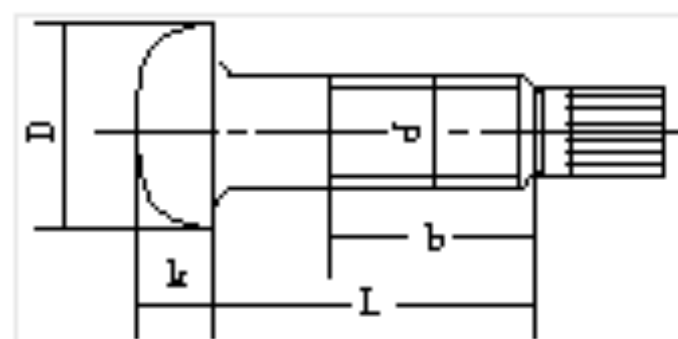


Thread Size	Thread per inch	k	dc	s	e	L
1/4	20	0.28	0.56	3/8	0.409	1/2-4
5/16	18	0.32	0.68	1/2	0.548	5/8-4
3/8	16	0.39	0.81	9/16	0.618	3/4-4
7/16	14	0.46	0.93	5/8	0.685	7/8-4
1/2	13	0.51	1.07	3/4	0.825	7/8-4
9/16	12	0.57	1.19	13/16	0.895	1-6
5/8	11	0.62	1.33	15/16	1.034	1-6
3/4	10	0.73	1.59	1-1/8	1.234	1 1/4-6

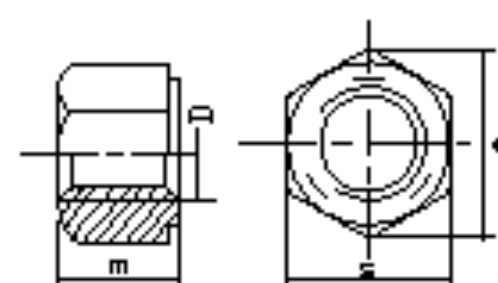
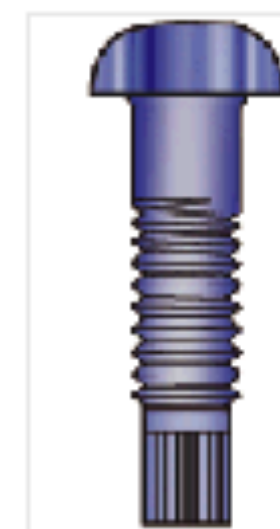


High Strength Bolt & Nuts

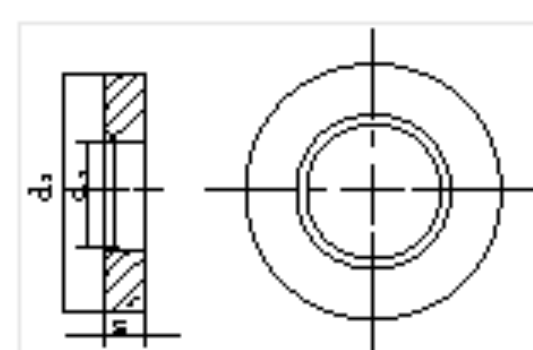
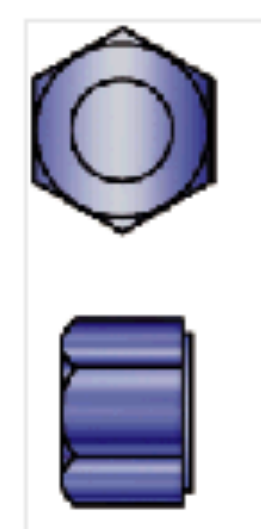
Mechanical Properties							
Bolts	Tensile strength σ b		Yield strength σ 0.2	Englongation		Reduction of area	
	N/mm2		N/mm2	Ó%		¥%	
	980.7-1176.8		>882.6	>14		>40	
Nuts	SP N/mm2			Hardness			
	>1040			HRB95-HRC35			
Washers	Hardness						
	HRC35-45						
Average value of clamping force KN				Standard deviation			
M16	M20	M22	M24	M16	M20	M22	M24
107.9-130.4	168.7-203.0	207.9-251.1	242.2-292.2	<8.33	<12.75	<15.69	<18.63



D	16	20	22	24
D min	27	34	38.5	43
K	10	13	14	15
L	40-60	65-120	45-70	75-140
b	30	35	35	40



D	16	20	22	24
S	27	32	36	41
m	16	20	22	24
e	31.5	37	41.6	47.3



d1	17	21	23	25
d2	32	40	44	48
s	4.5	4.5	6	6



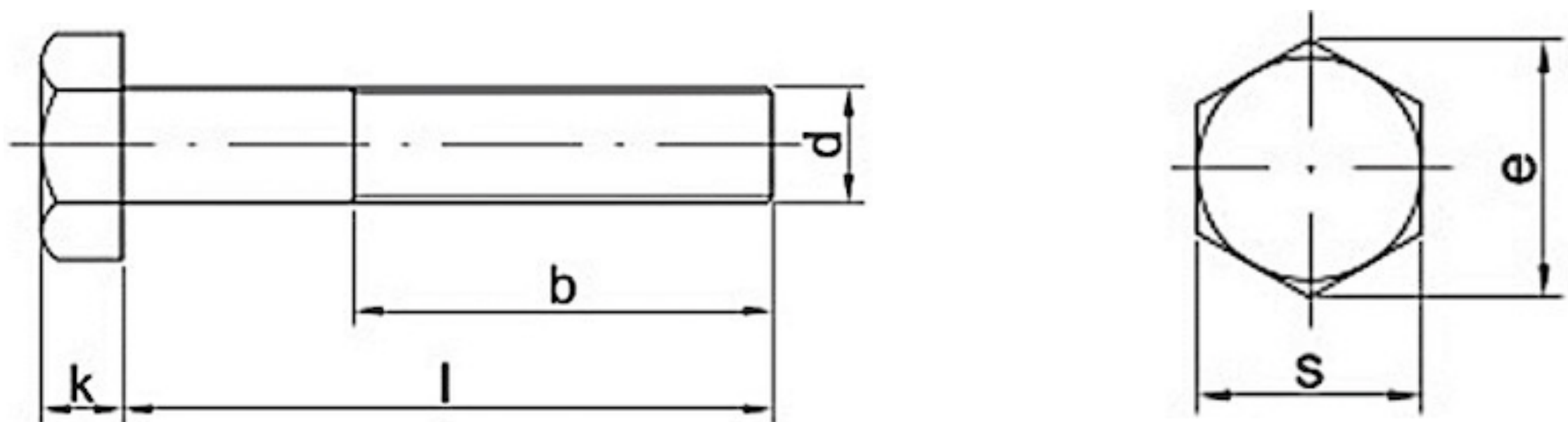
DETAILS

JSS 1109 - 1981

SETS OF TORSHEAR
TYPE HIGH STRENGTH
BOLT HEXAGON NUTS
AND PLAIN WASHER
FOR STEEL STRUCTURES

Special Bolt

HEX BOLT M24 x 260/60



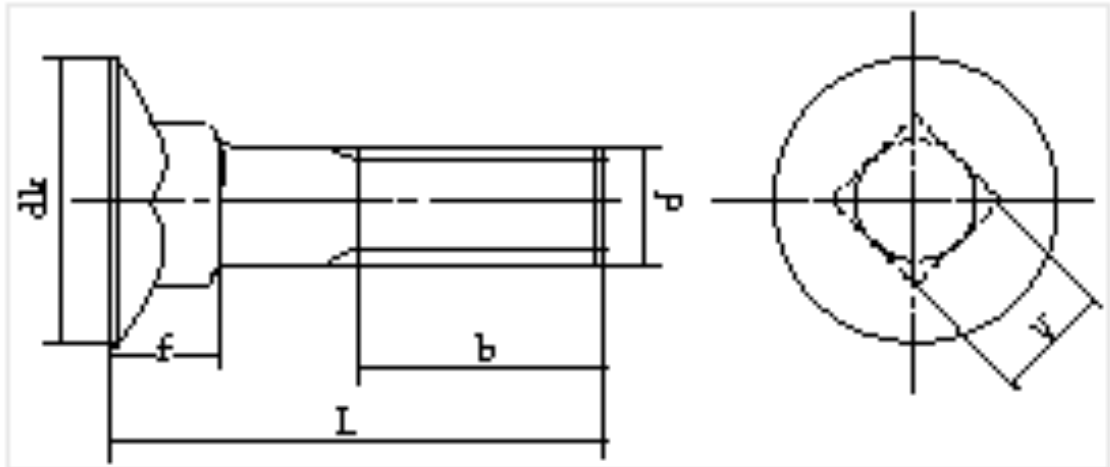
Dimension (d x l)	b (mm)	k (mm)	s (mm)	e (mm)
M24 x 260	60	15	36	39.55

MATERIAL
STEEL

Flat Countersunk Square Neck Bolts

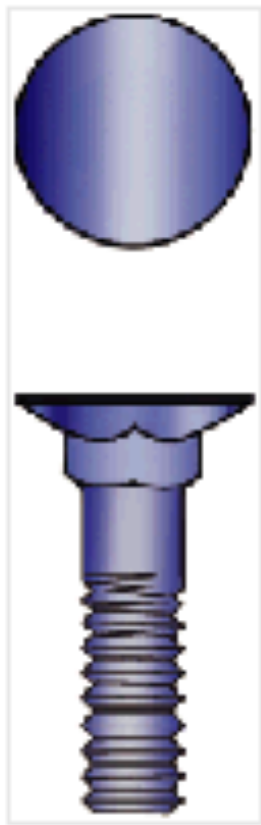
สกรูหัวกลมคอเหลี่ยม

DIN 605
FLAT COUNTERSUNK
SQUARE NECK BOLTS
WITH LONG SQUARE
Thread Size: M6-M10
Length(L):30-200mm



Thread Size	Pitch	b			dk	f	v	L
		1)	2)	3)				
M6	1	18	24	-	16.55	7.45	6.48	30-60
M8	1.25	22	28	41	20.65	9.45	8.58	30-80
M10	1.5	26	32	45	24.65	11.55	10.58	40-100

Note: 1) L<125mm; 2)125<L<200mm; 3)L>200mm



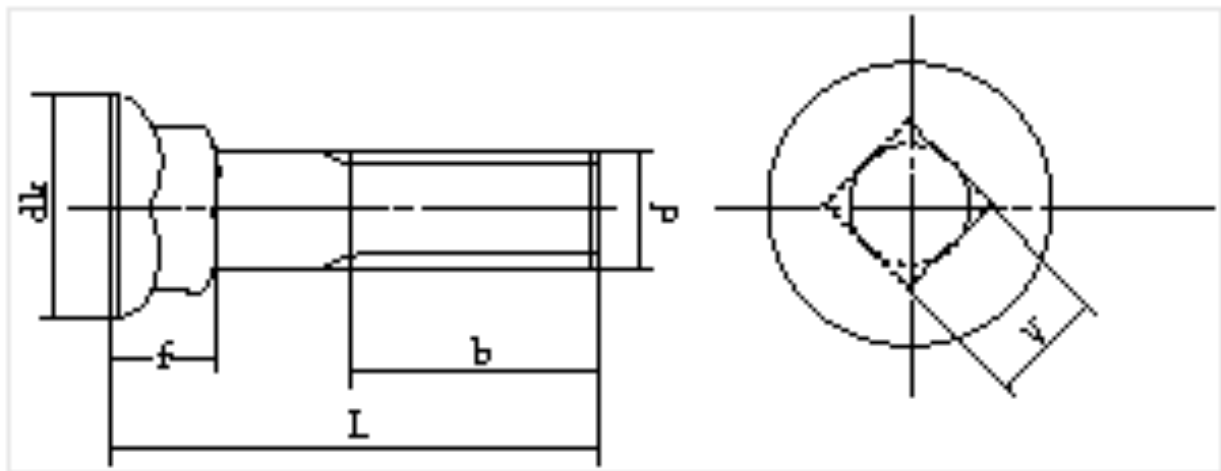
MATERIALS

CARBON STEEL
4.8/8.8

STANDARD

DIN 605 / 608
GB 10

DIN 608
FLAT
COUNTERSUNK
SQUARE NECK
BOLTS
WITH SHORT
SQUARE
Thread Size: M10-M12
Length(L):25-50mm



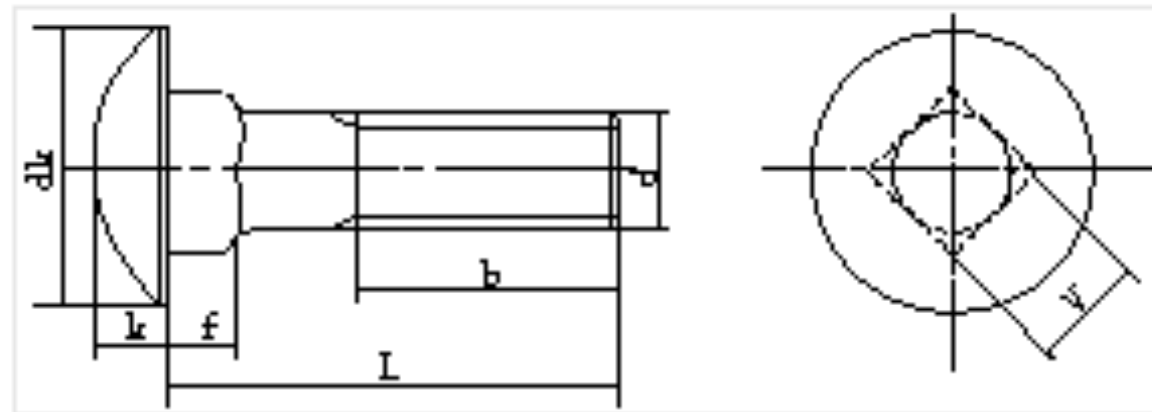
Thread Size	Pitch	b	dk	f	v	L
M10	1.5	26	19.65	8.45	10.58	25-50
M12	1.75	30	24.65	11.05	12.70	25-50



Mushroom Head Square Neck Bolts

สกรูหัวกลม (หัวเห็ด)

DIN603
MUSHROOM HEAD
SQUARE NECK BOLTS
Thread Size: M6-M12
Length(L):16-100mm



MATERIALS

CARBON STEEL
4.8/8.8

Thread Size	Pitch	b			dk	f	k	v	L
		1)	2)	3)					
M6	1.00	18	24	-	16.55	4.6	3.88	6.48	16-80
M8	1.25	22	28	41	20.65	5.6	4.88	8.58	20-100
M10	1.50	26	32	45	24.65	6.6	5.38	10.58	20-100
M12	1.75	30	36	49	30.65	8.75	6.95	12.70	30-100

Note: 1) L<125mm; 2)125<L<200mm; 3)L>200mm



STANDARD

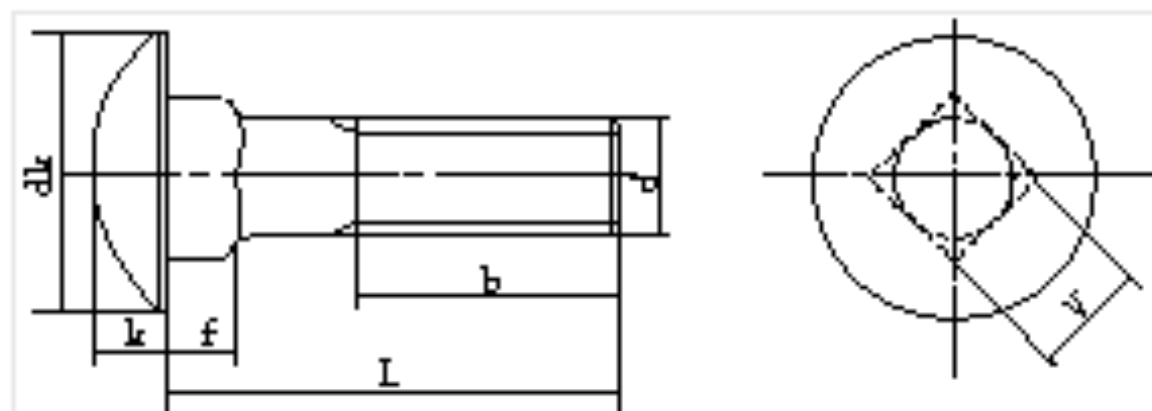
DIN 603

IFI C-40

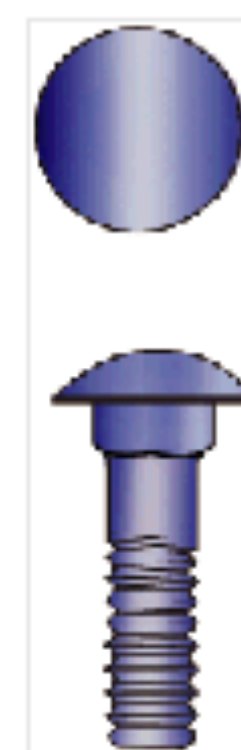
B.S.

GB 12 / 14

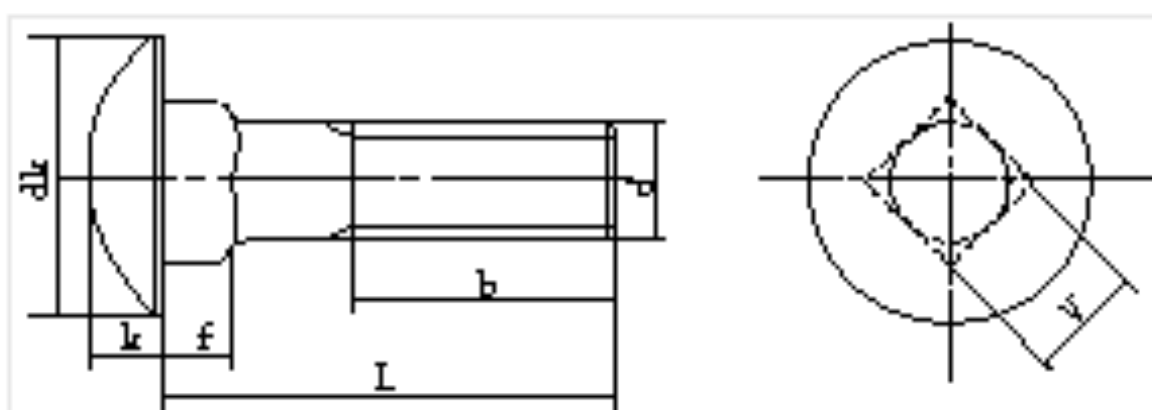
B.S.
ROUND HEAD
SQUARE NECK BOLTS
Thread Size: 1/4-3/8in
Length(L):1 1/2-4 in



Thread Size	Thread per inch	dk	f	k	v	L
1/4	20	0.562	0.188	0.125	0.250	1 1/2-4
5/16	18	0.703	0.234	0.156	0.312	1 3/4-4
3/8	16	0.844	0.281	0.188	0.375	2-4



IFI C-40
ROUND HEAD
SQUARE NECK BOLTS
Thread Size: 1/4-3/8in
Length(L):1 1/2-4 in



Thread Size	Thread per inch	dk	f	k	v	L
1/4	20	0.594	0.156	0.145	0.260	1 1/2-4
5/16	18	0.719	0.187	0.176	0.324	1 3/4-4
3/8	16	0.844	0.219	0.208	0.388	2-4

Note: 1) L<125mm; 2)125<L<200mm; 3) L>200mm

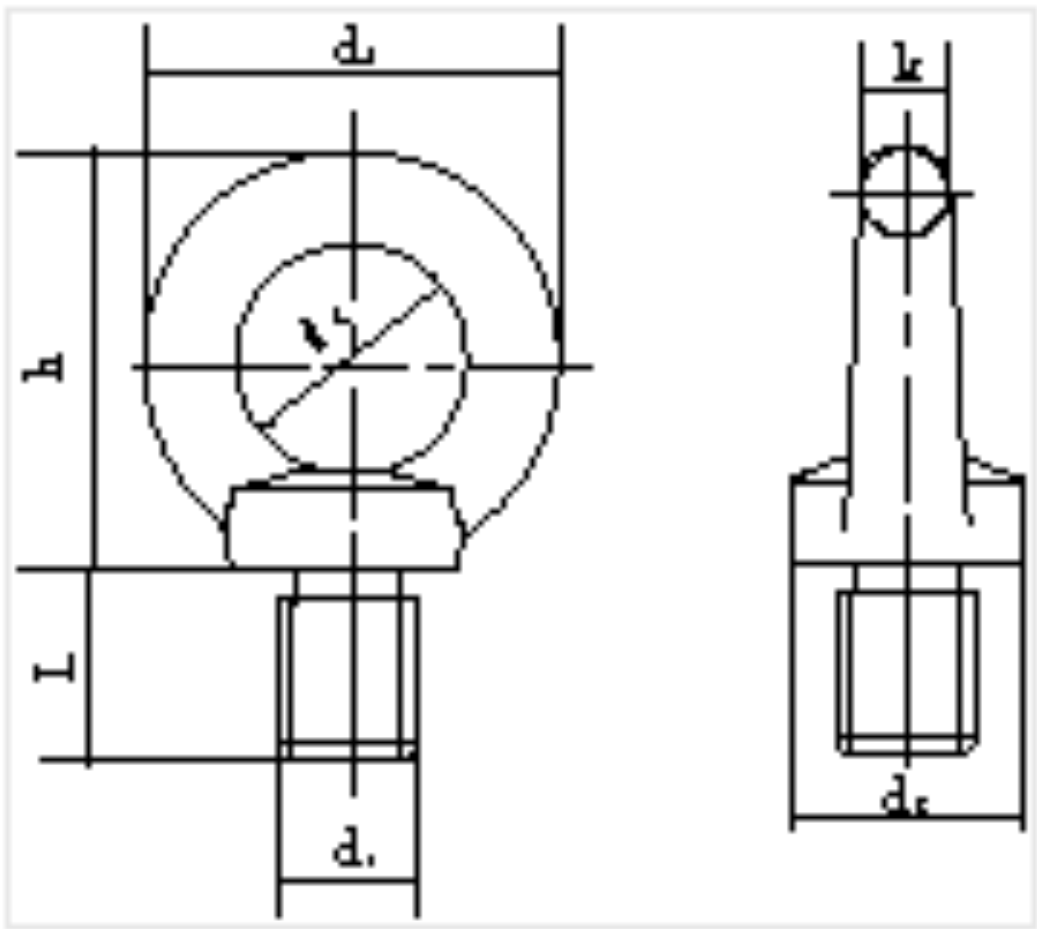


amorn
mongkol

Lifting Eye Bolts

อายโบลท์

DIN580
LIFTING EYE BOLTS
Thread Size: M8-M36 Length(L):13-54mm



d1	d2	d3	d4	h	k	L
M8	20	36	20	36	8	13
M10	25	45	25	45	10	17
M12	30	54	30	53	12	20.5
M16	35	63	35	62	14	27
M20	40	72	40	71	16	30
M24	50	90	50	90	20	36
M30	65	108	60	109	24	45
M36	75	128	70	128	28	54

MATERIALS

CARBON STEEL C15
STAINLESS STEEL

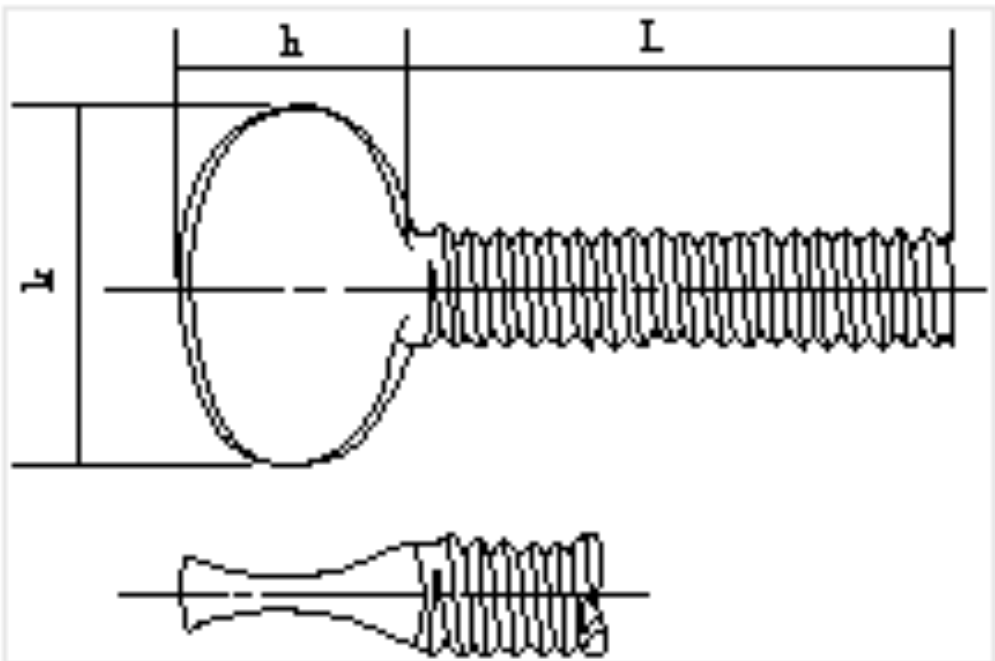
STANDARD

DIN 580
GB 825

Thumb Screws

สกรูหางแบน

IFI J-26
THUMB SCREWS
Thread Size: 8-12,1/4-1/2in
Length(L):7/16-4 in



Nominal Size	k	h	L
8	0.51	0.32	7/16-1
10	0.58	0.39	7/16-2
12	0.71	0.45	7/16-2
1/4	0.83	0.52	1/2-3
5/16	0.96	0.64	1/2-3
3/8	1.09	0.71	3/4-3
7/16	1.40	0.96	1-4
1/2	1.54	1.09	1-4



MATERIALS

CARBON STEEL
STAINLESS STEEL

STANDARD

IFI J-26

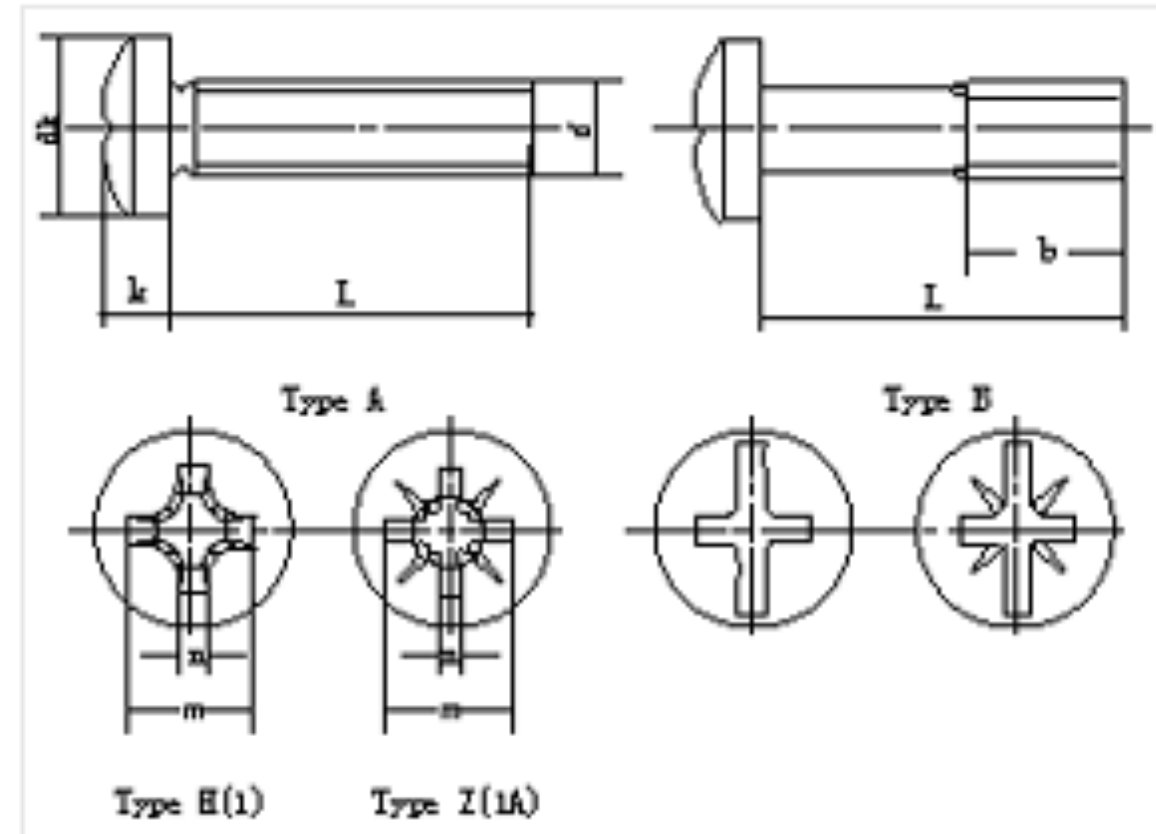
Cross Recessed Raised Cheese Head Screws

สกรูหัวแฉก

DIN 7985

CROSS RECESSED RAISED CHEESE HEAD SCREWS

Thread Size : M3-M10 Length(L): 6-100mm



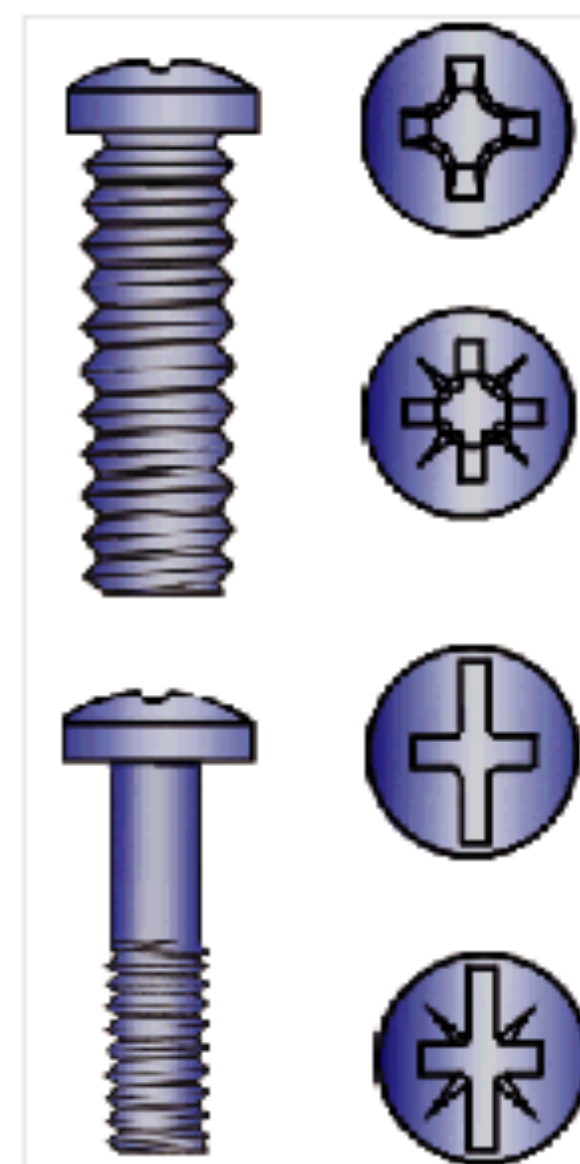
MATERIALS

STEEL
STAINLESS STEEL
BRASS

STANDARD

DIN 7985
ISO 7045
IFI I-23

Thread Size	dk	k	Cross recess			L	
			(Type H)m	(Type Z)m	No.	Type A	Type B
M3	6	2.4	3.1	3	1	6-22	25-30
M3.5	7	2.7	4.2	4	2	6-22	25-35
M4	8	3.1	4.6	4.3	2	8-25	28-40
M5	10	3.8	5.3	5.0	2	8-28	30-50
M6	12	4.6	6.8	6.7	3	10-35	40-60
M8	16	6	9.0	8.8	4	14-40	45-80
M10	20	7.5	10.2	9.9	4	18-45	50-100



IFI I-23(F-25)

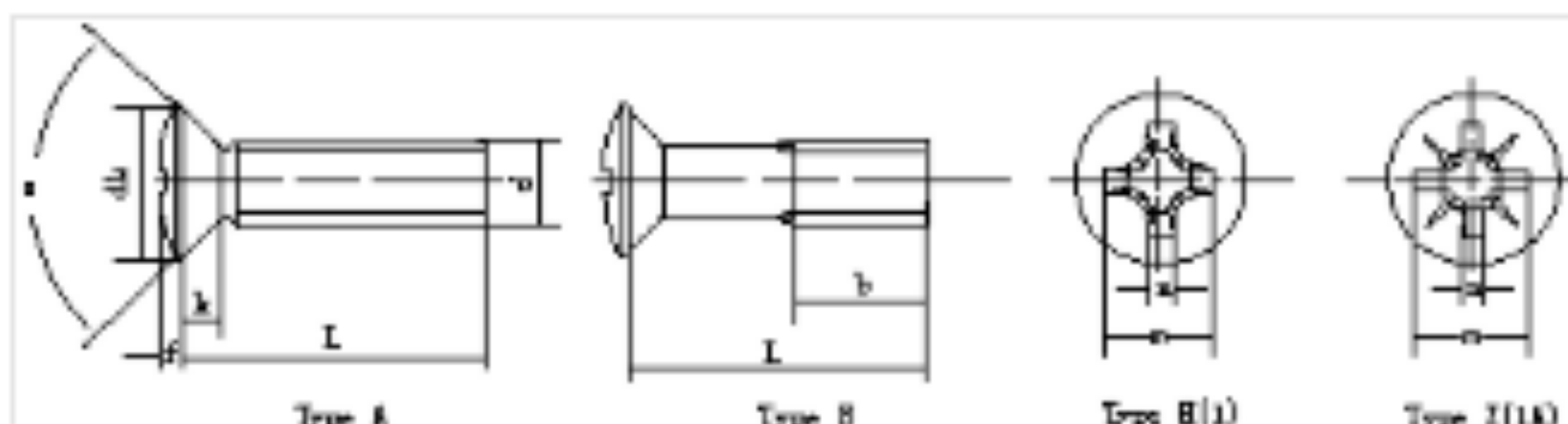
CROSS RECESSED PAN HEAD MACHINE SCREWS

Thread: Size:5-12,1/4-1/2in Length(L):1/2-3in

Thread Size	dk	k	Cross recess			L
			(Type H)m	(Type Z)m	No.	
5	0.245	0.089	0.145	0.141	2	1/2-2
6	0.270	0.097	0.153	0.149	2	1/2-2 1/2
8	0.322	0.115	0.169	0.164	2	1/2-2 1/2
10	0.373	0.133	0.186	0.180	2	5/8-2 1/2
12	0.425	0.151	0.246	0.241	3	3/4-4
1/4	0.492	0.175	0.268	0.260	3	7/8-4
5/16	0.615	0.218	0.337	0.328	4	1-4
3/8	0.740	0.261	0.376	0.364	4	1 1/4-3
7/16	0.863	0.305	0.400	0.386	4	1 1/4-3
1/2	0.987	0.348	0.422	0.407	4	1 1/4-3

CROSS RECESSED RAISED COUNTERSUNK HEAD SCREWS

สกรูหัวแฉกเตเปอร์



MATERIALS

STEEL
STAINLESS STEEL
BRASS

DIN 966

CROSS RECESSED RAISED COUNTERSUNK HEAD SCREWS

Thread Size : M3-M10 Length(L): 6-100mm

Thread Size	dk	k	f	Cross recess			L	
				(Type H)m	(Type Z)m	No.	Type A	Type B
M3	5.6	1.65	0.75	3.1	3.1	1	6-22	25-30
M3.5	6.5	1.93	0.90	4.2	4.3	2	6-22	25-35
M4	7.5	2.20	1.00	4.5	4.6	2	8-25	28-40
M5	9.2	2.50	1.25	5.3	5.3	2	8-28	30-50
M6	11.0	3.00	1.50	6.8	7.0	3	10-35	40-60
M8	14.5	4.00	2.00	9.0	8.8	4	14-40	45-80
M10	18.0	5.00	2.50	10.0	9.9	4	18-45	50-100

IFI I-17(F-19)

CROSS RECESSED OVAL COUNTERSUNK HEAD MACHINE SCREWS

Thread: Size:5-12,1/4-1/2in Length(L):1/4-4in

Thread Size	dk	k+f	Cross recess			L
			(Type 1)m	(Type 1A)m	No.	
5	0.252	0.116	0.145	0.145	2	1/4-2
6	0.279	0.128	0.165	0.165	2	1/4-2 1/2
8	0.332	0.152	0.179	0.179	2	5/16-2 1/2
10	0.385	0.176	0.196	0.196	2	3/8-2 1/2
12	0.438	0.200	0.257	0.257	3	1/2-4
1/4	0.507	0.232	0.277	0.277	3	1/2-4
5/16	0.635	0.290	0.377	0.377	4	5/8-4
3/8	0.762	0.345	0.397	0.397	4	5/8-4
7/16	0.812	0.347	0.409	0.409	4	5/8-4
1/2	0.875	0.354	0.424	0.424	4	5/8-4

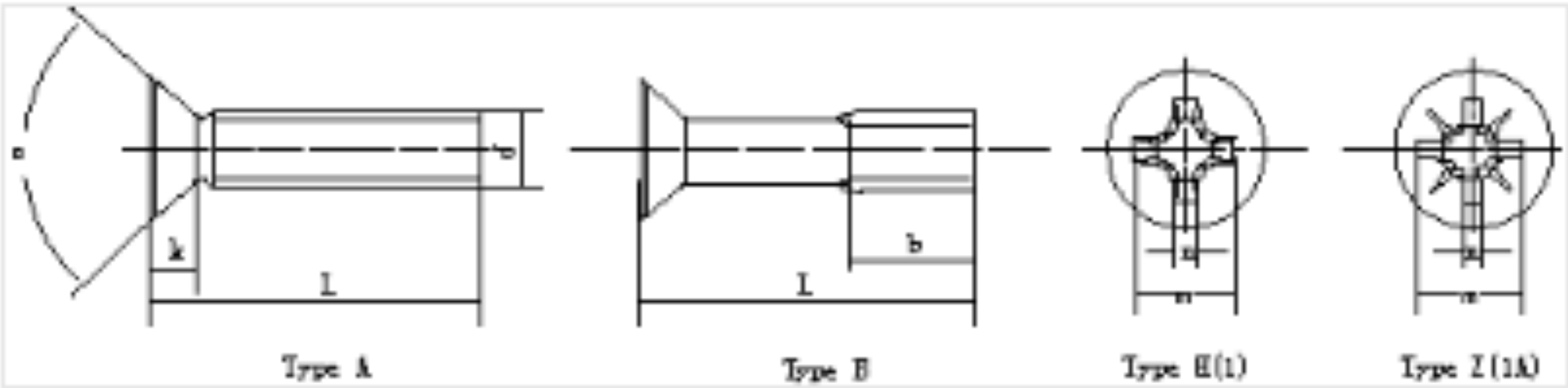


STANDARD

DIN 966
ISO 7047
IFI I-17
GB 820

CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS

สกรูหัวแฉกเตเปอร์หัวเรียบ



DIN 965
CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS
Thread Size : M3-M10 Length(L): 6-100mm

Thread Size	dk	k	Cross recess			L	
			(Type H)m	(Type Z)m	No.	Type A	Type B
M3	5.6	1.65	2.9	2.8	1	6-22	25-30
M3.5	6.5	1.93	3.9	3.7	2	6-22	25-35
M4	7.5	2.20	4.4	4.0	2	8-25	28-40
M5	9.2	2.50	4.6	4.4	2	8-28	30-50
M6	11.0	3.00	6.6	6.1	3	10-35	40-60
M8	14.5	4.00	8.7	8.5	4	14-40	45-80
M10	18.0	5.00	9.6	9.4	4	18-45	50-100

IFI I-7(F-9)
CROSS RECESSED FLAT COUNTERSUNK HEAD MACHINE SCREWS
Thread: Size:5-12,1/4-1/2in Length(L):1/4-4in

Thread Size	dk	k	Cross recess			L
			(Type 1)m	(Type 1A)m	No.	
5	0.245	0.089	0.145	0.141	2	1/2-2
6	0.270	0.097	0.153	0.149	2	1/2-2 1/2
8	0.322	0.115	0.169	0.164	2	1/2-2 1/2
10	0.373	0.133	0.186	0.180	2	5/8-2 1/2
12	0.425	0.151	0.246	0.241	3	3/4-4
1/4	0.492	0.175	0.268	0.260	3	7/8-4
5/16	0.615	0.218	0.337	0.328	4	1-4
3/8	0.740	0.261	0.376	0.364	4	1 1/4-3
7/16	0.863	0.305	0.400	0.386	4	1 1/4-3
1/2	0.987	0.348	0.422	0.407	4	1 1/4-3



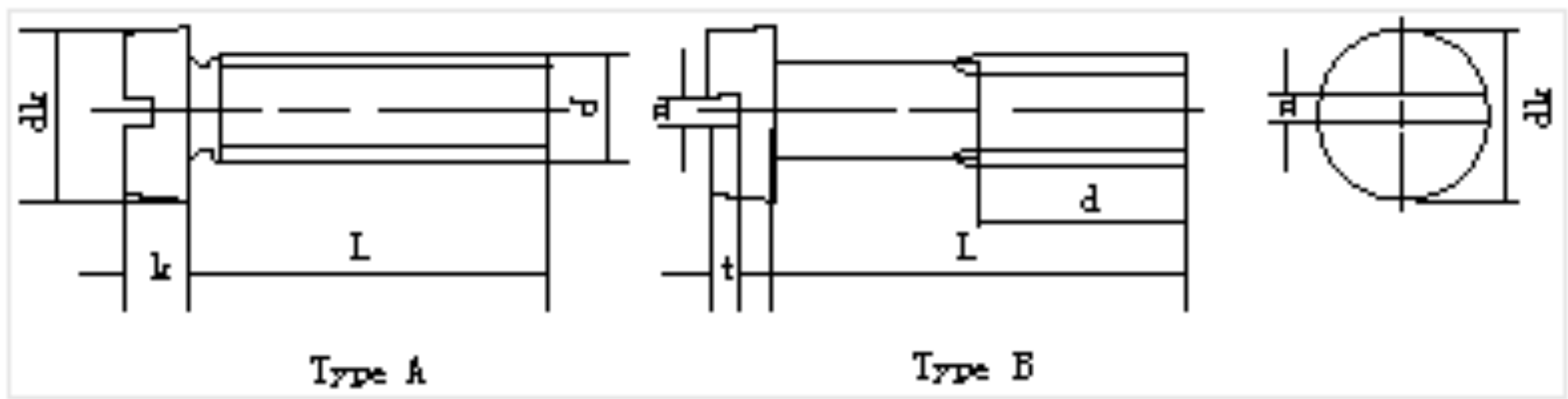
MATERIALS

STEEL
STAINLESS STEEL
BRASS

STANDARD

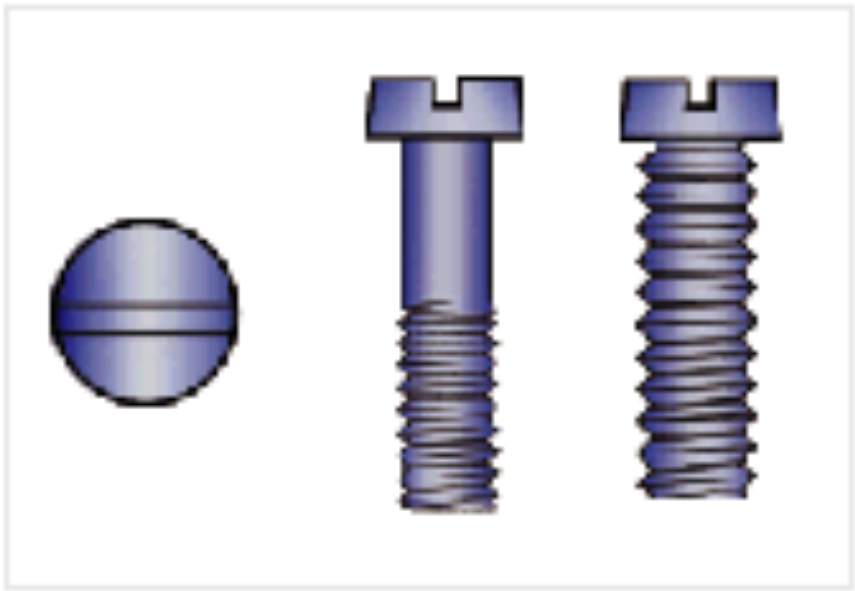
DIN 965
ISO 7046
IFI I-7
GB 819

Slotted Cheese Head Screws



DIN 965
CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS
Thread Size : M3-M10 Length(L): 6-100mm

Thread Size	dk	k	L	
			Type A	Type B
M3	5.5	2	6-22	25-30
M3.5	6	2.4	6-22	25-35
M4	7	2.6	8-25	28-40
M5	8.5	3.3	8-28	30-50
M6	10	3.9	10-35	40-60
M8	13	5	14-40	45-80
M10	16	6	18-45	50-100



MATERIALS

STEEL

STAINLESS STEEL

BRASS

STANDARD

DIN 845

ISO 1207

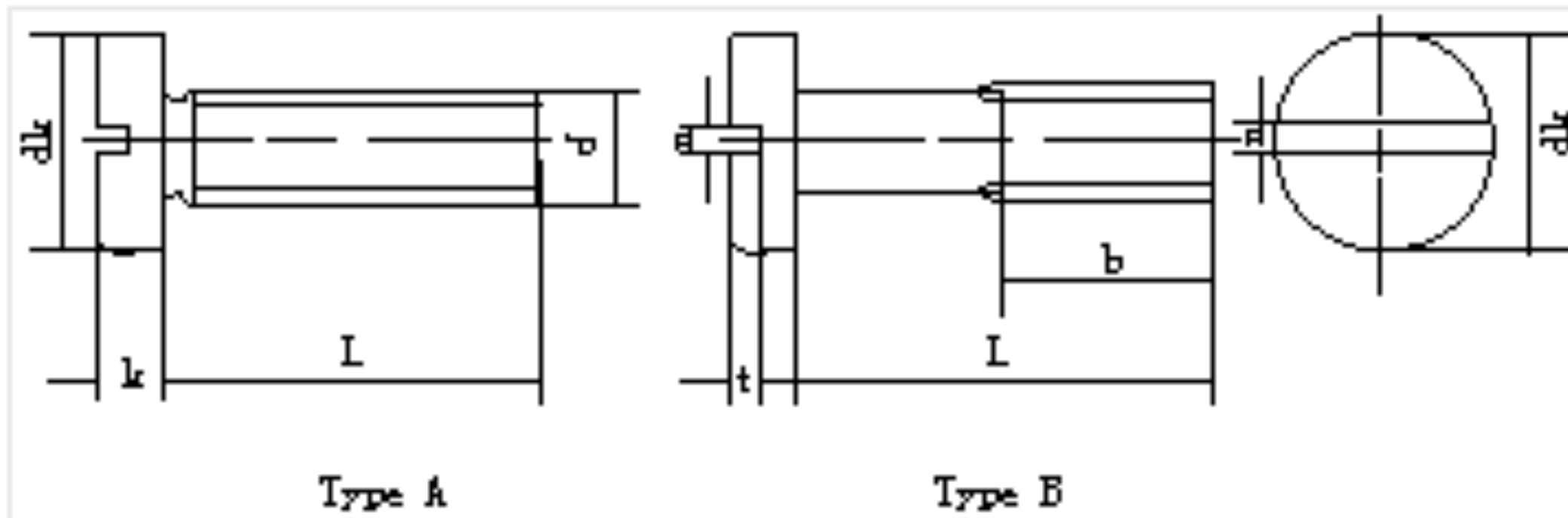
B.S. 4183

GB 65



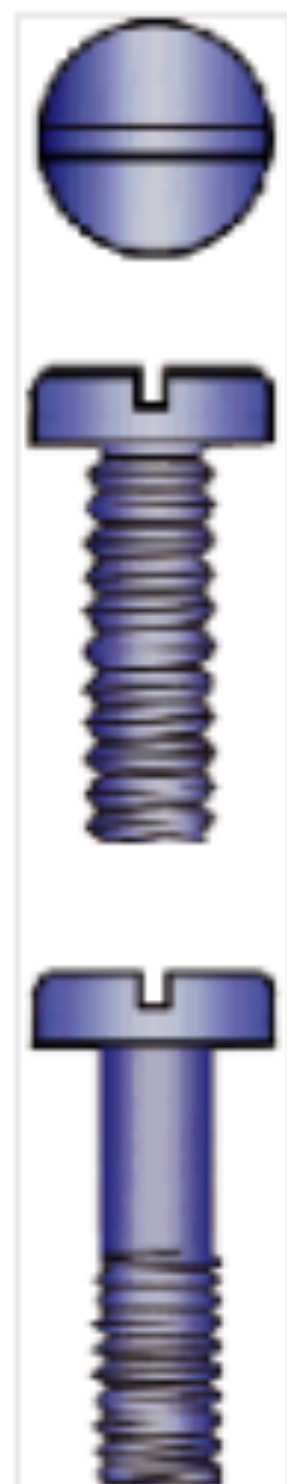
Slotted Pan Head Screws

สกรูหัวผ่า



MATERIALS

STEEL
STAINLESS STEEL
BRASS



DIN 85

SLOTTED PAN HEAD SCREWS

Thread Size: M3-M10 Length(L):6-100mm

Thread Size	dk	k	L	
			Type A	Type B
M3	6	1.8	6-22	25-30
M3.5	7	2.1	6-22	25-35
M4	8	2.4	8-25	28-40
M5	10	3.0	8-28	30-50
M6	12	3.6	10-35	40-60
M8	16	4.8	14-40	45-80
M10	20	6.0	18-45	50-100

STANDARD

DIN 85
ISO 1580
IFI I-22
GB 67

IFI I-22(F-24)

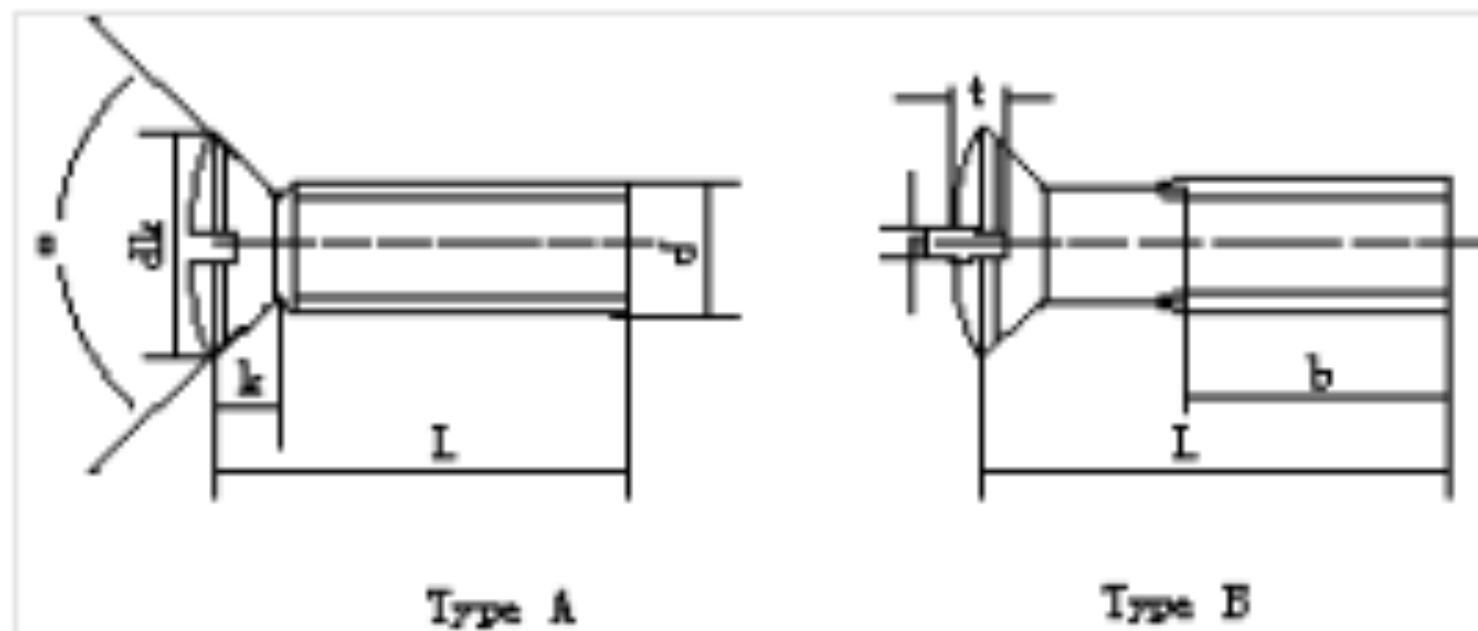
SLOTTED PAN HEAD MACHINE SCREWS

Thread: Size:5-12,1/4-1/2in Length(L):1/2-3in

Thread Size	dk	k	L
5	0.245	0.075	1/2-1 1/4
6	0.270	0.082	1/2-1 1/4
8	0.322	0.096	1/2-1 1/4
10	0.373	0.110	5/8-2
12	0.425	0.125	3/4-2 1/4
1/4	0.492	0.144	7/8-2 1/4
5/16	0.615	0.178	1-3
3/8	0.740	0.212	1 1/4-3
7/16	0.863	0.247	1 1/4-3
1/2	0.987	0.281	1 1/4-3

SLOTTED RAISED / OVAL COUNTERSUNK HEAD SCREWS

สกรูหัวผ่านุน เทเปอร์



MATERIALS

STEEL
STAINLESS STEEL
BRASS

DIN 964
SLOTTED RAISED
COUNTERSUNK
HEAD SCREWS
Thread Size: M3-M10
Length(L):6-100mm

Thread Size	dk	k	f	L	
				Type A	Type B
M3	5.6	1.65	0.75	6-22	25-30
M3.5	6.5	1.93	0.90	6-22	25-35
M4	7.5	2.20	1.00	8-25	28-40
M5	9.2	2.50	1.25	8-28	30-50
M6	11.0	3.00	1.50	10-35	40-60
M8	14.5	4.00	2.00	14-40	45-80
M10	18.0	5.00	2.50	18-45	50-100

STANDARD

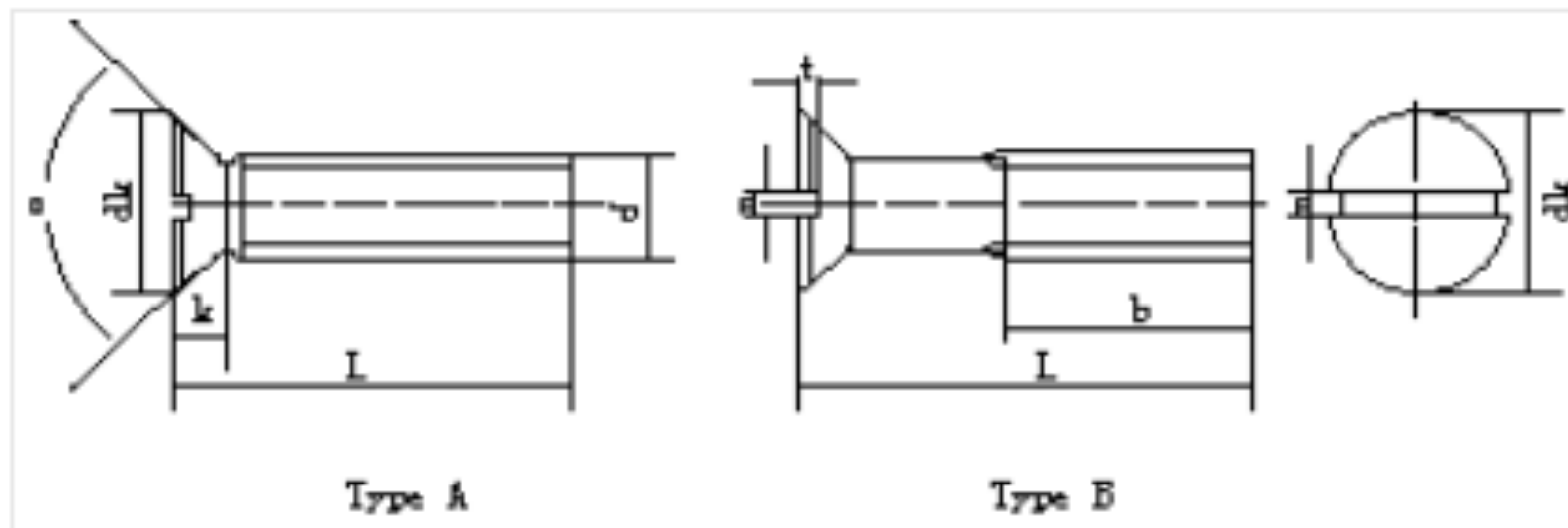
DIN 964
ISO 2010
B.S. 4183
IFI I-16
GB 69

IFI I-16(F-18)
SLOTTED OVAL COUNTERSUNK HEAD MACHINE SCREWS
Thread: Size:5-12,1/4-1/2in Length(L):1/4-4in

Thread Size	dk	k+f	L
5	0.252	0.116	1/4-2
6	0.279	0.128	1/4-2 1/2
8	0.332	0.152	5/16-2 1/2
10	0.385	0.176	3/8-2 1/2
12	0.438	0.200	1/2-4
1/4	0.507	0.232	1/2-4
5/16	0.635	0.290	5/8-4
3/8	0.762	0.345	5/8-4
7/16	0.812	0.347	5/8-4
1/2	0.875	0.354	5/8-4

SLOTTED COUNTERSUNK HEAD SCREWS

สกรูหัวผ่าแบน เทเปอร์

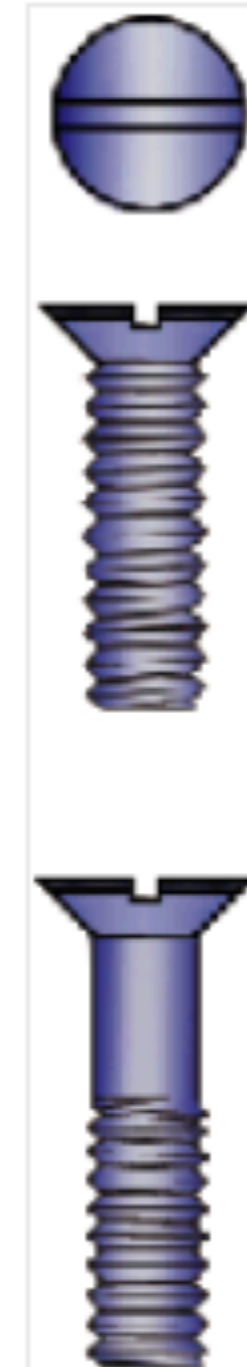


DIN 963

SLOTTED COUNTERSUNK HEAD SCREWS

Thread Size: M3-M10 Length(L):6-100mm

Thread Size	dk	k	L	
			Type A	Type B
M3	5.6	1.65	6-22	25-30
M3.5	6.5	1.93	6-22	25-35
M4	7.5	2.2	8-25	28-40
M5	9.2	2.5	8-28	30-50
M6	11.0	3.0	10-35	40-60
M8	14.5	4.0	14-40	45-80
M10	18.0	5.0	18-45	50-100



MATERIALS

STEEL
STAINLESS STEEL
BRASS

STANDARD

DIN 963
ISO 2009
B.S. 4183
IFI I-6
GB 68

IFI I-6(F-8)

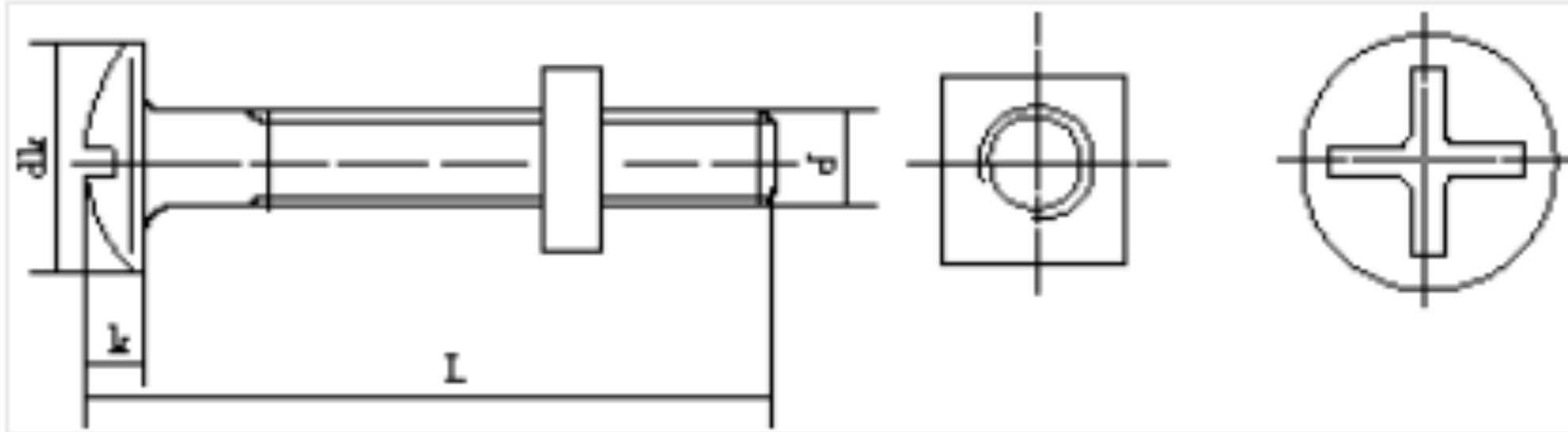
SLOTTED FLAT COUNTERSUNK HEAD MACHINE SCREWS

Thread: Size:5-12,1/4-1/2in Length(L):1/4-4in

Thread Size	dk	k	L
5	0.252	0.075	1/4-1
6	0.279	0.083	1/4-2
8	0.332	0.100	5/16-2 1/2
10	0.385	0.116	3/8-2 1/2
12	0.438	0.132	1/2-4
1/4	0.507	0.153	1/2-4
5/16	0.635	0.191	5/8-4
3/8	0.762	0.230	3/4-4
7/16	0.812	0.223	3/4-4
1/2	0.875	0.223	3/4-4

ROOFING BOLTS & NUTS

สกรู น๊อต ยึดหลังคา



DIN STANDARD ROOFING BOLTS & NUTS

Thread Size: M4-M8 Length(L):10-150mm

Thread Size	dk	k	L
M4	9.40	1.90	10-50
M5	11.6	2.65	10-80
M6	13.95	3.33	12-120
M8	18.90	3.80	16-150



MATERIALS

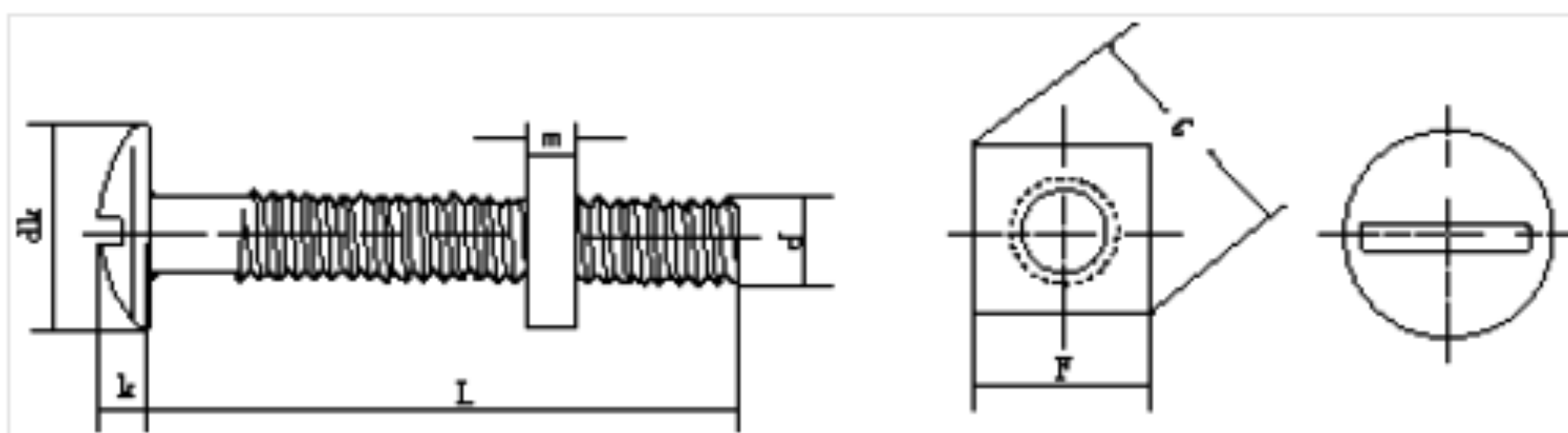
CARBON STEEL

4.8

STANDARD

DIN B.S. 4183

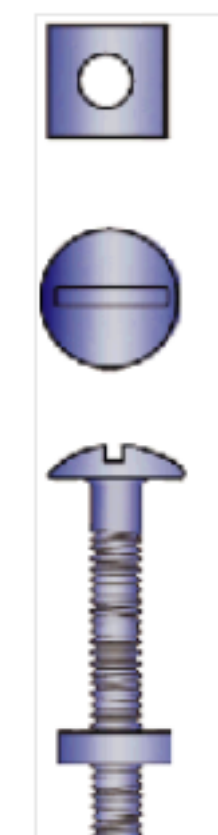
ART. J1252 / J1253



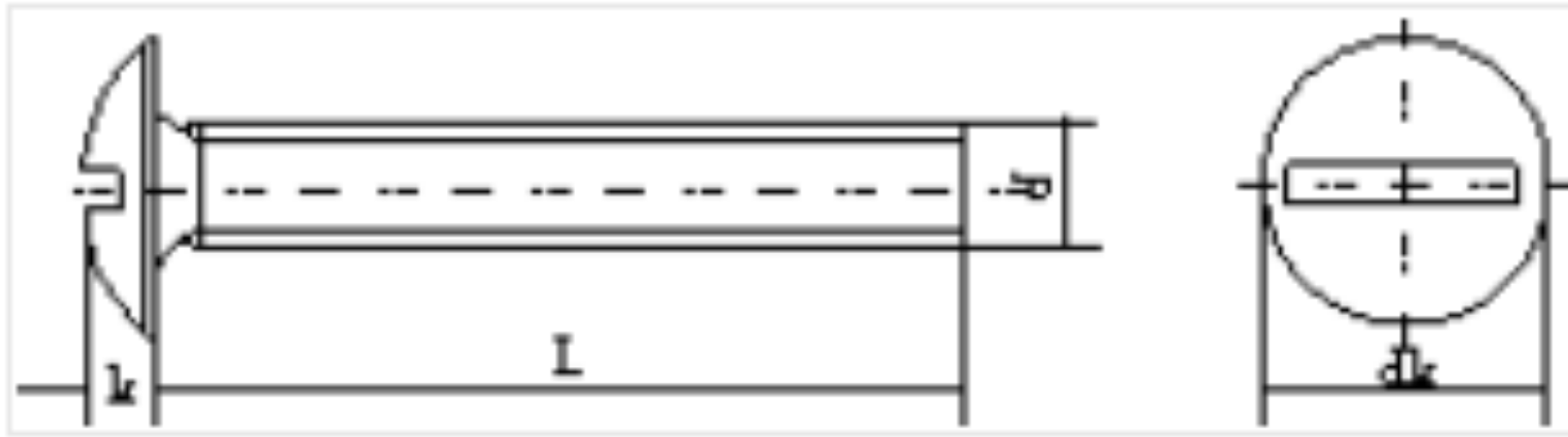
B.S. STANDARD GALVANIZED ROOFING BOLTS & NUTS

Thread Size: 3/16in Length(L):3/16-5 in

Thread Size	dk	k	m	F	G	L
3/16	10.0	2.3	3.048	8.128	11.684	3/16-3
1/4	13.3	3.0	0.302	11.176	16.002	1/2-5



Truss Head Machine Screws



IFI I-26(F-28) SLOTTED TRUSS HEAD MACHINE SCREWS

Thread Size: 5-12, 1/4-1/2 in

Length(L): 1/2-4 in

Thread Size	dk	k	L
5	0.289	0.078	1/2-2
6	0.321	0.086	1/2-2 1/2
8	0.384	0.102	1/2-2 1/2
10	0.448	0.118	5/8-2 1/2
12	0.511	0.134	3/4-4
1/4	0.573	0.150	7/8-4
5/16	0.698	0.783	1-4
3/8	0.823	0.215	1 1/4-4
7/16	0.948	0.248	1 1/4-4
1/2	1.073	0.280	1 1/4-4



MATERIALS

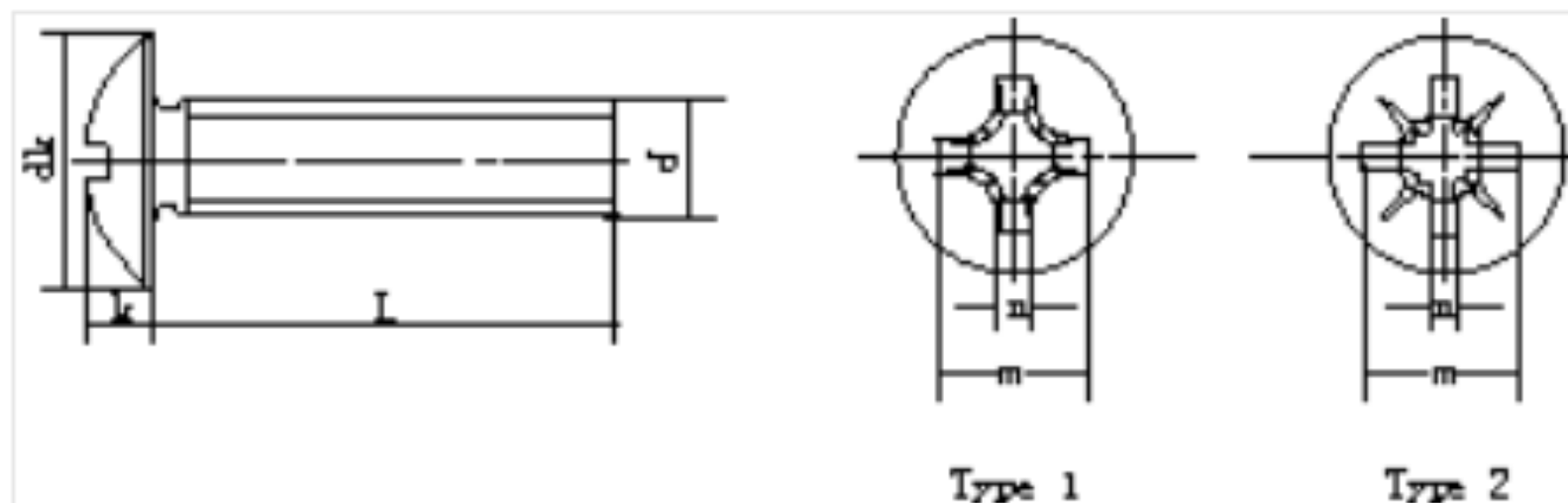
STEEL

STAINLESS STEEL

BRASS

STANDARD

IFI I-26 / I-27



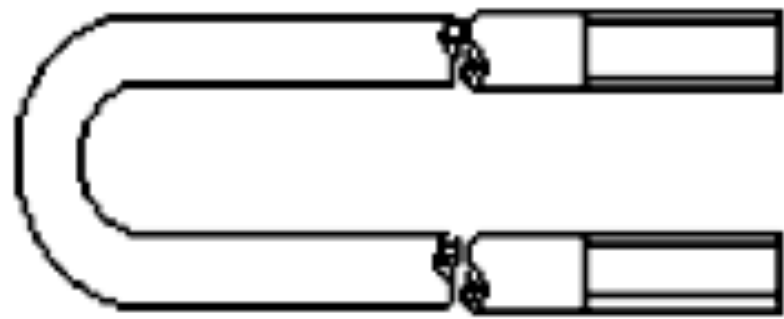
IFI I-27(F-29) CROSS RECESSED TRUSS HEAD MACHINE SCREWS

Thread Size: 5-12, 1/4-1/2 in Length(L): 1/2-4 in

Thread Size	dk	k	Cross recess			L
			(Type 1)m	(Type 1A)m	No.	
5	0.289	0.078	0.115	0.111	1	1/2-2
6	0.321	0.086	0.145	0.135	2	1/2-2 1/2
8	0.384	0.102	0.160	0.149	2	1/2-2 1/2
10	0.448	0.118	0.175	0.165	2	5/8-2 1/2
12	0.511	0.134	0.235	0.221	3	3/4-4
1/4	0.573	0.150	0.250	0.235	3	7/8-4
5/16	0.698	0.183	0.339	0.320	4	1-4
3/8	0.823	0.215	0.370	0.351	4	1 1/4-4
7/16	0.948	0.248	0.401	0.381	4	1 1/4-4
1/2	1.073	0.280	0.431	0.409	4	1 1/4-4



Bent Bolts



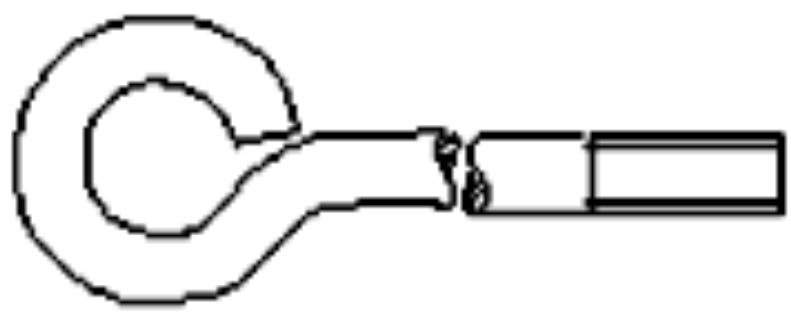
U-Bolt, Round Bend



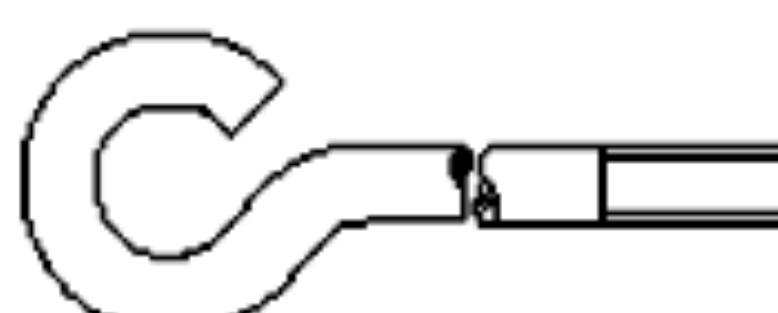
U-Bolt, Square Bend



J-Bolt



Eye Bolt , Closed



Eye Bolt , Open



Hook Bolt, Round Bend



Hook Bolt, Right Angle Bend



Hook Bolt, Special



Hook Bolt, Square Bend

MATERIALS

CARBON STEEL

4.8

STANDARD

DIN 3570

IFI C-86-87

Wing Screws

สกรูหางปลา

Steel Grade o = ขนาดที่มี

L (mm)	M4	M5	M6	M8	M10
10	o	o			
12	o	o	o		
15	o	o	o	o	
20	o	o	o	o	o
25	o	o	o	o	o
30	o	o	o	o	o
35	o	o	o	o	o
40	o	o	o	o	o
50	o	o	o	o	o

Stainless Steel Grade o = ขนาดที่มี

L (mm)	M4	M5	M6	M8
10	o	o	o	
12	o	o	o	
15-16	o	o	o	o
20	o	o	o	o
25	o	o	o	o
30	o	o	o	o
35		o	o	o
40		o	o	o
45		o	o	o
50		o	o	o

MATERIALS
STEEL
STAINLESS STEEL

STANDARD
DIN 316

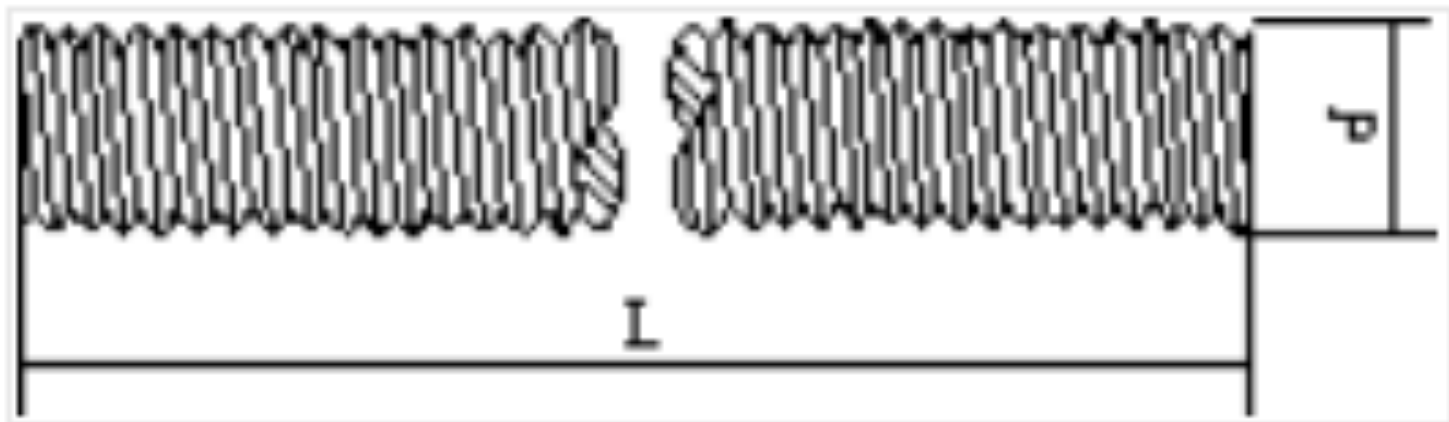


Thread Rods

แท่งเกลียว

DIN B.S. ANSI THREAD RODS

Thread Size:M6-M24, 1/4-1 in
Length(L):1000-4000mm,3-12 feet



d	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
L	1000mm-4000mm									

d	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
L	3feet-12feet									

MATERIALS
CARBON STEEL 4.8 / 8.8 STAINLESS STEEL

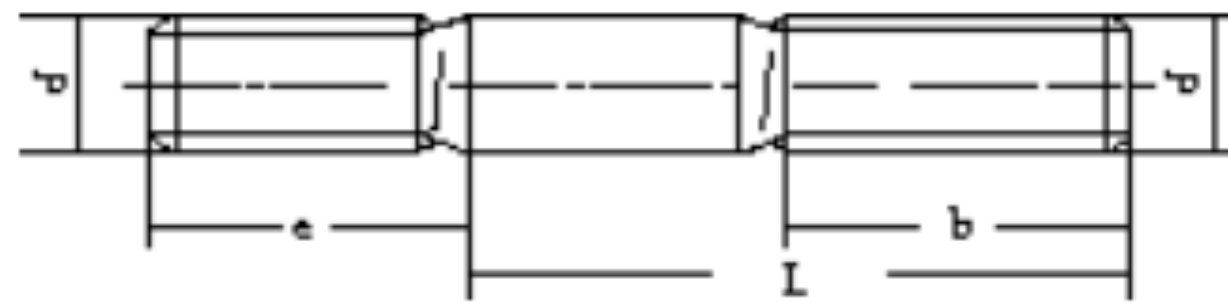
STANDARD
DIN 975 /976 B.S. ANSI

Studs

สตั๊ดเกลียว

DIN 835 STUDS THREADED END=2d

Thread Size:M4-M24
Length(L):20-200mm



Thread Size	b			e	L
	1)	2)	3)		
M4	14	20	-	8	20-40
M5	16	22	-	10	22-50
M6	18	24	-	12	25-60
M8 M8X1	22	28	-	16	30-80
M10 M10X1.25	26	32	45	20	35-100
M12 M12X1.25	30	36	49	24	40-120
M14 M14X1.5	34	40	53	28	45-140
M16 M16X1.5	38	44	57	32	50-160
M18 M18X1.5	42	45	61	36	55-180
M20 M20X1.5	46	52	65	40	60-200
M22 M22X1.5	50	56	69	44	65-200
M24 M24X2	54	60	73	48	70-200



MATERIALS

CARBON STEEL

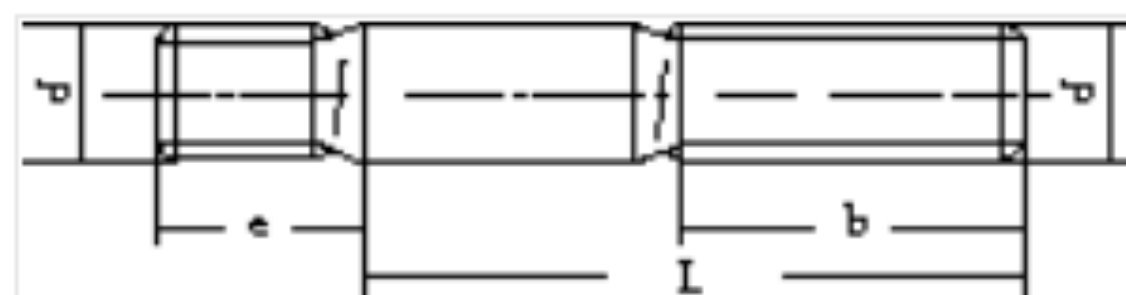
4.8 / 8.8

STANDARD

DIN 835 / 938 / 939

DIN 938 STUDS THREADED END=1d

Thread Size:M4-M24
Length(L):20-200mm



Thread Size	b			e	L
	1)	2)	3)		
M4	14	20	-	4	20-40
M5	16	22	-	5	22-50
M6	18	24	-	6	25-60
M8 M8X1	22	28	-	8	30-80
M10 M10X1.25	26	32	45	10	35-100
M12 M12X1.25	30	36	49	12	40-120
M14 M14X1.5	34	40	53	14	45-140
M16 M16X1.5	38	44	57	16	50-160
M18 M18X1.5	42	45	61	18	55-180
M20 M20X1.5	46	52	65	20	60-200
M22 M22X1.5	50	56	69	22	65-200
M24 M24X2	54	60	73	24	70-200



Studs

สตั๊ดเกลียว

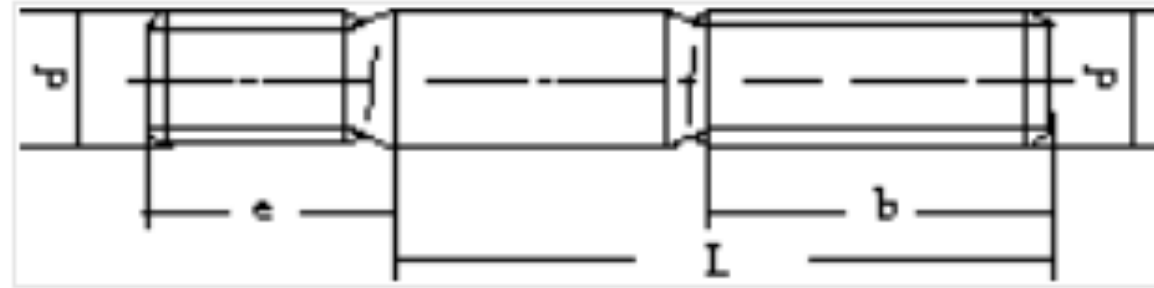
DIN 939

STUDS THREADED

END=1.25d

Thread Size:M4-M36

Length(L):20-360mm



Thread Size	b			e	L
	1)	2)	3)		
M4	14	20	-	8	20-40
M5	16	22	-	10	22-50
M6	18	24	-	12	25-60
M8 M8X1	22	28	-	16	30-80
M10 M10X1.25	26	32	45	20	35-100
M12 M12X1.25	30	36	49	24	40-120
M14 M14X1.5	34	40	53	28	45-140
M16 M16X1.5	38	44	57	32	50-160
M18 M18X1.5	42	45	61	36	55-180



MATERIALS

CARBON STEEL

4.8 / 8.8

STANDARD

DIN 835 / 938 / 939

Thread Size	b			e	L
	1)	2)	3)		
M20 M20X1.5	46	52	65	40	60-200
M22 M22X1.5	50	56	69	44	65-200
M24 M24X2	54	60	73	48	70-200
27M	60	66	79	35	75-280
M27X2					
M30 M30X2	66	72	85	38	85-300
M36 M36X3	78	84	97	45	100-360

S O C K E T
B O L T S
&
S E T
S K R E W S

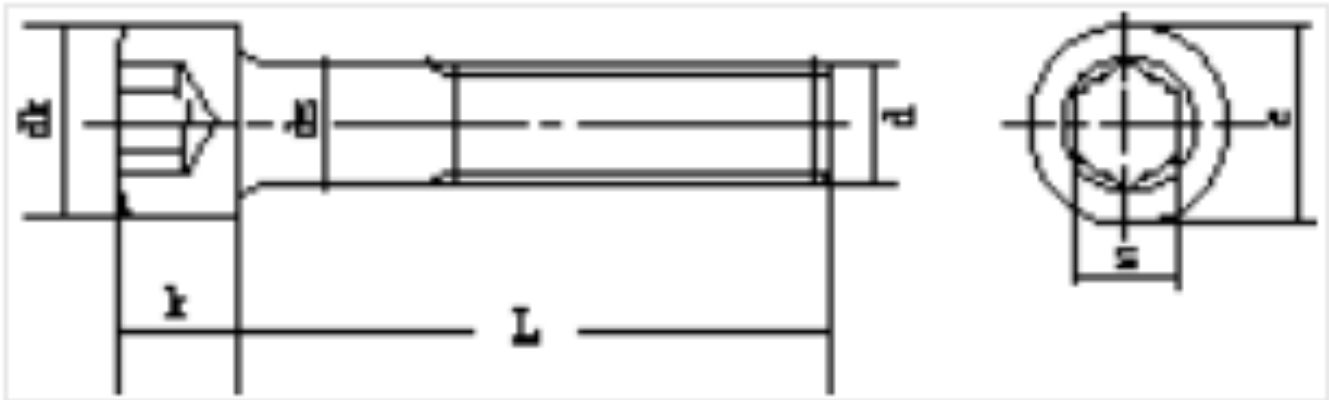


Hexagon Socket Head Cap Screws

สกรูหัวจม

DIN 912
HEXAGON SOCKET HEAD
CAP SCREWS

Thread Size: M3-M20 Length(L):
5-200mm



Thread Size	Pitch	dk	ds	k	e	s	L
M3	0.5	5.32	3	2.86	2.87	2.5	5-30
M4	0.7	6.78	4	3.82	3.44	3	6-40
M5	0.8	8.28	5	4.82	4.58	4	8-50
M6	1.0	9.78	6	5.7	5.72	5	10-60
M8	1.25	12.73	8	7.64	6.86	6	12-80
M10	1.50	15.73	10	9.64	9.15	8	16-100
M12	1.75	17.73	12	11.57	11.43	10	20-120
M14	2.0	20.67	14	13.57	13.72	12	25-140
M16	2.0	23.67	16	15.57	16.00	14	25-160
M20	2.5	29.67	20	19.48	19.44	17	30-200



MATERIALS

CARBON STEEL
8.8/10.9/12.9
STAINLESS STEEL

STANDARD

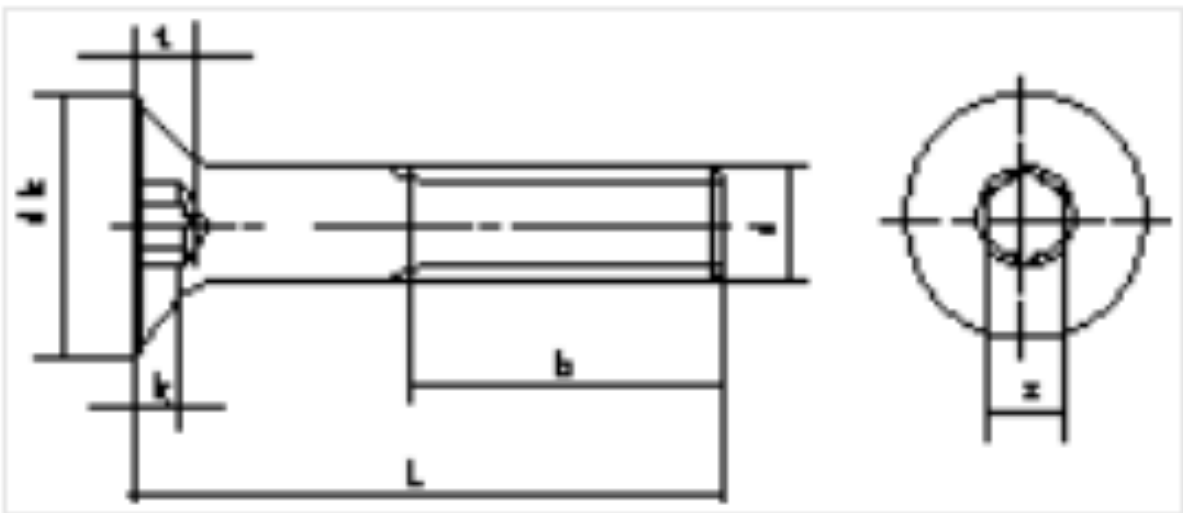
DIN 912
ISO 4762
B.S. 4165
IFI C-10
GB 70

Hex Socket Countersunk Head Cap Screws

สกรูหัวจมเตปเปอร์

DIN 7991
HEXAGON SOCKET
COUNTERSUNK HEAD CAP
SCREWS

Thread Size: M3-M20 Length(L): 8-100mm



Thread Size	b			ds	k	s	t	L
	1)	2)	3)					
M3	12	-	-	6	1.70	2.00	0.95	8-30
M4	14	-	-	8	2.30	2.50	1.55	8-40
M5	16	-	-	10	2.80	3.00	2.05	10-50
M6	18	24	-	12	3.30	4.00	2.25	12-50
M8	22	28	-	16	4.40	5.00	3.20	16-60
M10	26	32	45	20	5.50	6.00	4.10	20-70
M12	30	36	49	24	6.50	8.00	4.30	25-70
M16	38	44	57	30	7.50	10.00	5.00	35-90
M20	46	52	65	36	8.50	12.00	5.60	40-100



MATERIALS

CARBON STEEL

4.8/8.8

10.9/12.9

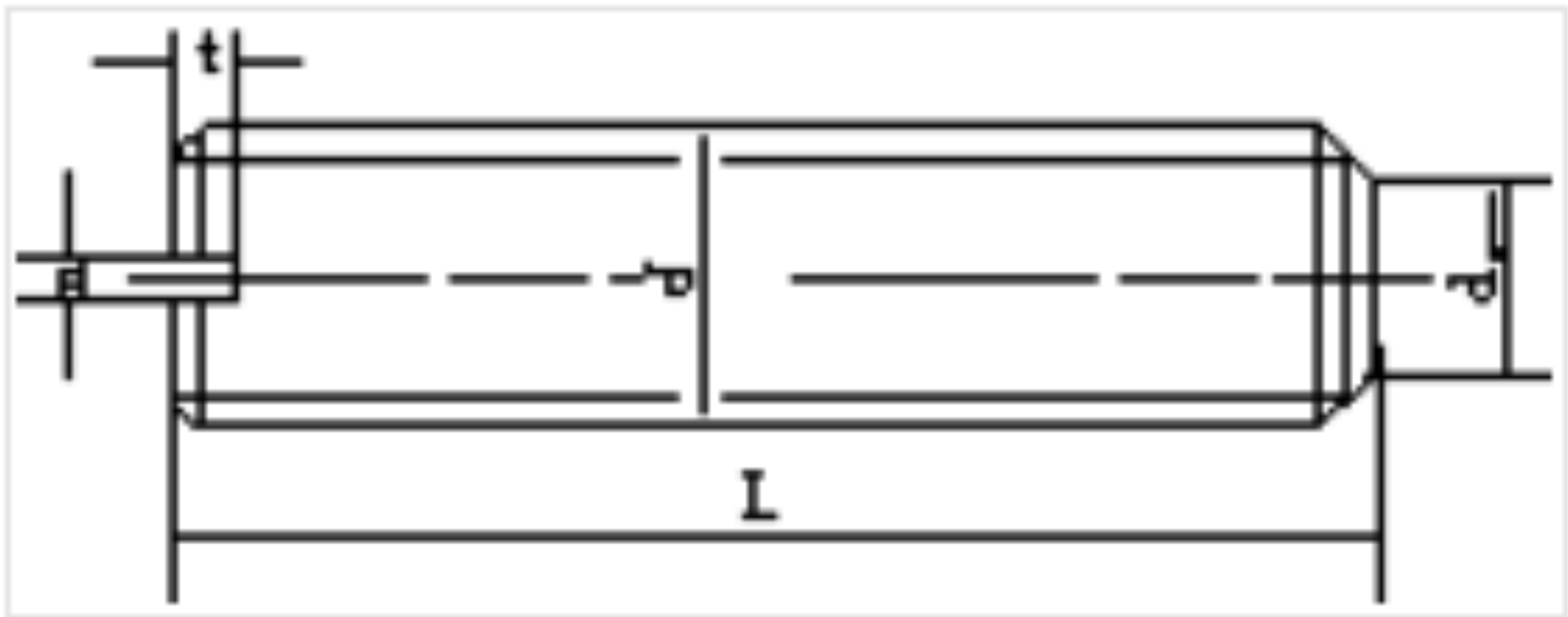
STANDARD

DIN 7991

Slotted Set Screws With Cup Point

DIN 438
SLOTTED SET SCREWS WITH CUP POINT
Thread Size:M3-M10, 1/4-1 in Length(L):3-30mm

Thread Size	Pitch	dz	n	t	L
M3	0.5	1.4	0.4	0.8	3-10
M4	0.7	2.0	0.6	1.12	4-12
M5	0.8	2.5	0.8	1.28	5-16
M6	1.0	3.0	1.0	1.60	6-20
M8	1.25	5.0	1.2	2.00	8-25
M10	1.50	6.0	1.6	2.40	10-30



MATERIALS

CARBON STEEL
12.9
STAINLESS STEEL

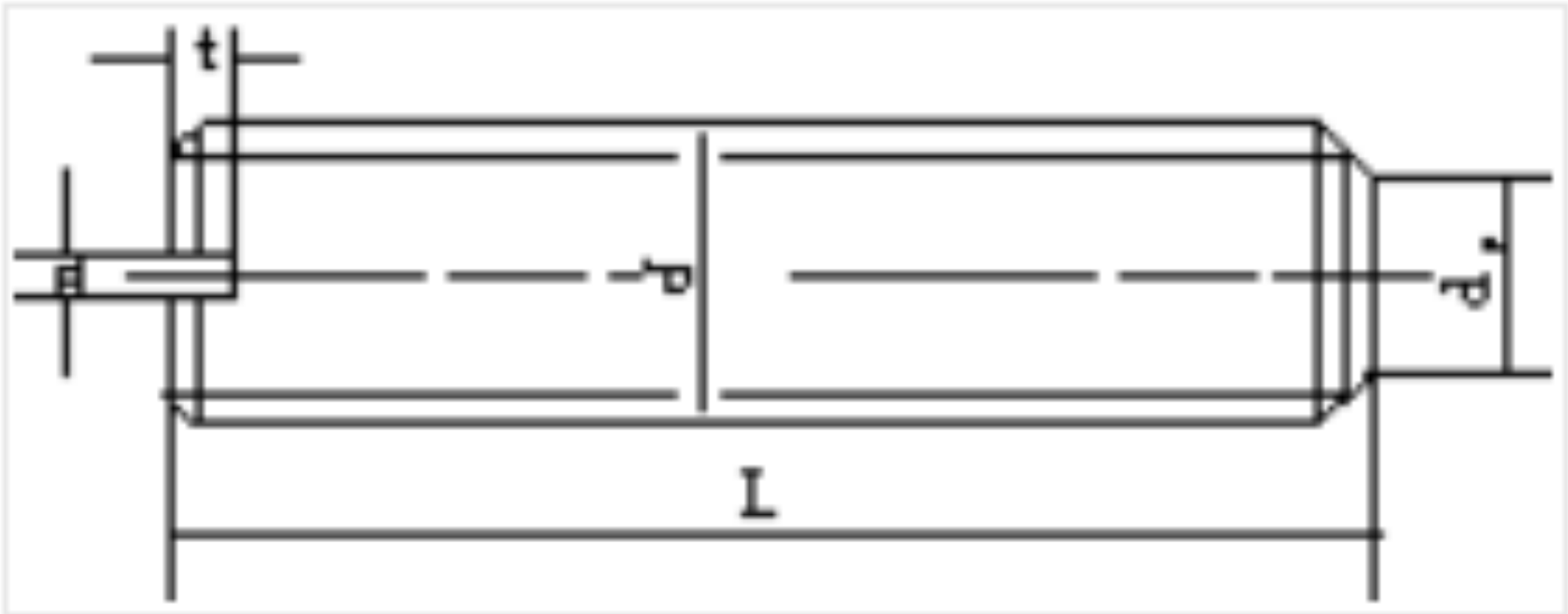
STANDARD

DIN 438
ISO 7436
B.S. 4219
GB 74

Slotted Set Screws With Flat Point

DIN 551
SLOTTED SET SCREWS WITH FLAT POINT
Thread Size:M3-M10 Length(L):3-30mm

Thread Size	Pitch	dp	n	t	L
M3	0.5	2.0	0.4	0.8	3-10
M4	0.7	2.5	0.6	1.12	4-12
M5	0.8	3.5	0.8	1.28	4-16
M6	1.0	4.0	1.0	1.60	5-20
M8	1.25	5.0	1.2	2.00	6-25
M10	1.50	7.0	1.6	2.40	10-30



MATERIALS

CARBON STEEL

12.9

STAINLESS STEEL

STANDARD

DIN 551

ISO 4766

B.S. 4219

GB 73

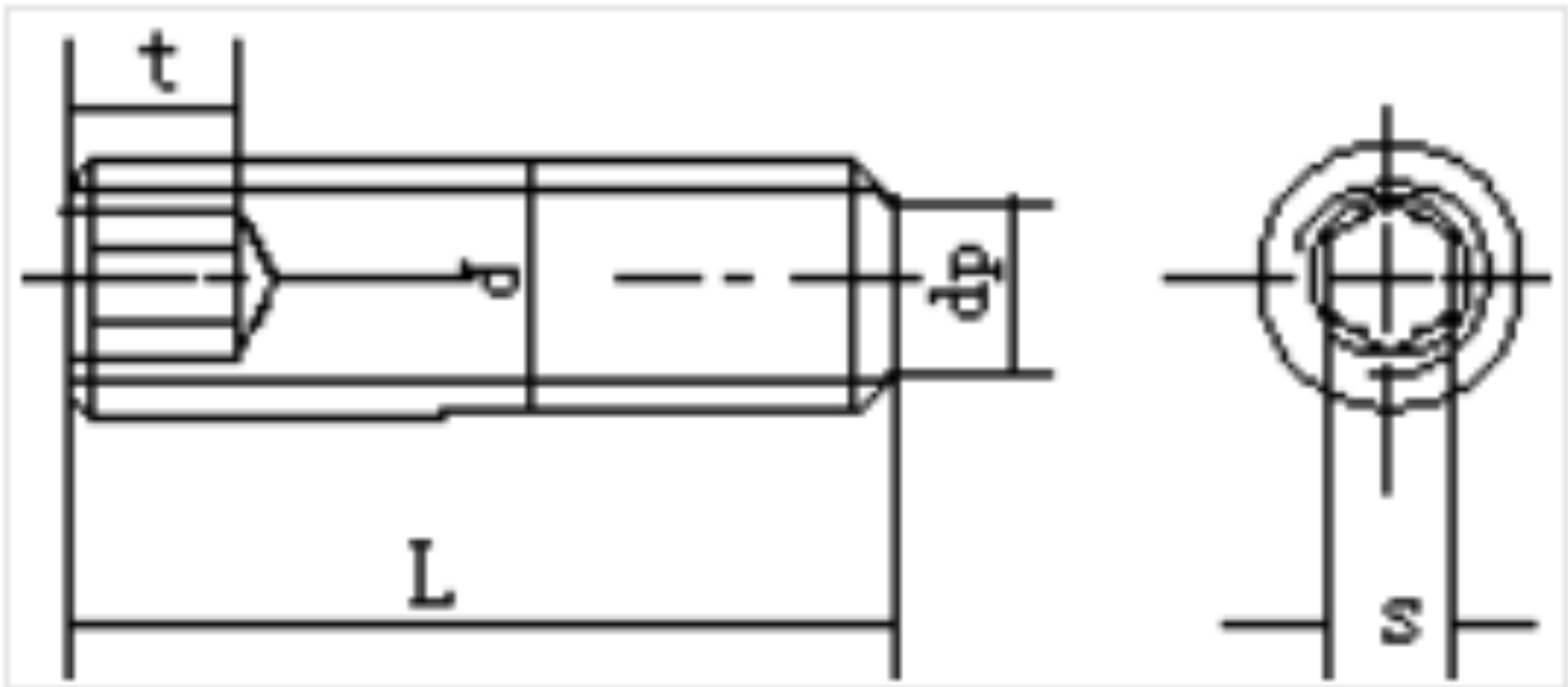
Hexagon Socket Set Screws

With Flat Point

DIN 913
HEXAGON SOCKET SET SCREWS
WITH FLAT POINT

Thread Size:M3-M20, Length(L):4-60mm

Thread Size	dp	s	t	L
M3	2.0	1.5	1.2	4-16
M4	2.5	2.0	1.5	5-20
M5	3.5	2.5	2.0	6-25
M6	4.0	3.0	2.0	8-30
M8	5.5	4.0	3.0	10-40
M10	7.0	5.0	4.0	12-50
M12	8.5	6.0	4.8	16-60
M16	12.0	8.0	6.4	20-60
M20	15.0	10.0	8.0	25-60



MATERIALS

CARBON STEEL

12.9

STAINLESS STEEL

STANDARD

DIN 913/914/915/916

ISO 4029

B.S. 4168

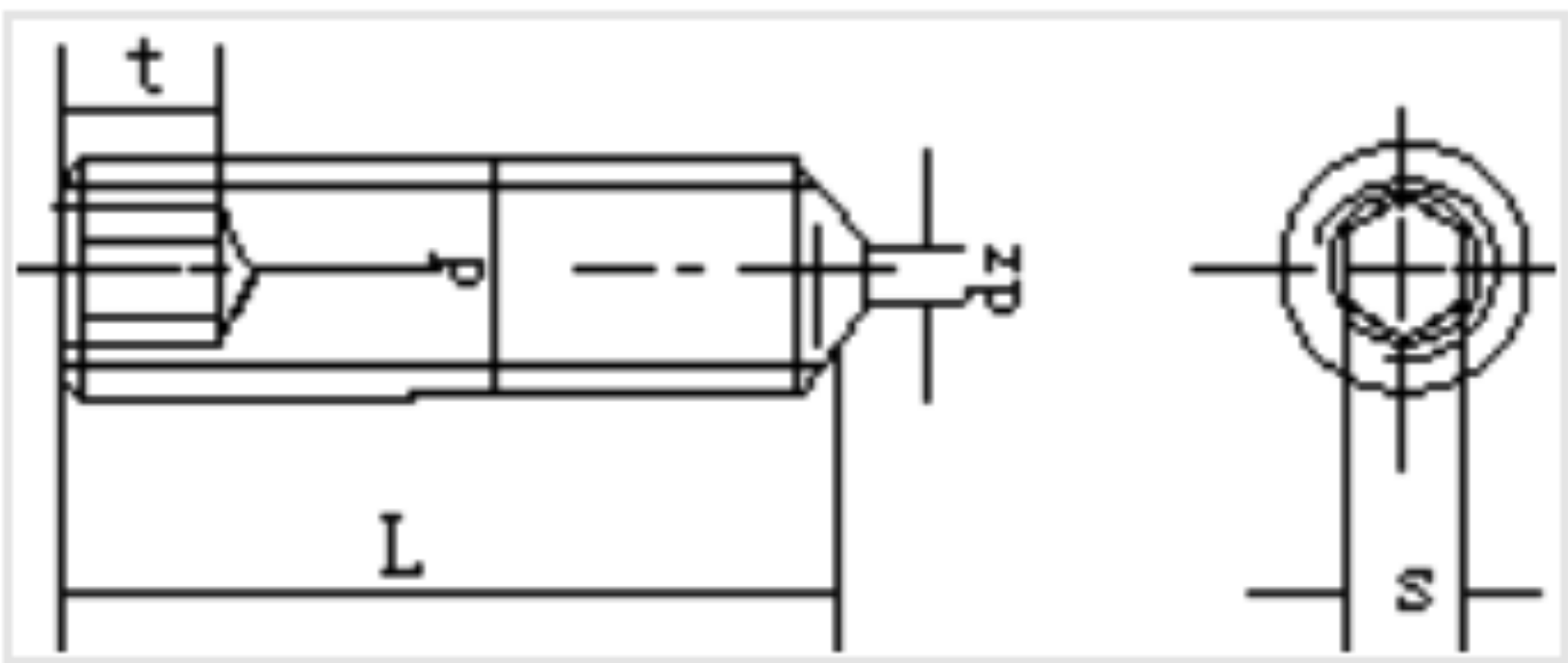
GB 80

Hexagon Socket Set Screws With Cone Point

DIN 914
HEXAGON SOCKET SET SCREWS
WITH CONE POINT

Thread Size:M3-M20 Length(L):5-60mm

Thread Size	dp	s	t	L
M3	-	1.5	1.2	5-16
M4	-	2.0	1.5	6-20
M5	-	2.5	2.0	8-25
M6	1.5	3.0	2.0	10-30
M8	2.0	4.0	3.0	12-40
M10	2.5	5.0	4.0	16-50
M12	3.0	6.0	4.8	20-60
M16	4.0	8.0	6.4	25-60
M20	5.0	10.0	8.0	30-60



MATERIALS

CARBON STEEL

12.9

STAINLESS STEEL

STANDARD

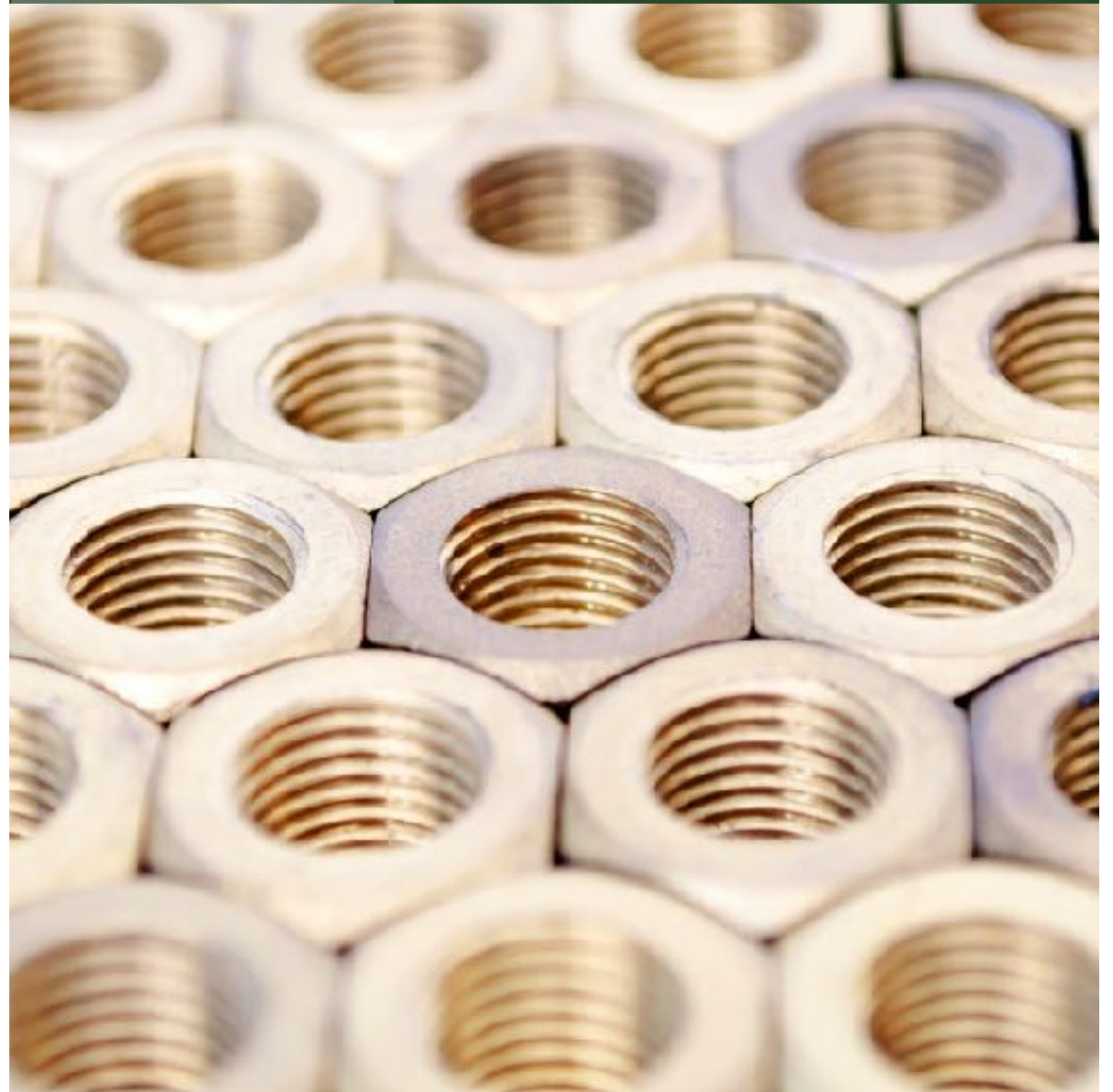
DIN 913/914/915/916

ISO 4029

B.S. 4168

GB 80

N U T S

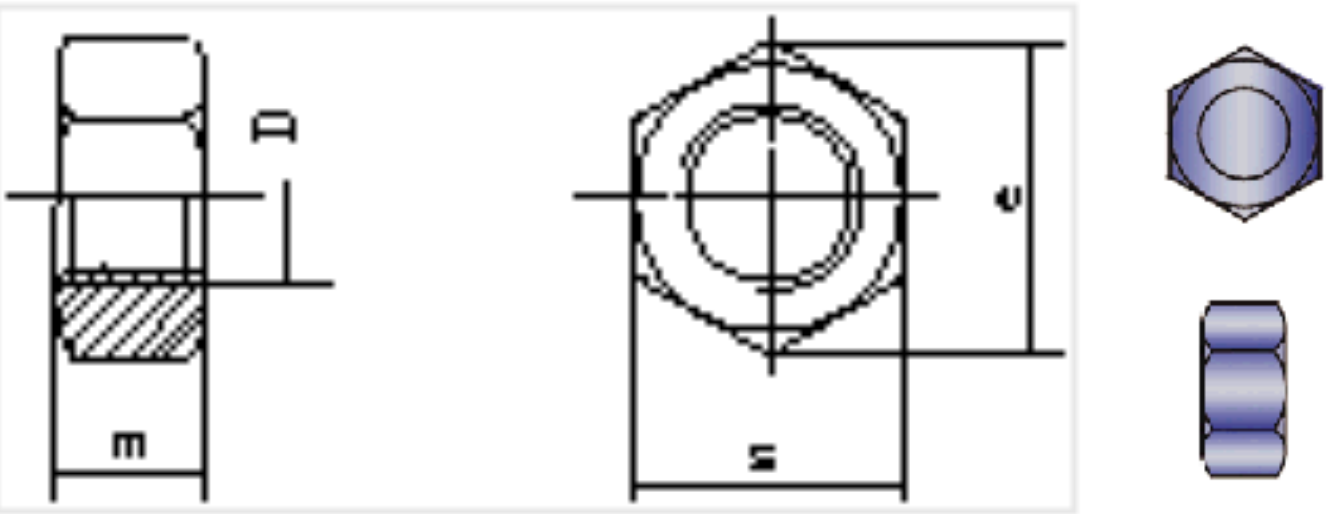


Hexagon Nuts

น๊อตหกเหลี่ยม

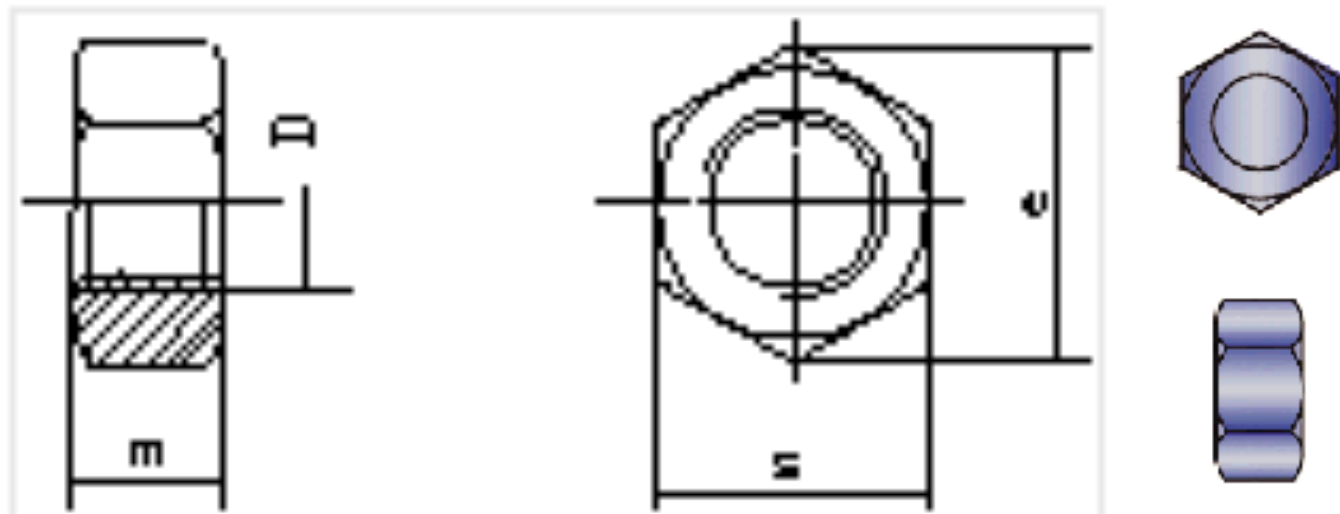
DIN 934 HEXAGON NUTS

Thread Size	Pitch	m	e	s
M2	0.4	1.6	4.32	4.0
M3	0.5	2.4	6.01	5.5
M4	0.7	3.2	7.66	7
M5	0.8	4.0	8.79	8
M6	1.0	5.0	11.05	10
M8	1.25	6.5	14.38	13
M10	1.50	8	18.90	17
M12	1.75	10	21.10	19
M16	2.0	13	26.75	24
M20	2.5	16	32.95	30
M24	3.0	19	39.55	36
M30	3.5	24	50.85	46
M36	4.0	29	60.79	55
M42	4.5	34	71.30	65
M48	5.0	38	82.60	75
M56	5.5	45	93.50	85



DIN 555 HEXAGON NUTS

Thread Size	Pitch	m	e	s
M5	0.8	4.0	8.63	8
M6	1.0	5.0	10.89	10
M8	1.25	6.5	14.20	13
M10	1.50	8	18.72	17
M12	1.75	10	20.88	19
M16	2.0	13	26.17	24
M20	2.5	16	32.95	30
M24	3.0	19	39.55	36
M30	3.5	24	50.85	46
M36	4.0	29	60.79	55
M42	4.5	34	71.30	65
M48	5.0	38	82.60	75
M56	5.5	45	93.50	85



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

DIN 934/555/6915
ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
AS 1112
UNI 5587
JIS B1181-1961/BS1181 JIS

Hexagon Nuts

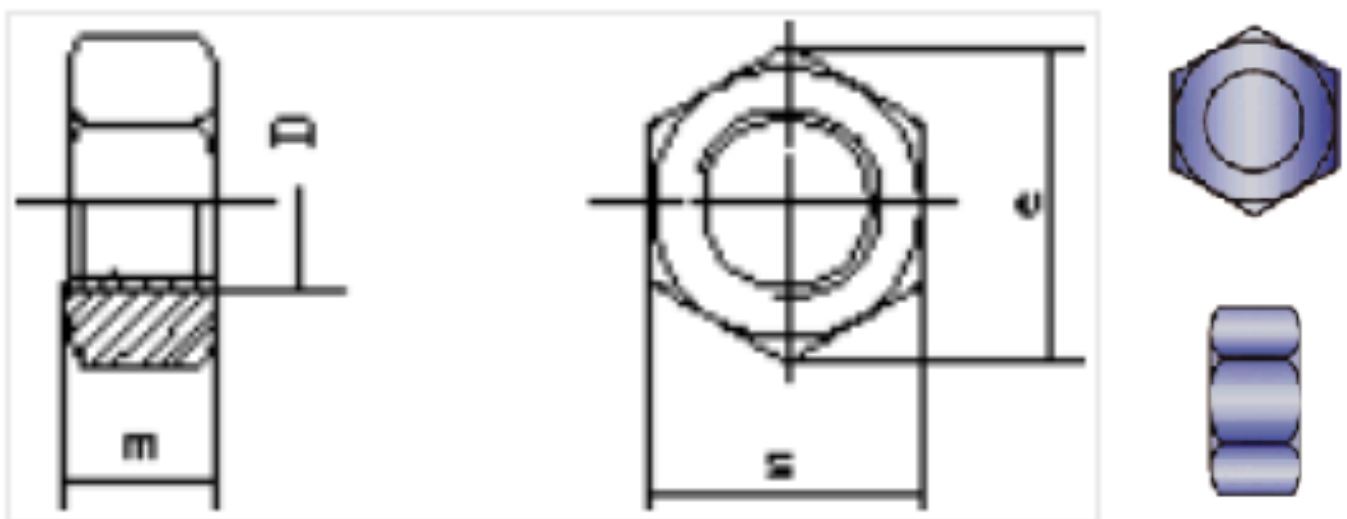
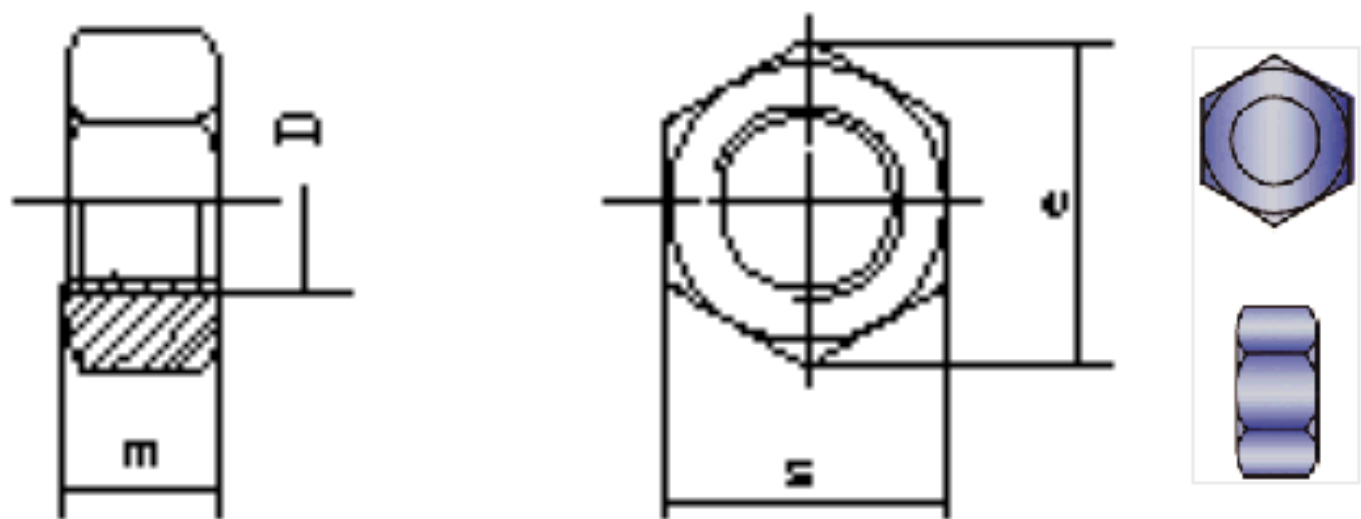
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DIN 6915 HEXAGON NUTS WITH LARGE WIDTHS ACROSS FLAT For High-Tensile Bolting in Steel Structure

Thread Size	m	e	s
M12	10	23.91	22
M16	13	29.56	27
M20	16	35.03	32
M22	18	39.55	36
M24	19	45.20	41
M27	22	50.85	46
M30	24	55.37	50
M36	29	66.44	60

ISO 4032 HEXAGON NUTS

Thread Size	Pitch	m	e	s
M2	0.4	1.6	4.32	4.0
M3	0.5	2.4	6.01	5.5
M4	0.7	3.2	7.66	7
M5	0.8	4.7	8.79	8
M6	1.0	5.2	11.05	10
M8	1.25	6.8	14.38	13
M10	1.50	8.4	17.77	16
M12	1.75	10.8	20.03	18
M16	2.0	14.8	26.75	24
M20	2.5	18.0	32.95	30
M24	3.0	21.5	39.55	36
M30	3.5	25.6	50.85	46
M36	4.0	31	60.79	55
M42	4.5	34	71.30	65
M48	5.0	38	82.60	75
M56	5.5	45	93.50	85



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

DIN 934/555/6915
ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
AS 1112
UNI 5587
JIS B1181-1961/BS1181 JIS

Hexagon Nuts

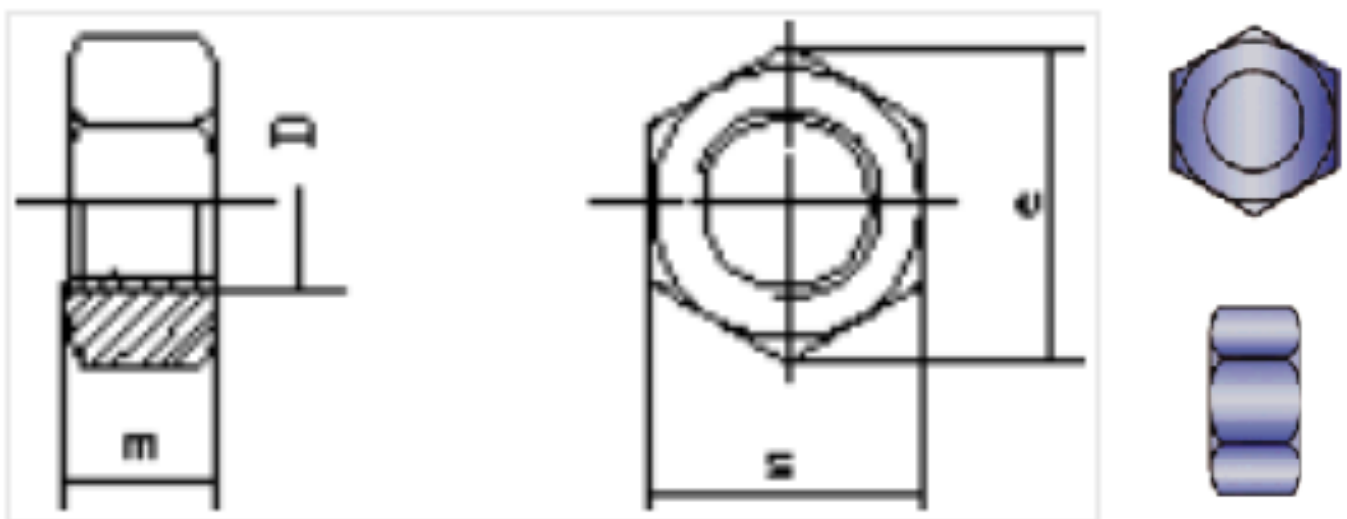
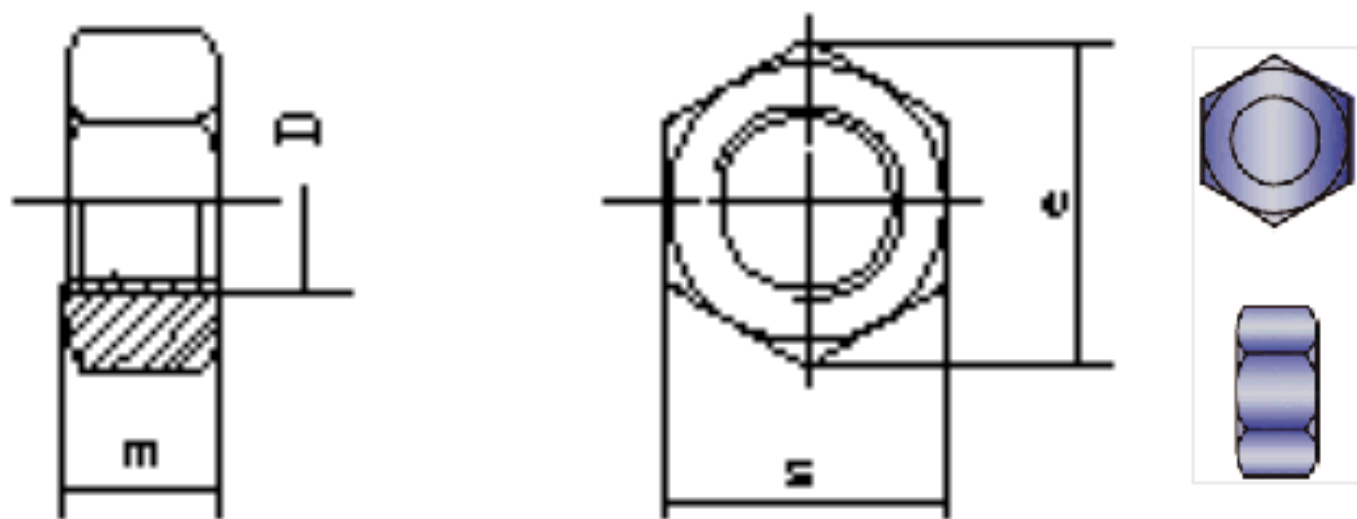
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ISO 4033 HEXAGON NUTS

Thread Size	Pitch	m	e	s
M5	0.8	5.1	8.79	8
M6	1.0	5.7	11.05	10
M8	1.25	7.5	14.38	13
M10	1.50	9.3	17.77	16
M12	1.75	12.0	20.03	18
M16	2.0	16.4	26.75	24
M20	2.5	20.3	32.95	30
M24	3.0	23.9	39.55	36
M30	3.5	28.6	50.85	46
M36	4.0	34.7	60.79	55

ISO 4034 HEXAGON NUTS

Thread Size	Pitch	m	e	s
M5	0.8	5.6	8.63	8
M6	1.0	6.1	10.89	10
M8	1.25	7.9	14.20	13
M10	1.50	9.5	17.59	16
M12	1.75	12.2	19.85	18
M16	2.0	15.9	26.17	24
M20	2.5	19.0	32.95	30
M24	3.0	22.3	39.55	35
M30	3.5	26.4	50.85	45
M36	4.0	31.5	60.79	53.8



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

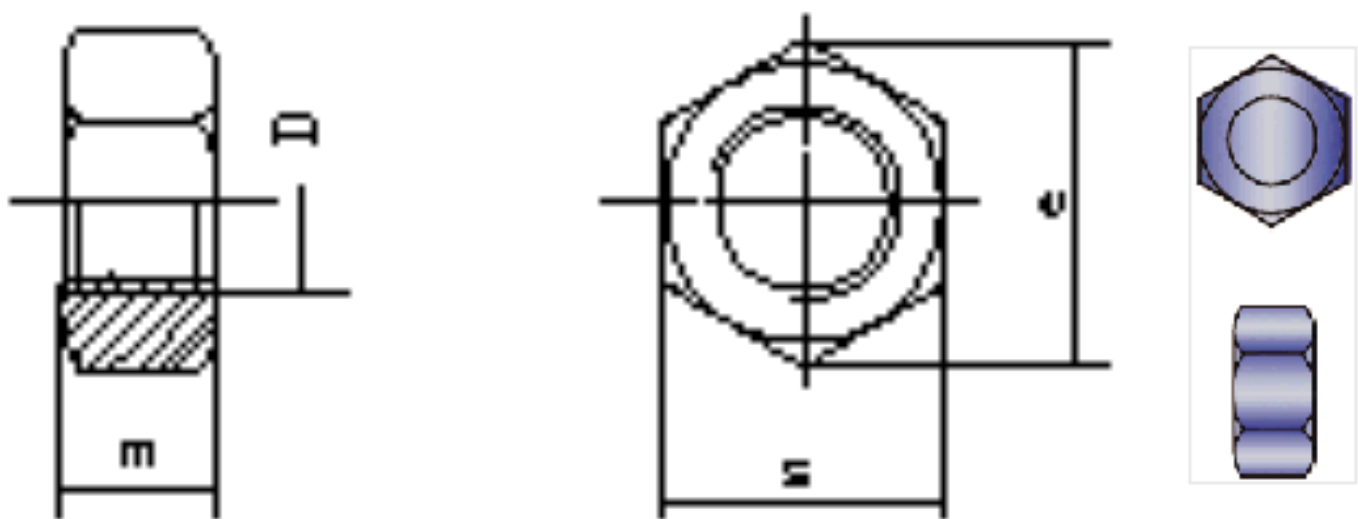
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IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
AS 1112
UNI 5587
JIS B1181-1961/BS1181 JIS

Hexagon Nuts

น๊อตหกเหลี่ยม

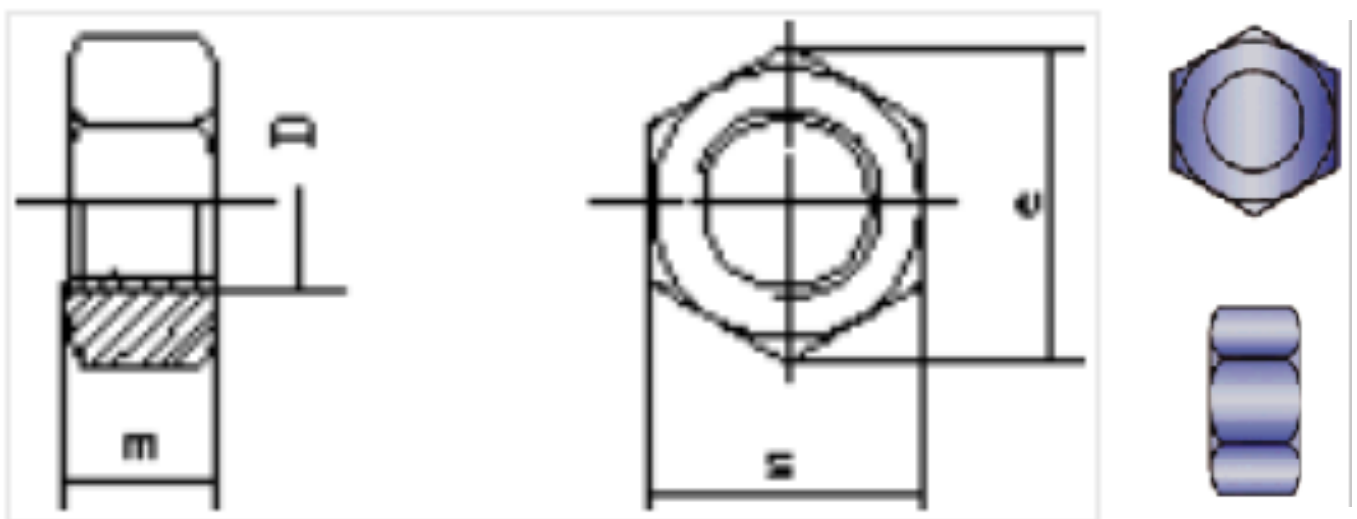
AS 1112 HEXAGON NUTS

Thread Size	Pitch	m	e	s
M2	0.4	1.6	4.32	4
M3	0.5	2.4	6.01	5.5
M4	0.7	3.2	7.66	7
M5	0.8	4.7	8.79	8
M6	1.0	5.2	11.05	10
M8	1.25	6.8	14.38	13
M10	1.50	8.4	17.77	16
M12	1.75	10.8	20.03	18
M16	2.0	14.8	26.75	24
M20	2.5	18.0	32.95	30
M24	3.0	21.5	39.55	36
M30	3.5	25.6	50.85	46
M36	4.0	31.0	60.79	55
M42	4.5	34.8	71.30	65
M48	5.0	38.8	82.60	75
M56	5.5	45.8	93.50	85



B.S. 1083 HEXAGON NUTS

Thread Size	Thread per inch	s	e	m
1/8	40	5.59	6.40	3.04
5/32	32	7.60	8.20	3.88
3/16	24	8.23	9.50	4.24
1/4	20	11.30	13.00	5.08
5/16	18	13.34	15.30	6.35
3/8	16	15.24	17.50	7.92
7/16	14	18.03	20.70	9.53
1/2	12	20.83	24.10	11.10



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

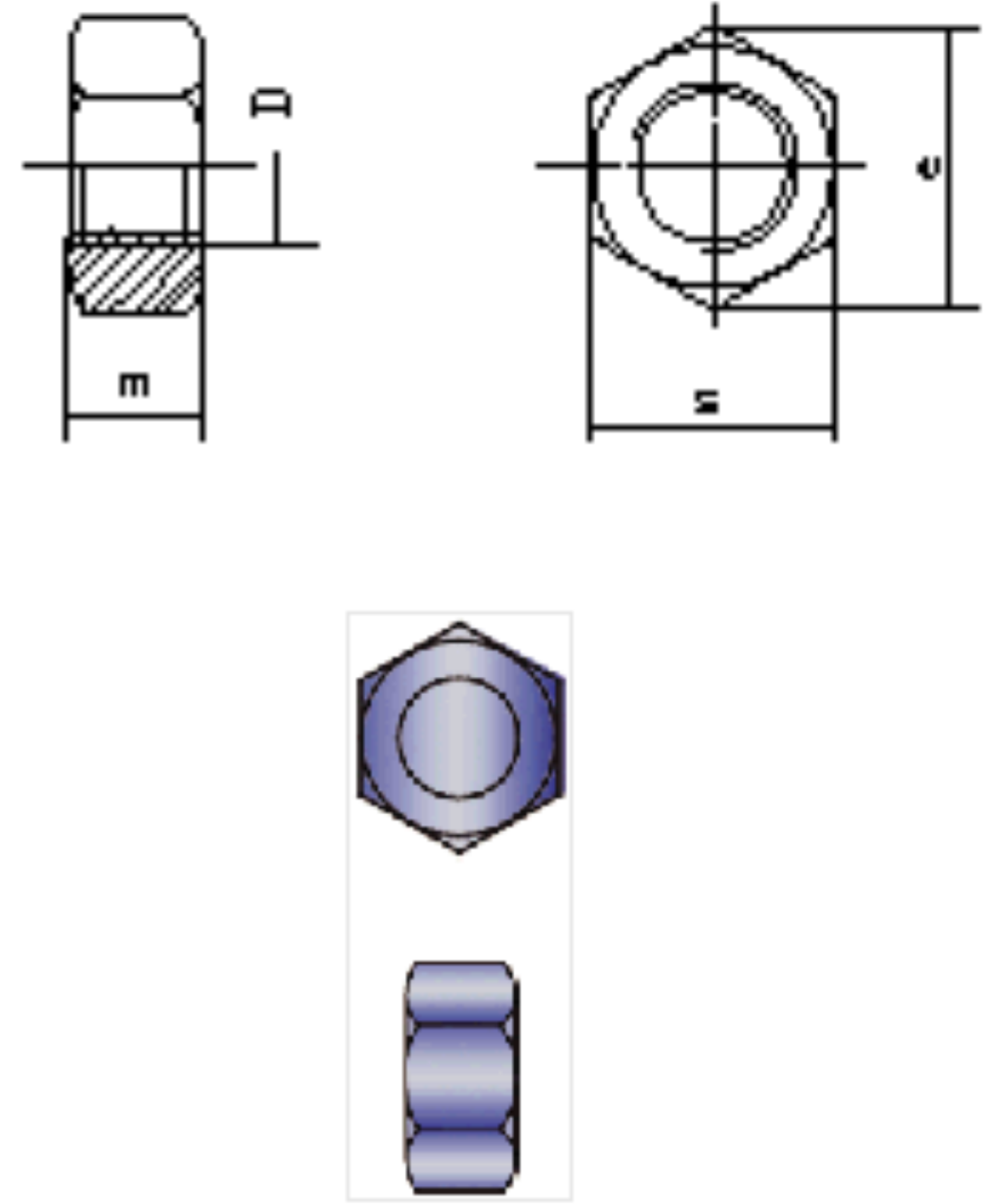
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ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
AS 1112
UNI 5587
JIS B1181-1961/BS1181 JIS

Hexagon Nuts

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UNI 5587 HEXAGON NUTS

Thread Size	m	e	s
M3	3	6.08	5.5
M4	4	7.74	7
M5	5	8.87	8
M6	6	11.05	10
M8	8	14.38	13
M10	10	18.90	17
M12	12	21.10	19
M16	16	26.75	24
M20	20	33.53	30
M24	24	39.98	36
M30	30	51.29	46



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

DIN 934/555/6915
ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
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UNI 5587
JIS B1181-1961/BS1181 JIS

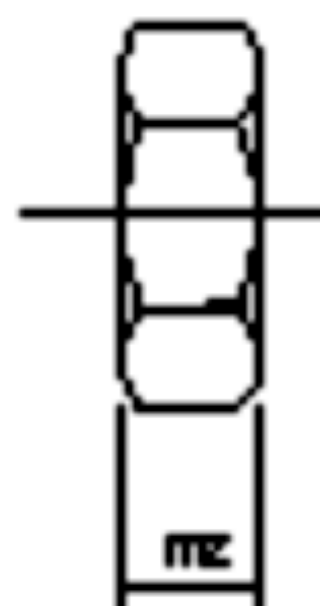
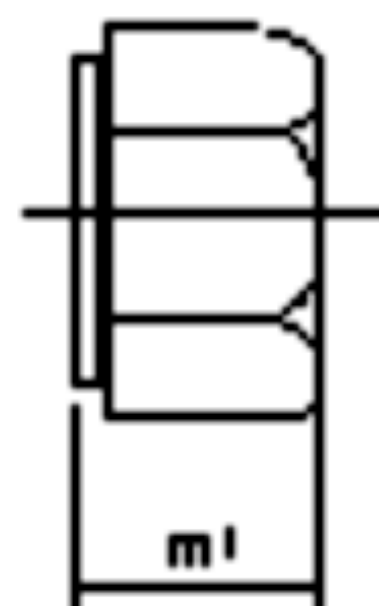
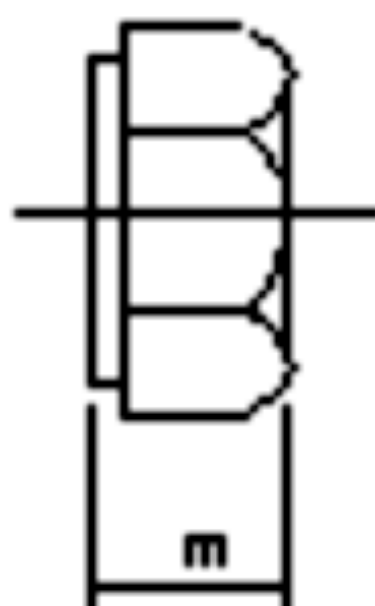
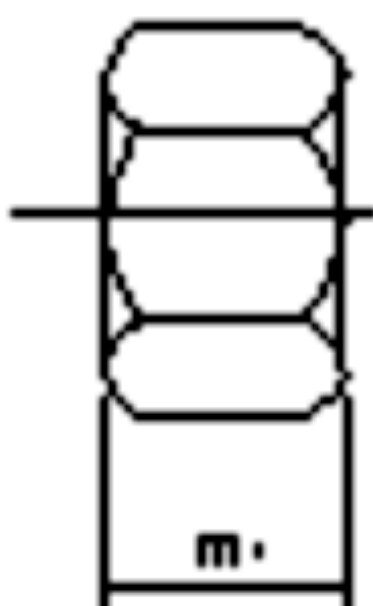
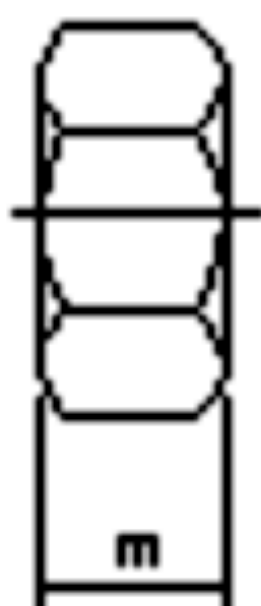
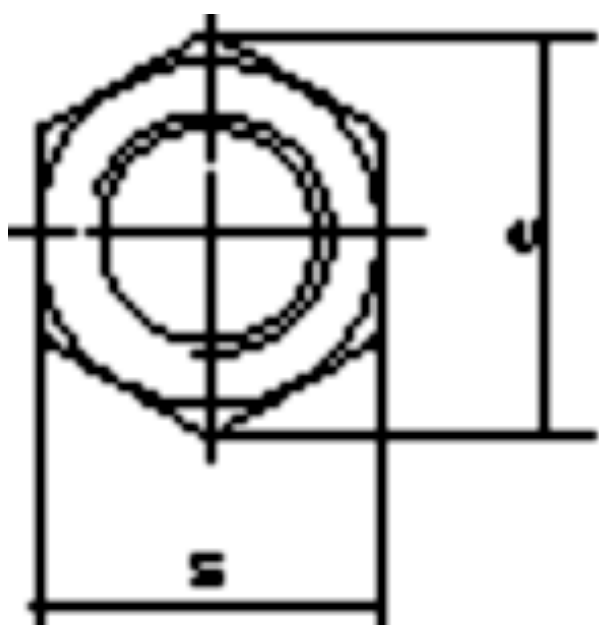
Hexagon Nuts

น๊อตหกเหลี่ยม

B.S. 1768

HEXAGON NUTS

Thread Size	e	s	m	m1	m2
1/4	0.505	0.437	0.224	0.286	0.161
5/16	0.577	0.500	0.271	0.333	0.192
3/8	0.650	0.562	0.333	0.411	0.224
7/16	0.794	0.687	0.380	0.458	0.255
1/2	0.866	0.750	0.442	0.567	0.317
9/16	1.010	0.875	0.489	0.614	0.349
5/8	1.083	0.937	0.552	0.724	0.380
3/4	1.300	1.125	0.651	0.822	0.432
7/8	1.515	1.312	0.760	0.916	0.494
1	1.732	1.500	0.874	1.015	0.562
1 1/8	1.948	1.687	0.989	1.176	0.629
1 1/4	2.165	1.875	1.087	1.275	0.744
1 3/8	2.382	2.062	1.197	1.400	0.806
1 1/2	2.598	2.250	1.311	1.530	0.874
1 3/4	3.031	2.625	1.530	-	0.999
2	3.461	3.000	1.754	-	1.129



MATERIALS

CARBON STEEL

5 / 8 / 10

STAINLESS STEEL

STANDARD

DIN 934/555/6915

ISO 4032/4033/4034

B.S. 916/1083/1768/1769

IFI D-5/D-6/D-8/D-12/D-14

GB 80

G.B.41/6170

AS 1112

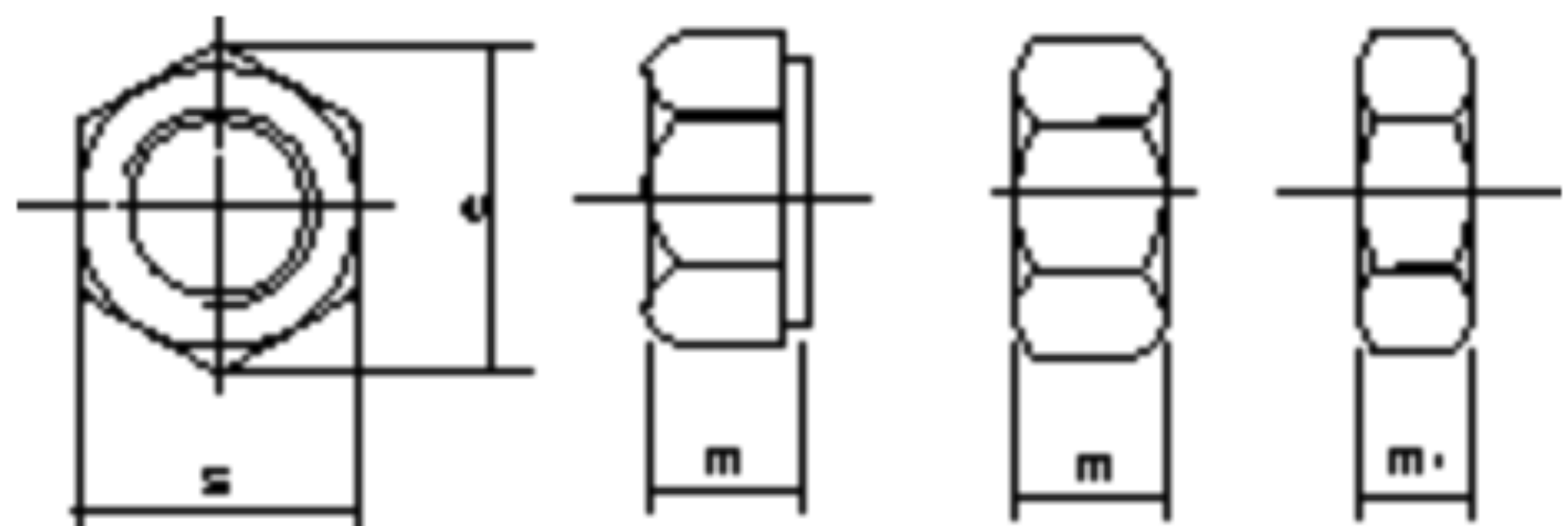
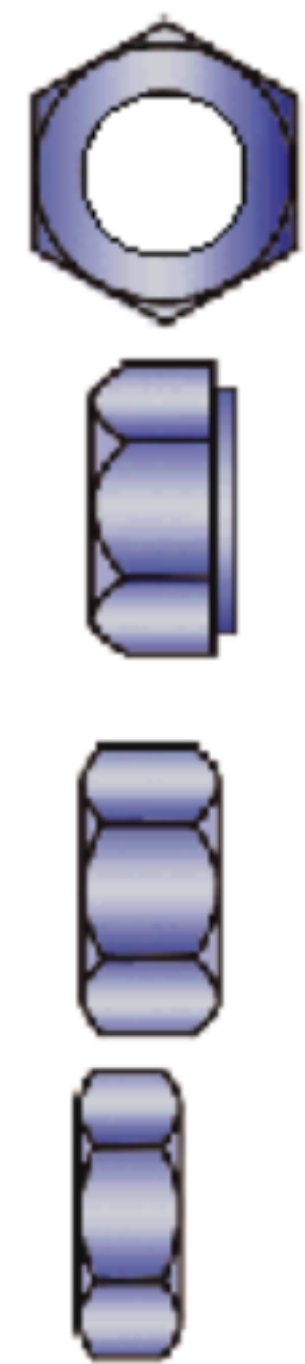
UNI 5587

JIS B1181-1961/BS1181 JIS



B.S. 1769
HEXAGON NUTS

Thread Size	P UNC	P UNF	e	s	m	m1
1/2	13	20	1.01	0.875	0.520	0.332
5/8	11	18	1.23	1.062	0.647	0.397
3/4	10	16	1.44	1.250	0.774	0.462
7/8	9	14	1.66	1.437	0.901	0.526
1	8	12	1.88	1.625	1.028	0.590
1 1/8	7	12	2.09	1.812	1.155	0.655
1 1/4	7	12	2.31	2.000	1.282	0.782
1 3/8	6	12	2.53	2.187	1.409	0.846
1 1/2	6	12	2.74	2.375	1.536	0.911
1 3/4	5	-	3.18	2.750	1.790	1.040
2	4 1/2	-	3.61	3.125	2.044	1.169



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

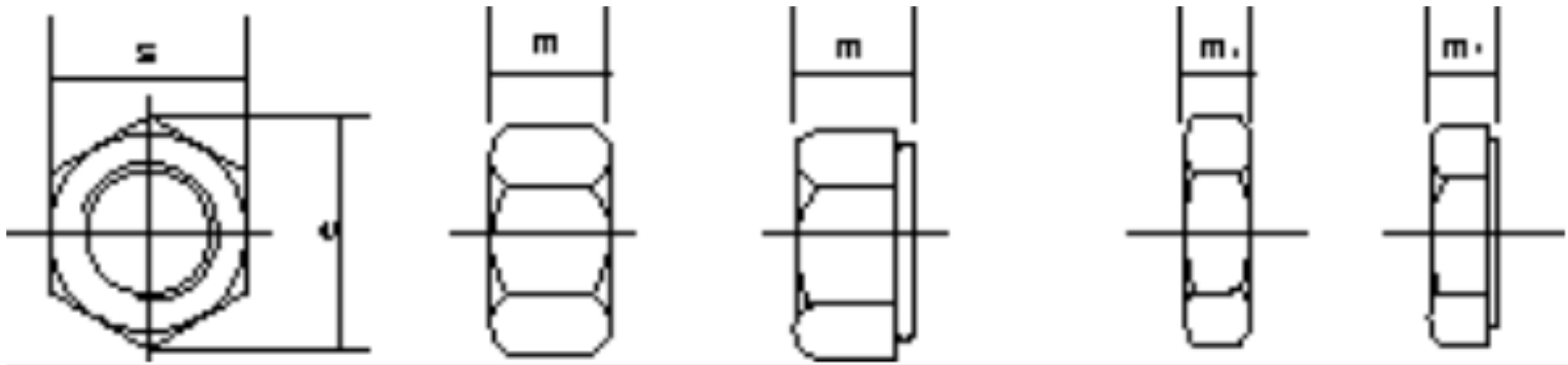
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B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
AS 1112
UNI 5587
JIS B1181-1961/BS1181 JIS

Hexagon Nuts

น๊อตหกเหลี่ยม

IFI D-5 (D-6) HEAVY HEX NUTS & HEAVY HEX JAM NUTS

Thread Size	Thread per inch	s	e	m	m1
1/4	20	7/16	0.488	7/32	5/32
5/16	18	1/2	0.557	17/64	3/16
3/8	16	9/16	0.628	21/64	7/32
7/16	14	11/16	0.768	3/8	1/4
1/2	13	3/4	0.840	7/16	5/16
9/16	12	7/8	0.892	31/64	5/16
5/8	11	15/16	1.051	32/64	3/8
3/4	10	11/8	1.240	41/64	27/64
7/8	9	1 15/16	1.447	3/4	31/64
1	8	1 1/2	1.653	55/64	35/64
1 1/8	7	1 11/16	1.859	31/32	39/64
1 1/4	7	1 7/8	2.066	1 1/16	23/32
1 3/8	6	2 1/16	2.273	1 11/16	25/32
1 1/2	6	2 1/4	2.480	1 9/32	27/32



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

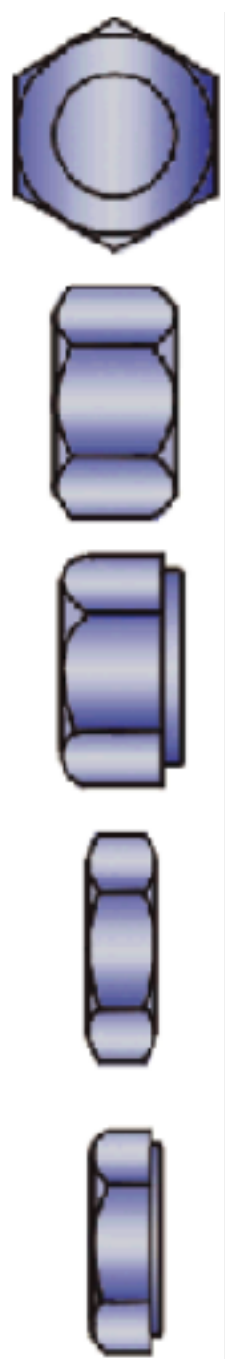
STANDARD

DIN 934/555/6915
ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
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JIS B1181-1961/BS1181 JIS

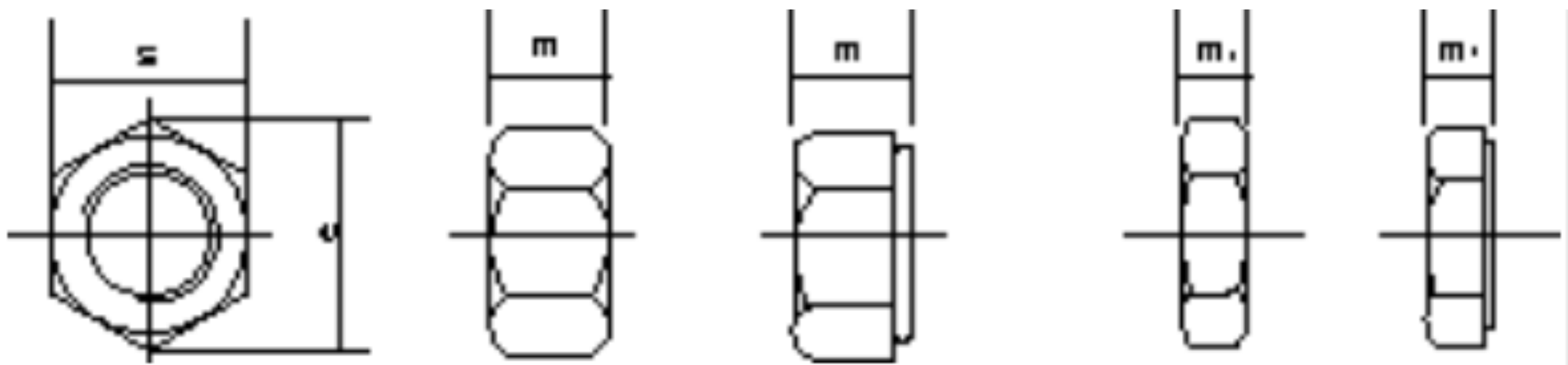
Hexagon Nuts

น๊อตหกเหลี่ยม

IFI D-14 (D-12)
HEAVY HEX NUTS &
HEAVY HEX JAM NUTS



Thread Size	Thread per inch	s	e	m	m1
1/4	20	1/2	0.556	15/64	11/64
5/16	18	9/16	0.622	19/64	13/64
3/8	16	11/16	0.763	23/64	15/64
7/16	14	3/4	0.830	27/64	17/64
1/2	13	7/8	0.969	31/64	19/64
9/16	12	15/16	1.037	35/64	21/64
5/8	11	1 1/16	1.175	39/64	23/64
3/4	10	1 1/4	1.382	47/64	27/64
7/8	9	1 7/16	1.589	55/64	31/64
1	8	1 5/8	1.796	63/64	35/64
1 1/8	7	1 13/16	2.002	1 7/64	39/64
1 1/4	7	2	2.209	1 7/32	23/64
1 3/8	6	2 3/16	2.416	1 11/32	25/32
1 1/2	6	2 3/8	2.622	1 5/32	27/32
1 5/8	8	2 9/16	2.828	1 19/32	29/32
1 3/4	5	2 3/4	3.035	1 23/32	3 1/32
1 7/8	8	2 15/16	3.242	1 27/32	1 1/32
2	4 1/2	3 1/8	3.449	1 31/32	1 13/32
2 1/4	4 1/2	3 1/2	3.862	2 13/64	1 13/64
2 1/2	4	3 7/8	4.275	2 29/64	1 29/64



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

DIN 934/555/6915
ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
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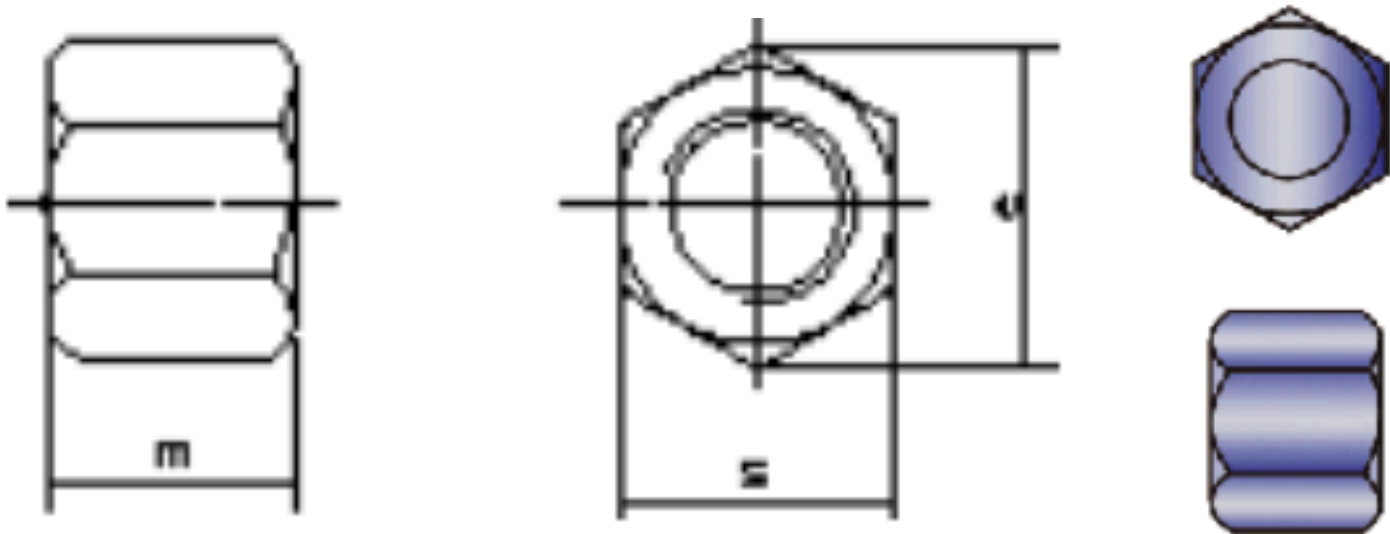


Hexagon Nuts

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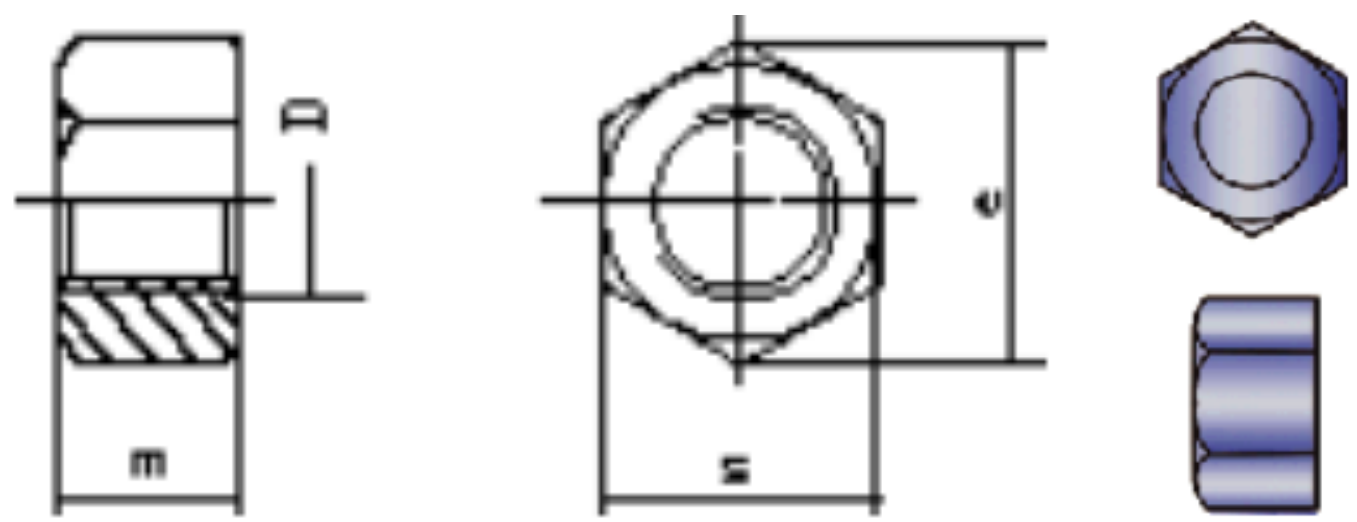
IFI D-8 HEXAGON NUTS

Thread Size	Thread per inch	s	e	m
1/4	20	7/16	0.488	9/32
5/16	18	1/2	0.557	21/64
3/8	16	9/16	0.628	13/32
7/16	14	11/16	0.768	29/64
1/2	13	3/4	0.840	9/16
9/16	12	7/8	0.892	39/64
5/8	11	15/16	1.051	23/32
3/4	10	11/8	1.240	13/16
7/8	9	1 15/16	1.447	29/32
1	8	1 1/2	1.653	1
1 1/8	7	1 11/16	1.859	1 5/32
1 1/4	7	1 7/8	2.066	1 1/4
1 3/8	6	2 1/16	2.273	1 3/8
1 1/2	6	2 1/4	2.480	1 1/2



B.S. 916 BLACK MILD STEEL HEX NUTS

Thread Size	Thread per inch	s	e	m
5/8	11	25.65	29.50	14.78
3/4	10	30.48	35.10	17.96
7/8	9	33.02	38.00	19.81
1	8	37.59	43.20	23.00
1 1/8	7	42.42	48.80	26.16
1 1/4	7	47.24	54.30	29.59
1 3/8	6	52.07	59.90	32.76
1 1/2	6	56.39	64.90	35.94
1 3/4	5	65.53	75.40	42.55
2	4 1/2	70.10	80.60	45.72



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

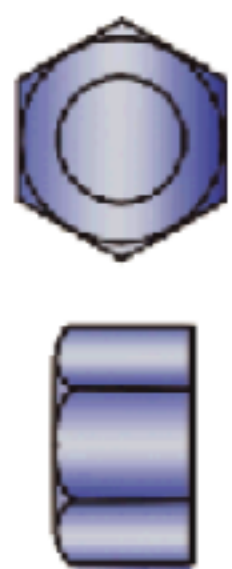
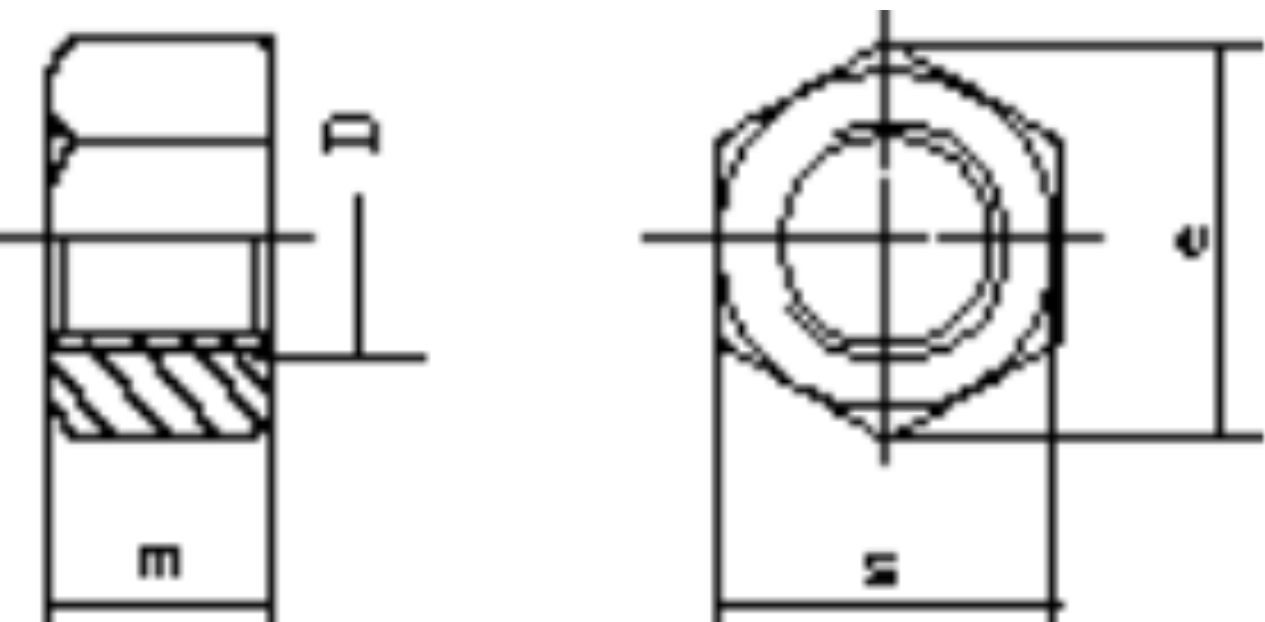
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ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
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JIS B1181-1961/BS1181 JIS

Hexagon Nuts

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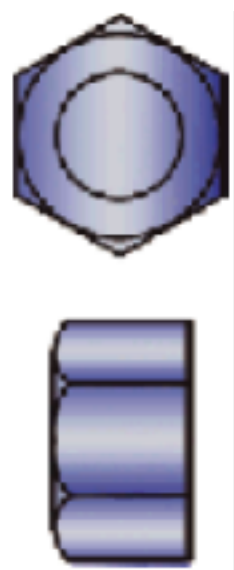
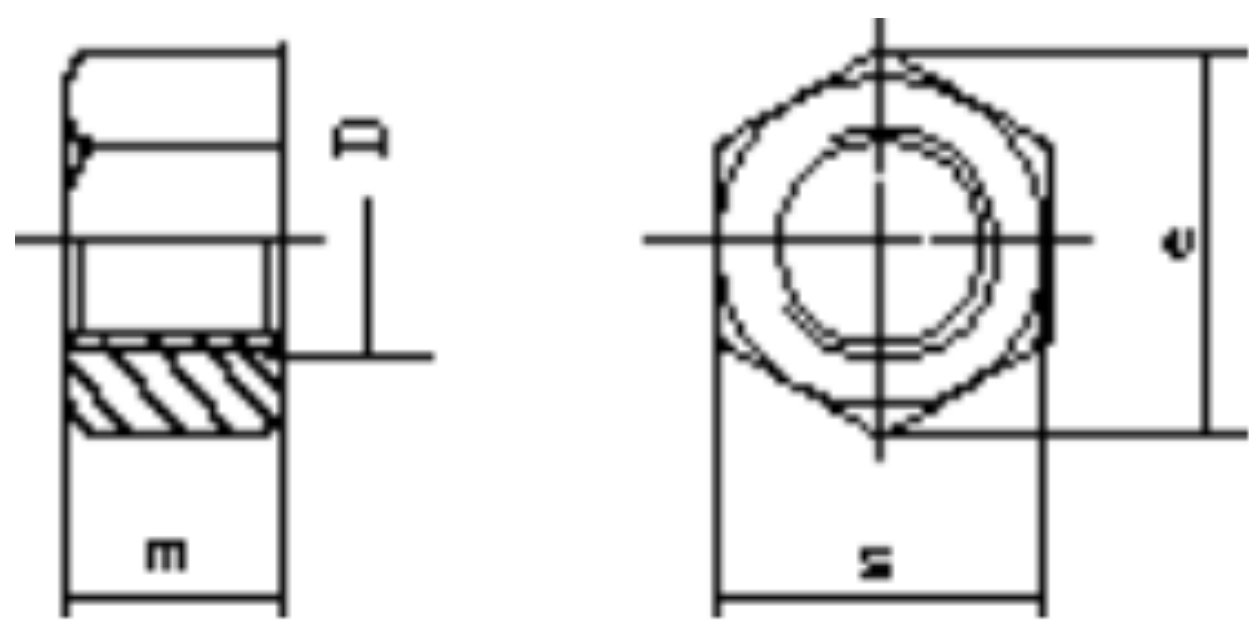
B1181-1961 JIS HEXAGON NUTS

Thread Size	m	e	s
3/8	8	19.6	17
7/16	9	21.9	19
1/2	10	24.2	21
5/8	13	30.0	26
3/4	16	37.0	32
7/8	18	40.4	35



B1181 JIS HEXAGON NUTS

Thread Size	s	e	m
M6	10	11.5	5
M8	13	15	5.6
M10	17	19.6	8
M12	19	21.9	10
M16	24	27.7	13
M20	30	34.6	16
M24	36	41.6	19



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

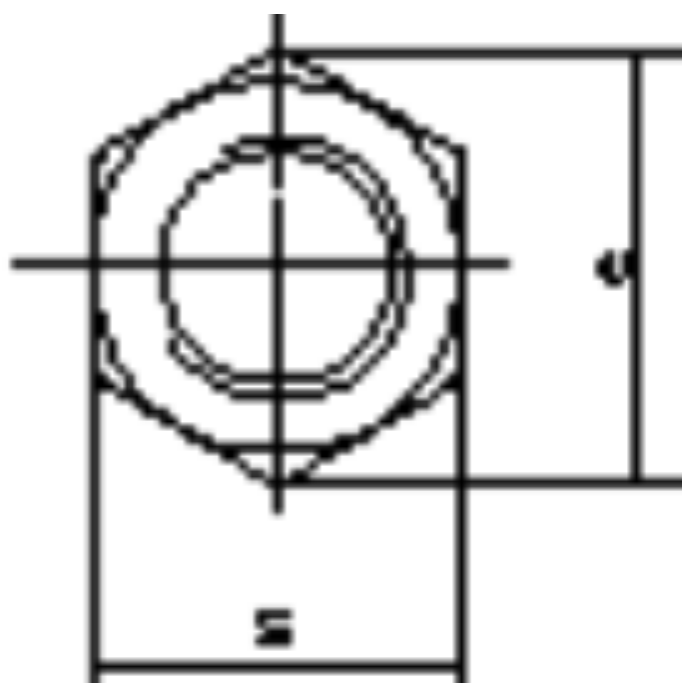
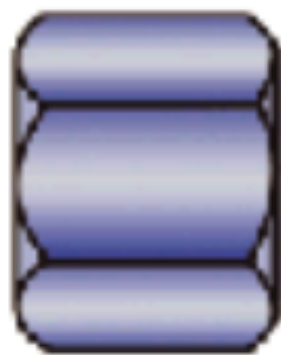
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GB 80
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JIS B1181-1961/BS1181 JIS

Hexagon Nuts

น๊อตหกเหลี่ยม

METRIC DIMENSIONS NUTS WITH UNC OR BSW THREAD

Thread Size	Thread Per inch UNC	Thread Per inch BSW	m	e	s
1/8	40	40	2.4	6.01	5.5
3/16	24	24	4.0	8.79	8
1/4	20	20	5.0	11.05	10
5/16	18	18	6.5	14.38	13
3/8	16	16	8	18.90	17
7/16	14	14	8	18.90	17
1/2	13	12	10	21.10	19
9/16	12	12	11	24.49	22
5/8	11	11	13	26.75	24
3/4	10	10	14	29.56	27
7/8	9	9	18	35.03	32
1	8	8	19	39.55	36



MATERIALS

CARBON STEEL
5 / 8 / 10
STAINLESS STEEL

STANDARD

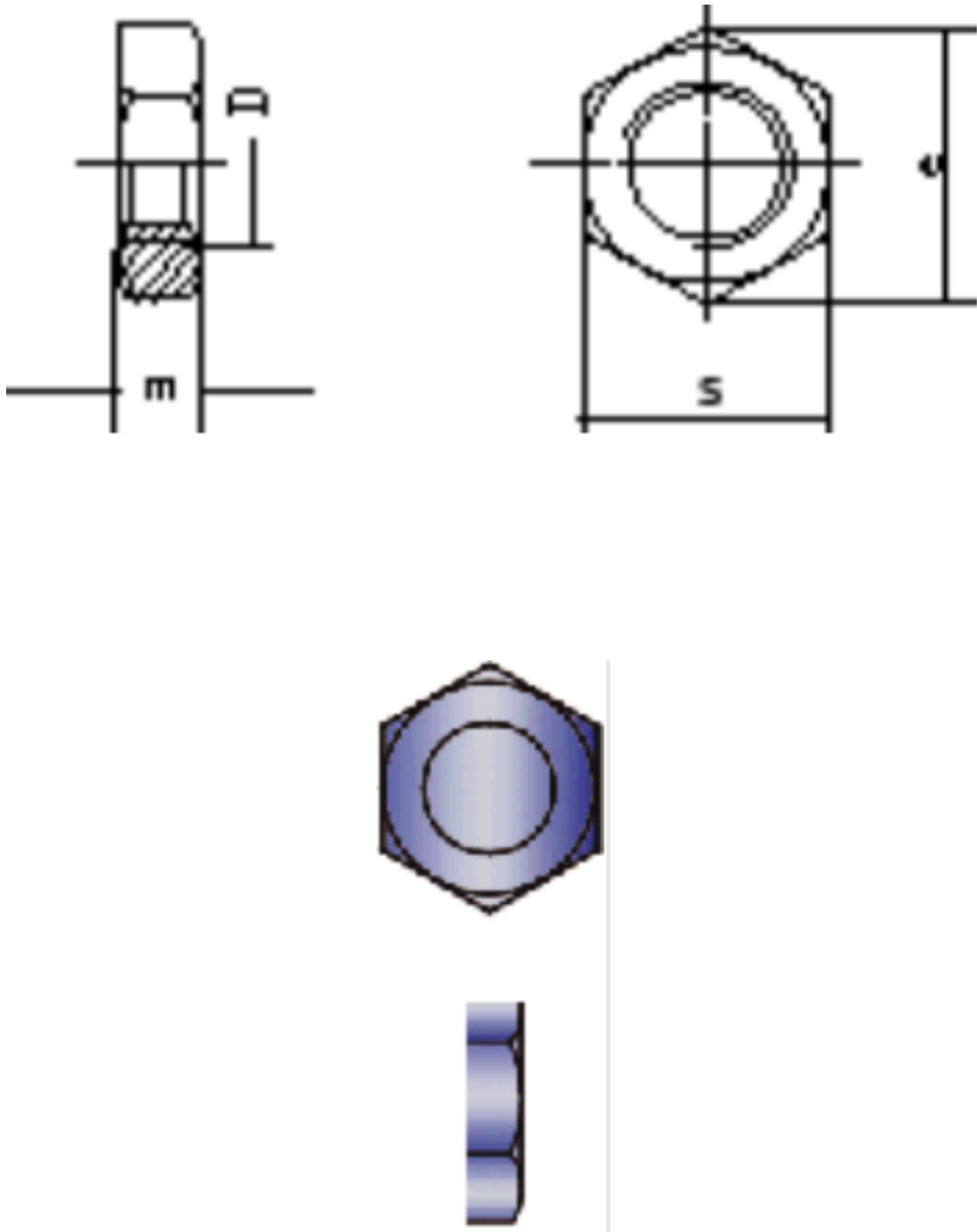
DIN 934/555/6915
ISO 4032/4033/4034
B.S. 916/1083/1768/1769
IFI D-5/D-6/D-8/D-12/D-14
GB 80
G.B.41/6170
AS 1112
UNI 5587
JIS B1181-1961/BS1181 JIS

Hexagon Thin Nuts

น๊อตหกเหลี่ยมบาง

DIN 439 CHAMFERED HEXAGON THIN NUTS

Thread Size	Pitch	m	e	s
M3	0.5	1.8	6.01	5.5
M4	0.7	2.2	7.66	7
M5	0.8	2.7	8.79	8
M6	1.0	3.2	11.05	10
M8	1.25	4	14.38	13
M10	1.50	5	18.90	17
M12	1.75	6	21.10	19
M16	2.00	8	26.75	24
M20	2.50	10	32.95	30
M24	3.00	12	39.55	36
M30	3.50	15	50.85	46
M36	4.00	18	60.79	55
M42	4.50	21	71.30	65
M48	5.00	24	82.60	75



MATERIALS

CARBON STEEL
5 / 8
STAINLESS STEEL

STANDARD

DIN 439/936
ISO 4035/1036
GB 6172

Hexagon Thin Nuts

น็อตหกเหลี่ยมบาง

ISO 4035

HEXAGON THIN NUTS

Thread Size	Pitch	m	e	s
M10	1.50	5	17.77	16
M12	1.75	6	20.03	18
M14	2.00	7	23.35	21
M22	2.50	11	37.29	24

MATERIALS

CARBON STEEL

5 / 8

STAINLESS STEEL

STANDARD

DIN 439/936

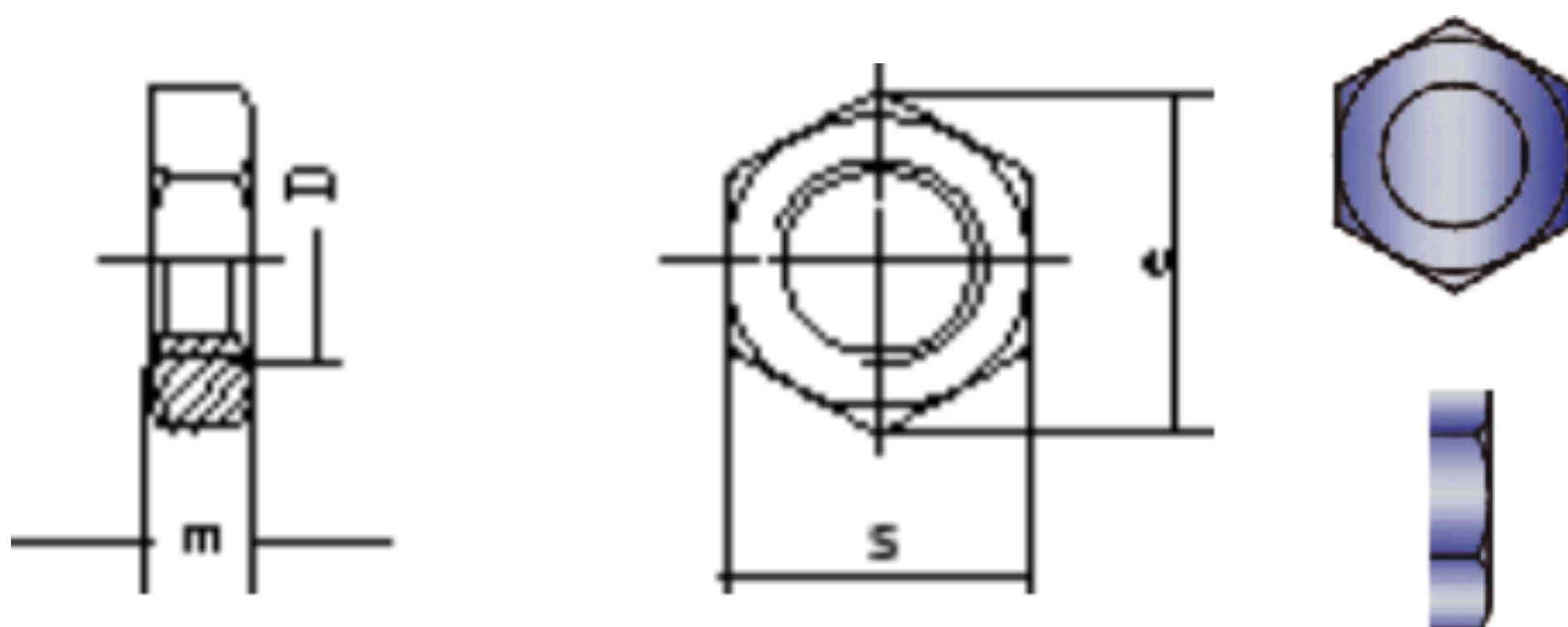
ISO 4035/1036

GB 6172

DIN 936

HEXAGON THIN NUT

Thread Size	Pitch	m	e	s
M8	1.25	5	14.38	13
M10	1.50	6	18.90	17
M12	1.75	7	21.10	19
M16	2.00	8	26.75	24
M20	2.50	9	32.95	30
M24	3.00	10	39.55	36
M30	3.50	12	50.85	46
M36	4.00	14	60.79	55
M42	4.50	16	71.30	65
M48	5.00	18	82.60	75

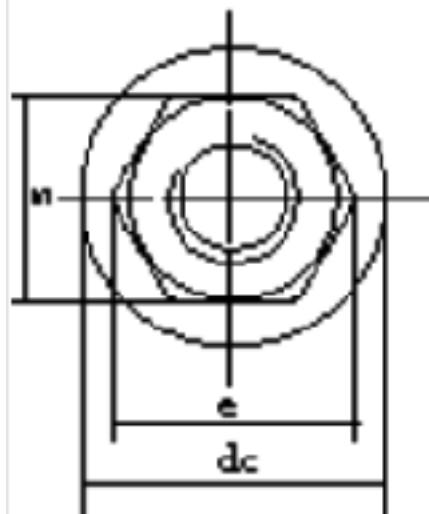
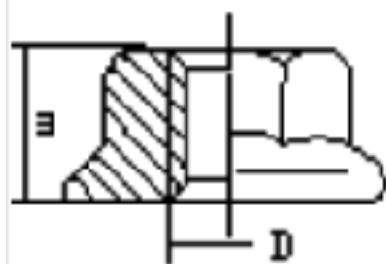
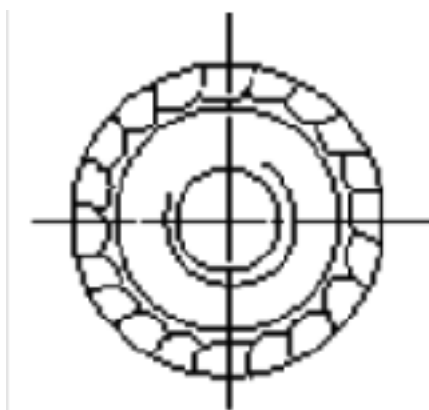


Hexagon Nuts With Flange

น๊อตหกเหลี่ยมหัวจาน

DIN 6923 HEXAGON NUTS WITH FLANGE

Thread Size	Pitch	m	e	s	dc
M5	0.8	5	8.79	8	11.8
M6	1.0	6	11.05	10	14.2
M8	1.25	8	14.38	13	17.9
M10	1.50	10	16.64	15	21.8
M12	1.75	12	20.03	18	26.0
M14	2.00	14	23.36	21	29.9
M16	2.00	16	26.75	24	34.5
M20	2.50	20	32.95	30	42.8



IFI D-21 HEX FLANGE NUTS

Thread Size	Thread per inch	m	e	s	dc
10	24	0.219	0.416	0.365	0.500
12	24	0.236	0.488	0.428	0.594
1/4	20	0.236	0.488	0.428	0.594
5/16	18	0.283	0.557	0.489	0.680
3/8	16	0.347	0.628	0.511	0.750
7/16	14	0.395	0.768	0.675	0.937
1/2	13	0.458	0.840	0.736	1.031
9/16	12	0.506	0.982	0.861	1.188
5/8	11	0.569	1.051	0.922	1.281
3/4	10	0.675	1.240	1.088	1.500



MATERIALS

CARBON STEEL
5 / 8

STANDARD

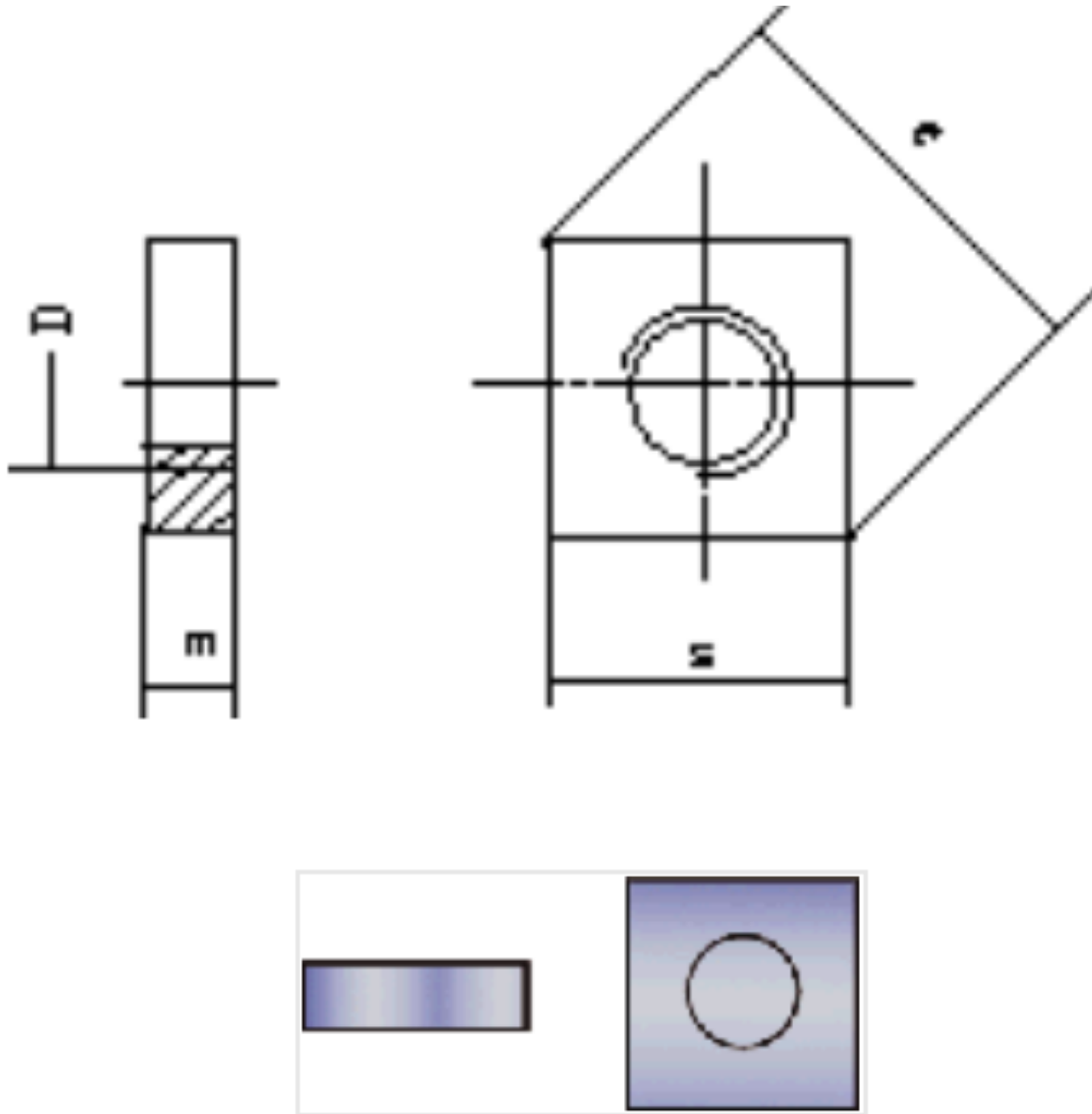
DIN 6923
ISO 4161
IFI D-21
G.B. 6177

Square Nuts

น๊อตสี่เหลี่ยม

DIN 562 SQUARE THIN NUTS

Thread Size	Pitch	m	e	s
M2	0.4	1.2	5	4.0
M3	0.5	1.8	7	5.5
M4	0.7	2.2	8.9	7.0
M5	0.8	2.7	10.2	8.0
M6	1.0	3.2	12.7	10
M8	1.25	4.0	16.5	13
M10	1.50	5.0	20.2	16
			21.5	17



IFI D-26 SQUARE MACHINE SCREW NUTS

Thread Size	Thread per inch	m	e	s
6	32	0.114	0.415	5/16
8	32	0.130	0.456	11/32
10	24	0.130	0.497	3/8
12	24	0.161	0.581	7/16
1/4	20	0.193	0.581	7/16
5/16	18	0.225	0.784	9/16
3/8	16	0.257	0.833	5/8

Thread Size	Thread per inch	m	e	s
1/8	40	2.13	7.9	5.59
5/32	32	2.74	10.1	7.16
3/16	24	3.12	11.6	8.23
1/4	20	3.38	15.9	11.30

MATERIALS

CARBON STEEL

5 / 8

STANDARD

DIN 562/557

IFI D-3/D-12/D-26



Square Nuts

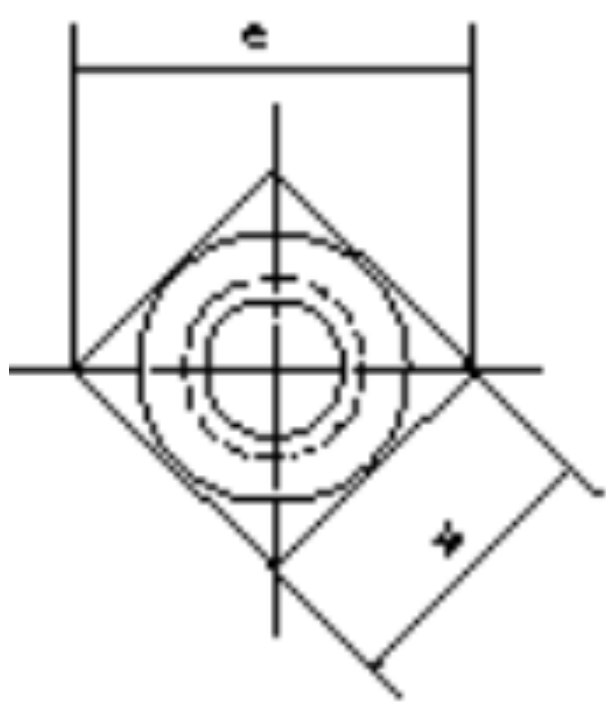
น๊อตสี่เหลี่ยม

IFI D-3 SQUARE THIN NUTS

Thread Size	Thread per inch	m	e	s
1/4	20	7/32	0.554	7/16
5/16	18	17/64	0.721	9/16
3/8	16	21/64	0.802	5/8
7/16	14	3/8	0.970	3/4
1/2	13	7/16	1.052	13/16
5/8	11	35/64	1.300	1
3/4	10	21/32	1.464	1 1/8
7/8	9	49/64	1.712	1 5/16
1	8	7/8	1.961	1 1/2
1 1/8	7	1	2.209	1 11/16
1 1/4	7	1 3/32	2.458	1 7/8
1 3/8	6	1 13/64	2.708	2 1/16
1 1/2	6	1 5/16	2.956	2 1/4

IFI D-12 HEAVY SQUARE NUTS

Thread Size	Thread per inch	m	e	s
1/4	20	1/4	0.640	1/2
5/16	18	5/16	0.720	9/16
3/8	16	3/8	0.889	11/16
7/16	14	7/16	0.970	3/4
1/2	13	1/2	1.137	7/8
5/8	11	5/8	1.386	1 1/16
3/4	10	3/4	1.635	1 1/4
7/8	9	7/8	1.884	1 7/16
1	8	1	3.132	1 5/8
1 1/8	7	1 1/8	2.381	1 13/16
1 1/4	7	1 1/4	2.631	2
1 3/8	6	1 3/8	2.879	2 3/16
1 1/2	6	1 1/2	3.128	2 3/8



MATERIALS

CARBON STEEL
5 / 8

STANDARD

DIN 562/557
IFI D-3/D-12/D-26

Square Nuts

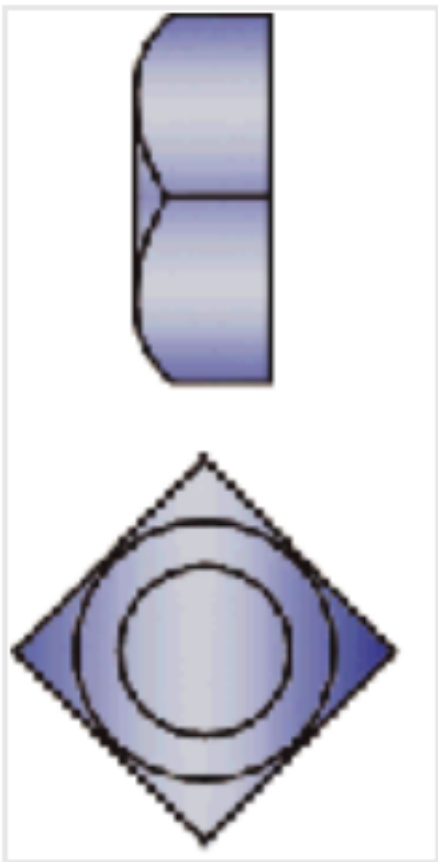
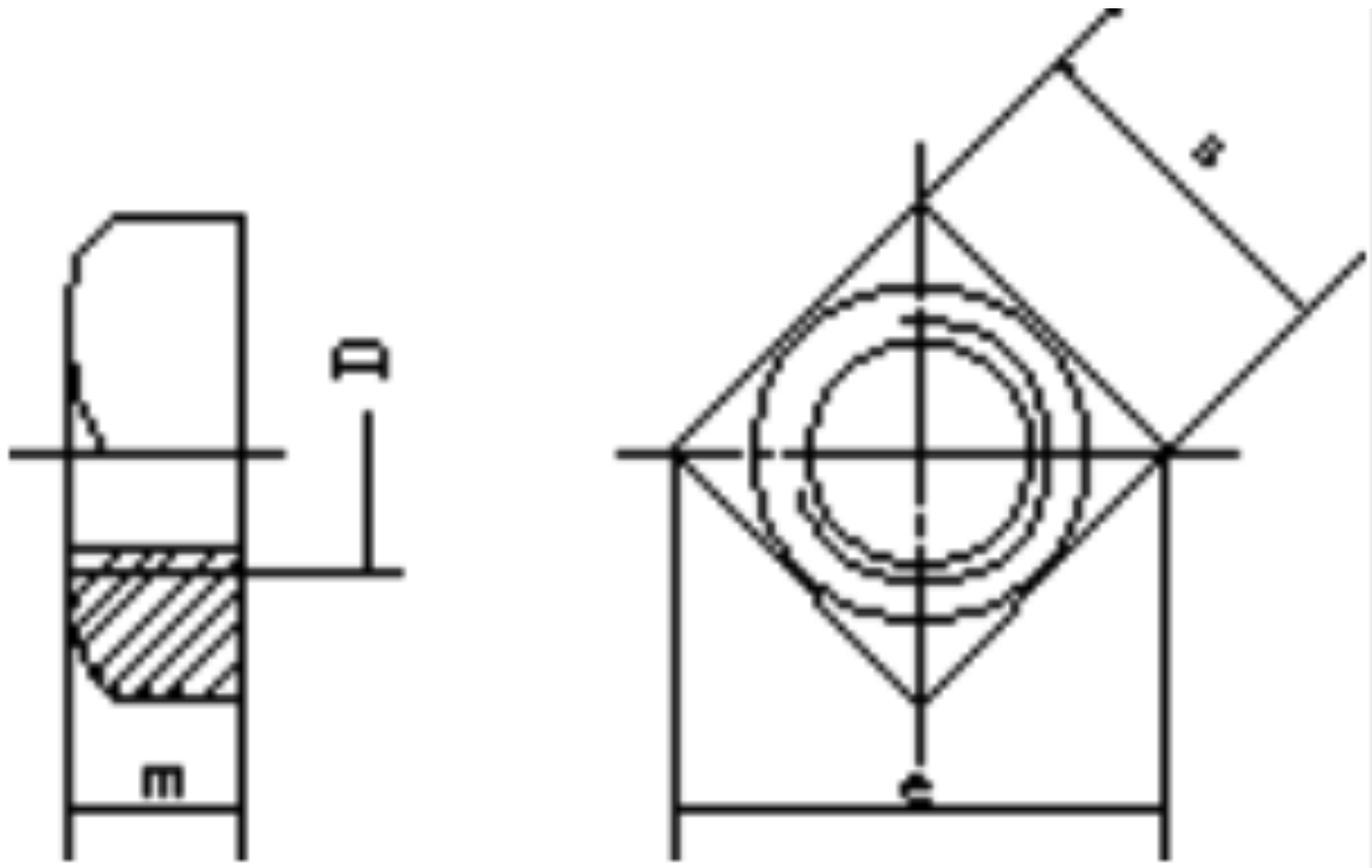
น๊อตสี่เหลี่ยม

DIN 557 SQUARE NUTS

Thread Size	Pitch	m	e	s
M5	0.8	4.0	11.3	8
M6	1.0	5.0	14.1	10
M8	1.25	6.5	18.4	13
M10	1.50	8.0	22.6	16
			24.0	17
M12	1.75	10.0	25.4	18
			26.9	19
M16	2.00	13.0	32.9	24
M20	2.50	16.0	42.4	30

BS SQUARE NUTS

Thread Size	Thread per inch	m	e	s
3/16	24	4.24	11.6	8.23
1/4	20	5.08	15.9	11.3
5/16	18	6.35	18.9	13.34
3/8	16	7.92	21.5	15.24
7/16	14	9.53	25.4	18.03
1/2	12	11.10	29.4	20.83



MATERIALS

CARBON STEEL
5 / 8

STANDARD

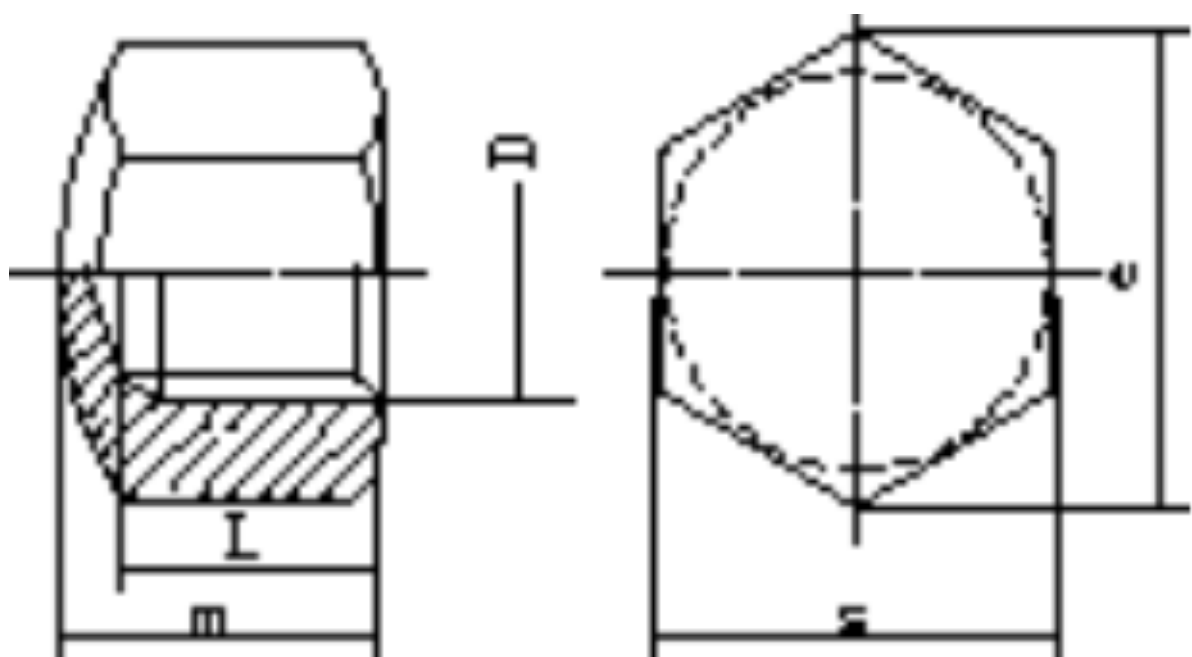
DIN 562/557
IFI D-3/D-12/D-26

Hexagon Cap Nuts

น็อตหัวหก

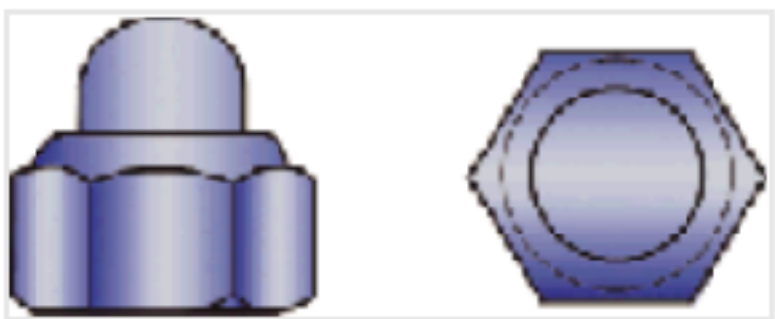
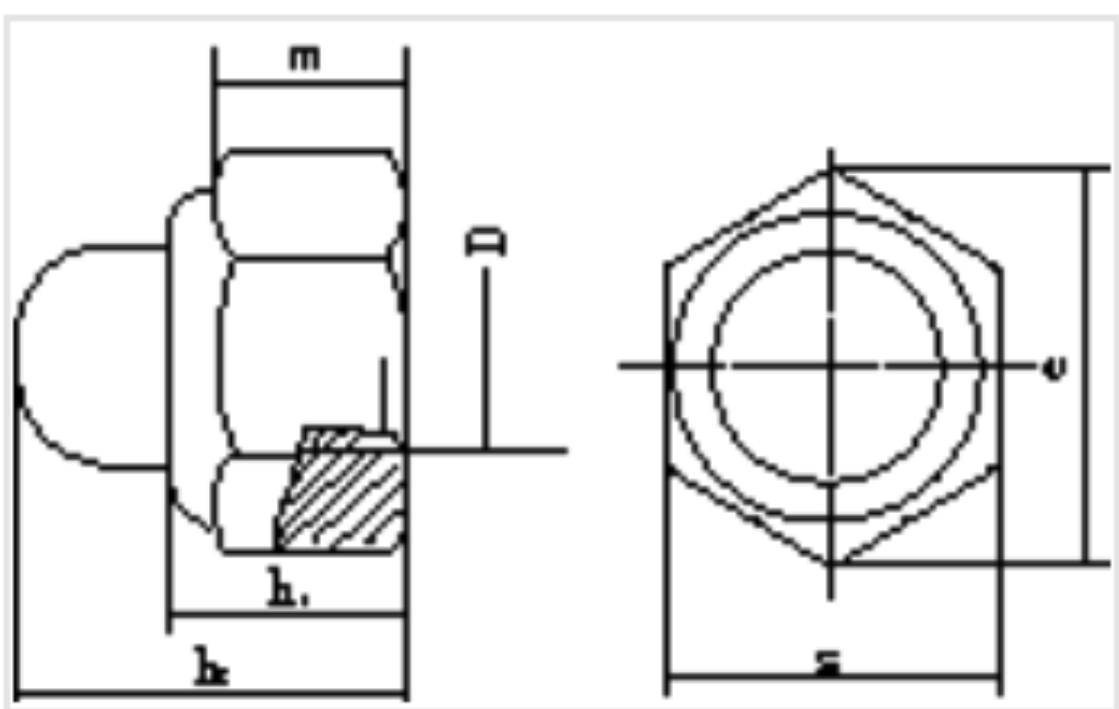
DIN 917 HEXAGON CAP NUTS

Thread Size	m	e	s	L
M4	5.5	7.66	7	4.16
M5	7	8.79	8	4.96
M6	9	11.05	10	6.71
M8	12	14.38	13	9.21
M10	14	17.77	16	10.65
M12	16	20.03	18	13.15
M16	20	26.75	24	16.65
	25	32.95	30	20.58
	30	39.55 36	23.	



DIN 986 HEXAGON DOMED CAP NUTS

Thread Size	m	e	s	h1	H2
M4	2.9	7.66	7	5.6	9.60
M5	4.4	8.79	8	6.0	10.5
M6	4.9	11.05	10	7.5	12.0
M8	6.44	14.38	13	8.9	14.0
M10	8.04	18.90	16	10.5	18.1
M12	10.37	21.10	18	13.5	22.5
M16	14.10	26.75	24	16.5	27.5
M20	16.90	32.95	30	21.0	35.0



MATERIALS

CARBON STEEL

STANDARD

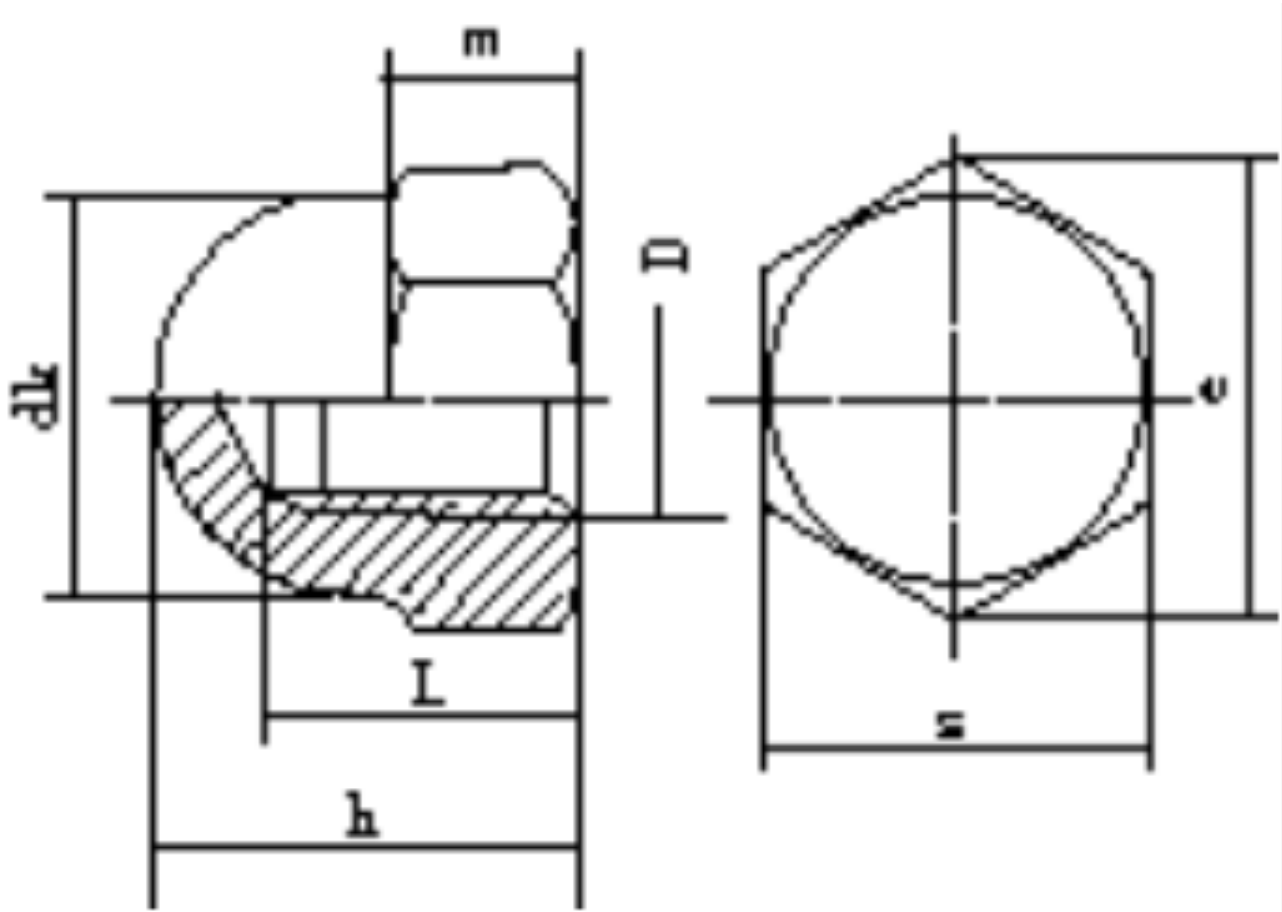
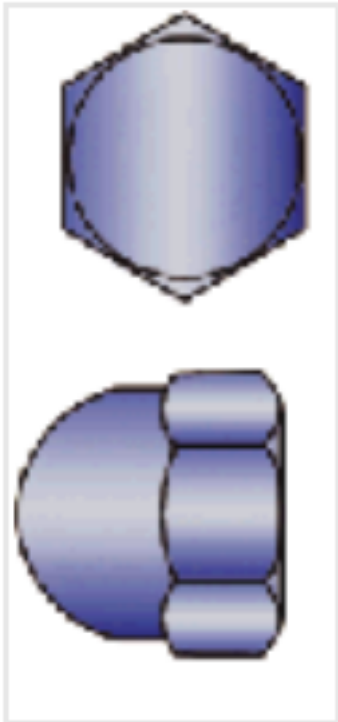
DIN 917/1587/986
GB 923

Hexagon Cap Nuts

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DIN 1587 HEXAGON DOMED CAP NUTS

Thread Size	m	e	s	h	L	dk
M4	3.2	7.66	7	8	5.26	6.5
M5	4.0	8.79	8	10	7.21	7.5
M6	5.0	11.05	10	12	7.71	9.5
M8	6.5	14.38	13	15	10.65	12.5
M10	8.0	17.77	16	18	12.65	15.0
M12	10.0	20.03	18	22	15.65	17.0
M16	13.0	26.75	24	28	20.58	23.0
M20	16.0	33.53	30	34	25.58	28.0
M24	19.0	39.98	36	42	30.50	34.0



MATERIALS

CARBON STEEL

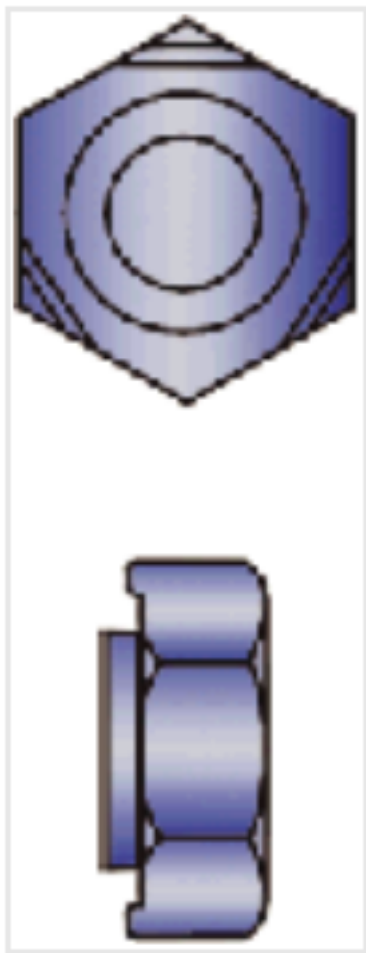
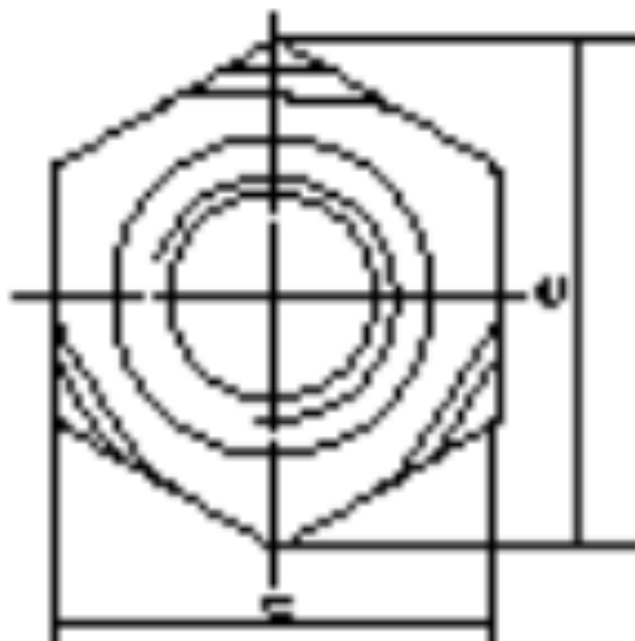
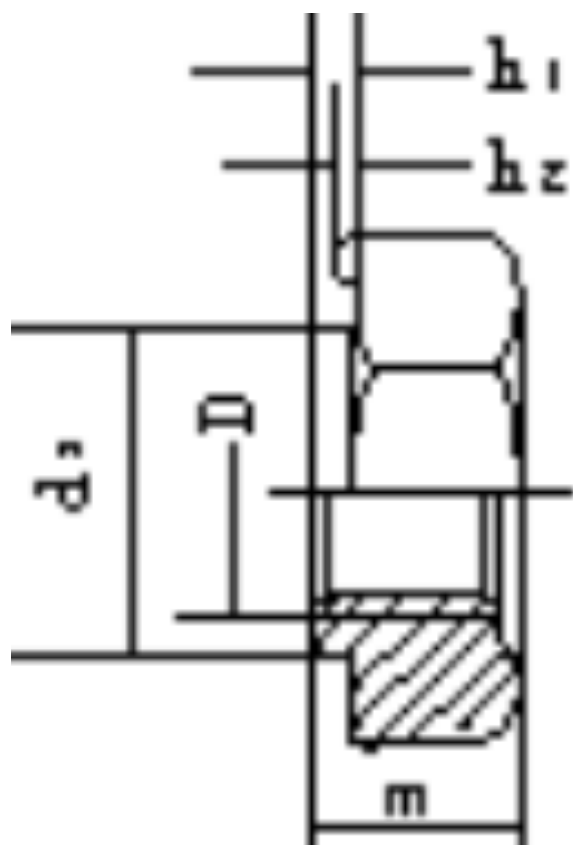
STANDARD

DIN 917/1587/986
GB 923

Hexagon Weld Nuts

DIN 929
HEXAGON WELD NUTS

Thread Size	m	e	s	h1	h2	h3
M4	3.5	9.83	9	0.65	0.35	6.0
M5	4.0	10.95	10	0.70	0.40	7.0
M6	5.0	12.02	11	0.75	0.40	8.0
M8	6.5	15.38	14	0.90	0.50	10.5
M10	8.0	18.74	17	1.15	0.65	12.5
M12	10.0	20.91	19	1.40	0.80	14.8
M16	13.0	26.51	24	1.80	1.00	18.8



MATERIALS

CARBON STEEL
5

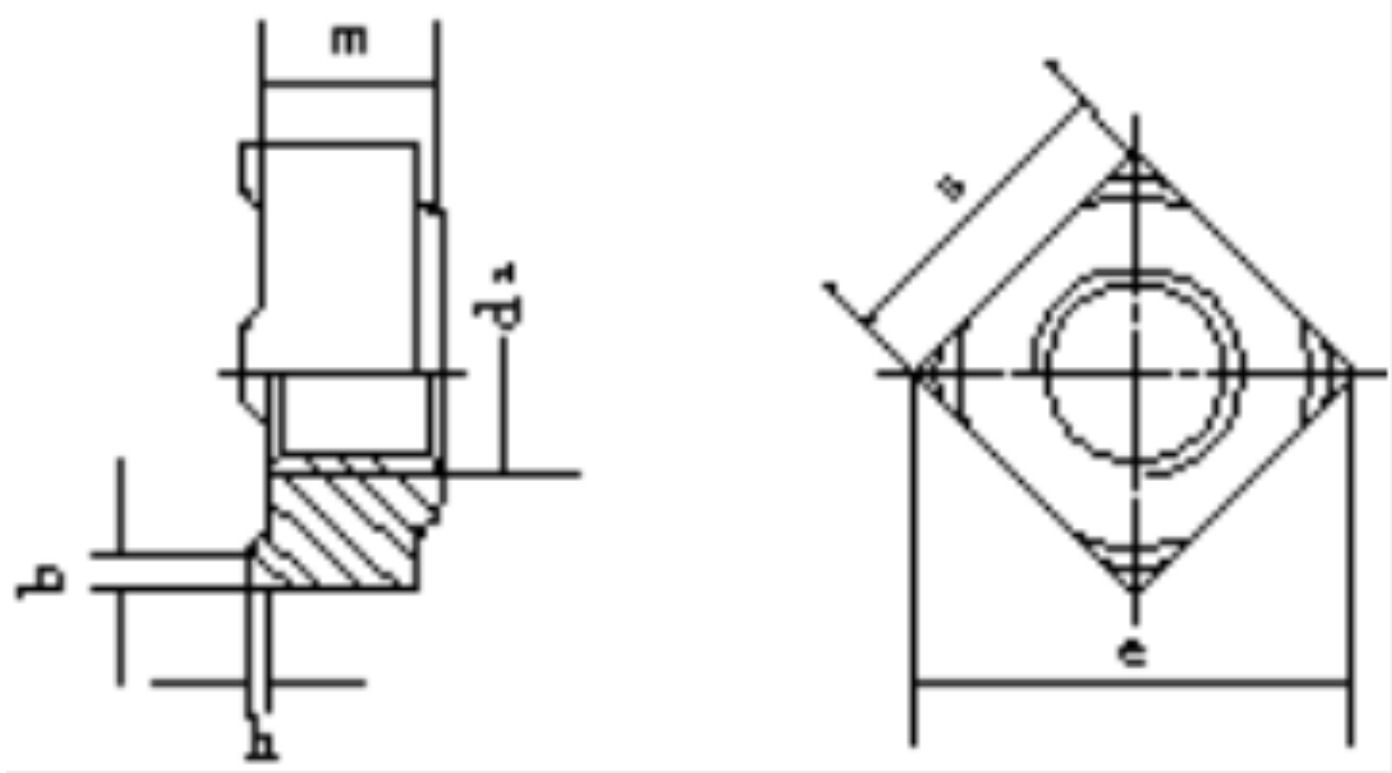
STANDARD

DIN 929

Square Weld Nuts

DIN 928 SQUARE WELD NUTS

Thread Size	b	h	e	m	s
M4	0.8	0.6	9	3.5	7
M5	1.0	0.8	12	4.2	9
M6	1.2	0.8	13	5.0	10
M8	1.5	1.0	18	6.5	14
M10	1.8	1.2	22	8.0	17
M12	2.0	1.4	25	9.5	19
M14	2.5	1.4	28	11.0	22
M16	2.5	1.6	32	13.0	24



MATERIALS

CARBON STEEL
5

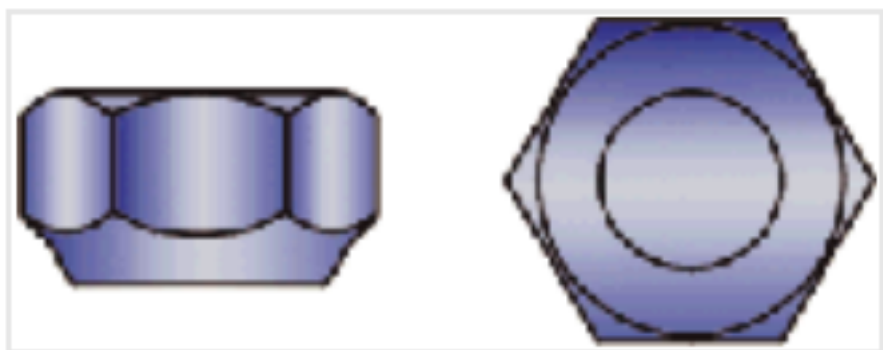
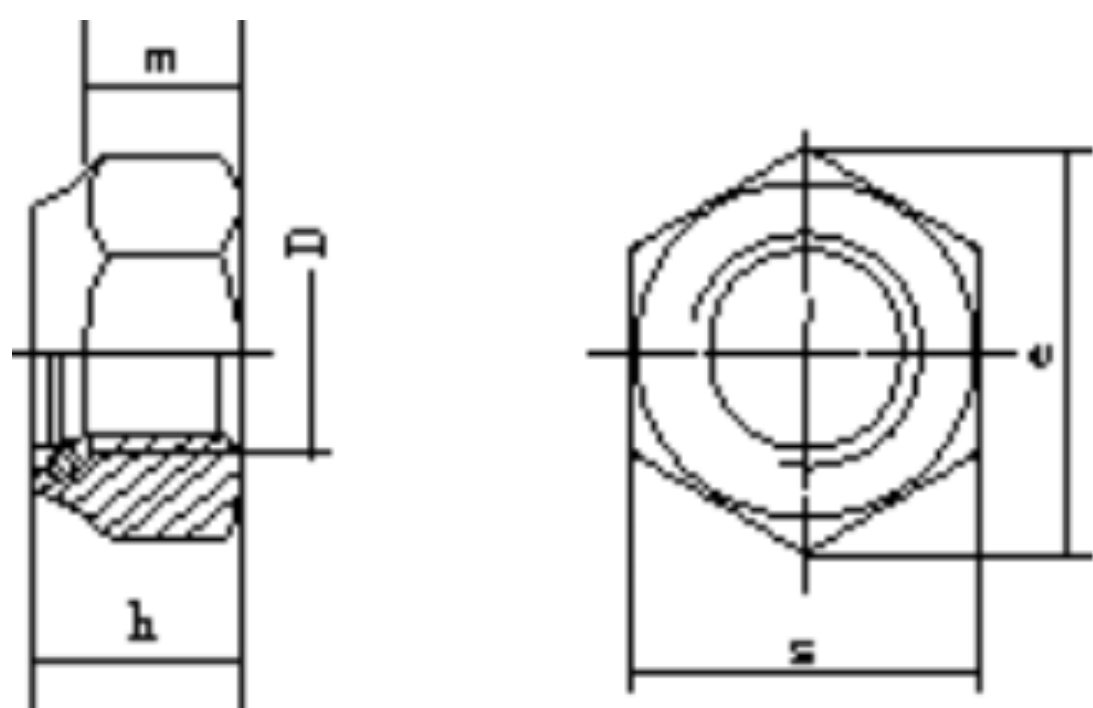
STANDARD

DIN 928

Prevailing Torque Type Hexagon Nuts

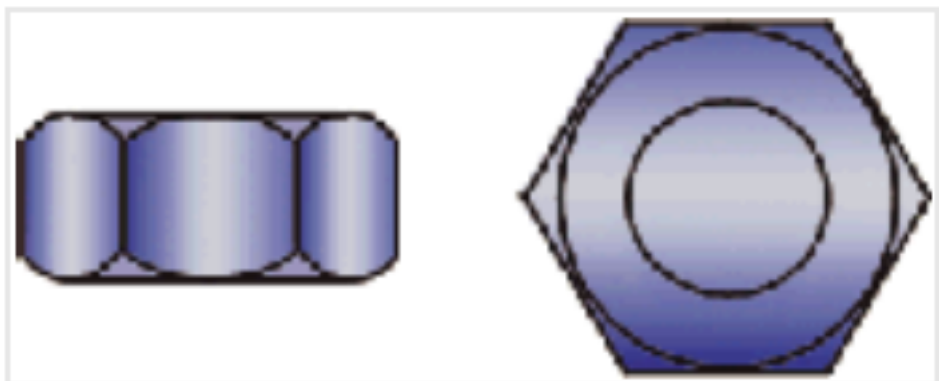
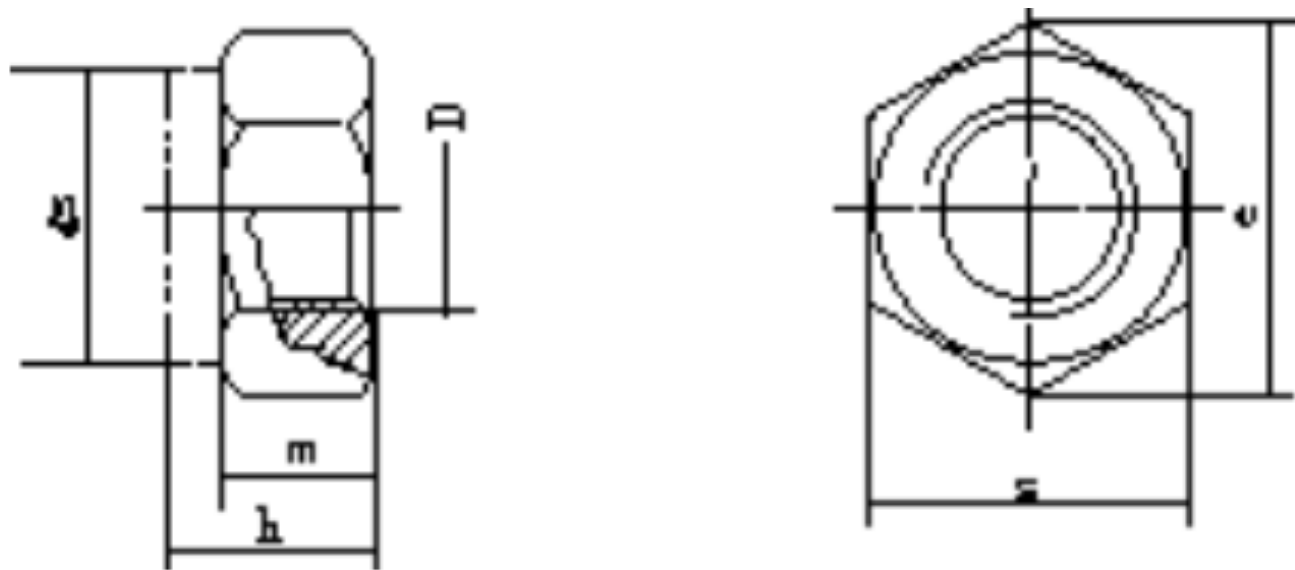
DIN 985 PREVAILING TORQUE TYPE HEXAGON THIN NUTS WITH NONMETALLIC INSERT

Thread Size	Pitch	h	m	e	s
M5	0.8	5	3.2	8.79	8
M6	1.0	6	4.0	11.05	10
M8	1.25	8	5.5	14.38	13
M10	1.50	10	6.5	18.90	17
M12	1.75	12	8.0	21.10	19
M14	2.00	14	9.5	24.49	22
M16	2.00	16	10.5	26.75	24
M18	2.50	18.5	13.0	29.56	27
M20	2.50	20	14.0	32.95	30



DIN 980 ALL METAL PREVAILING TORQUE TYPE HEXAGON NUTS

Thread Size	Pitch	h	e	s
M5	0.8	5.1	8.79	8
M6	1.0	6	11.05	10
M8	1.25	8	14.38	13
M10	1.50	10	18.90	17
M12	1.75	12	21.10	19
M14	2.00	14	24.49	22
M16	2.00	16	26.75	24
M18	2.50	18	29.56	27
M20	2.50	20	32.95	30



MATERIALS

CARBON STEEL

5 / 8

STAINLESS STEEL

STANDARD

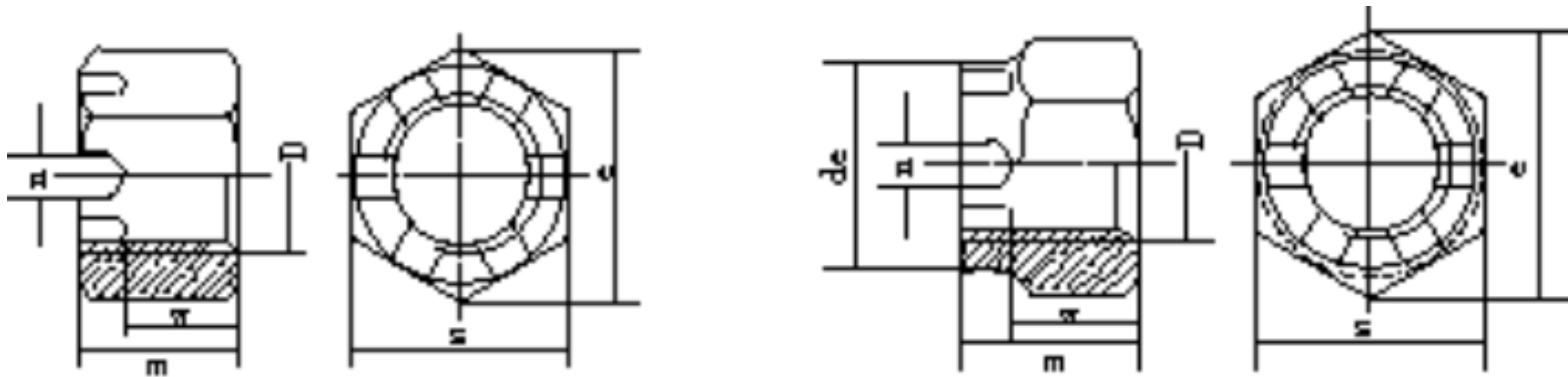
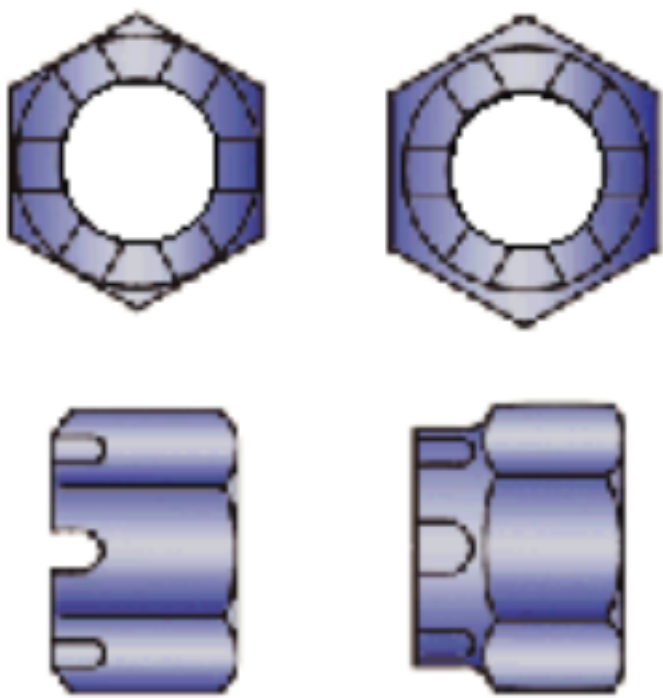
DIN 980 / 985

G.B 6184/6185/889

Castle Nuts

DIN 935 CASTLE NUT

Thread Size	m	e	s	n	w	de
M6	7.5	11.05	10	2.0	5.0	-
M8	9.5	14.38	13	2.5	6.5	-
M10	12	17.77	16	2.8	8	-
M12	15	20.03	18	3.5	10	16
M16	19	26.75	24	4.5	13	22
M20	22	32.95	30	4.5	16	28
M24	27	39.55	36	5.5	19	34
M30	33	50.85	46	7.0	24	42
M36	38	60.79	56	7.0	29	50



MATERIALS

CARBON STEEL

5 / 8

STAINLESS STEEL

STANDARD

DIN 980 / 985

G.B 6184/6185/889

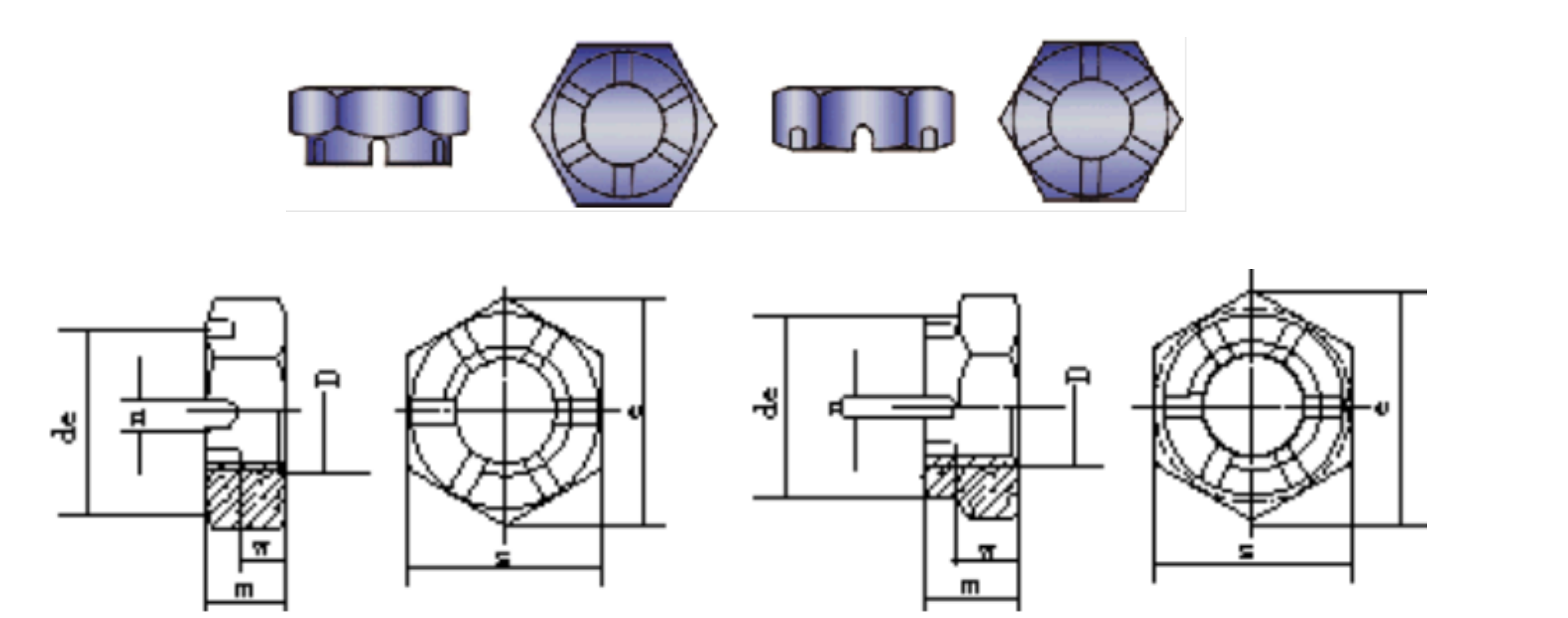
Castle Nuts

DIN 937 CASTLE NUT

Thread Size	m	e	s	n	w	de
M6	6	11.05	10	2.0	3.5	-
M8	8	14.38	13	2.5	4.5	-
M10	9	17.77	17	2.8	5	-
M12	10	20.03	19	3.5	6	17
M16	12	26.75	24	4.5	7	22
M20	13	32.95	30	4.5	8	28
M24	15	39.55	36	5.5	9	33
M30	18	50.85	46	7.0	11	41
M36	20	60.79	55	7.0	13	49

DIN 939 CASTLE NUT

Thread Size	m	e	s	n	w	de
M6	5.0	11.05	10	2.0	2.5	-
M8	6.5	14.38	13	2.5	3.5	-
M10	8	17.77	16	2.8	4	-
M12	10	20.03	18	3.5	5	16
M16	13	26.75	24	4.5	7	22
M20	16	32.95	30	4.5	10	28
M24	19	39.55	36	5.5	11	34
M30	24	50.85	46	7.0	15	42
M36	29	60.79	56	7.0	20	50



MATERIALS

CARBON STEEL
5

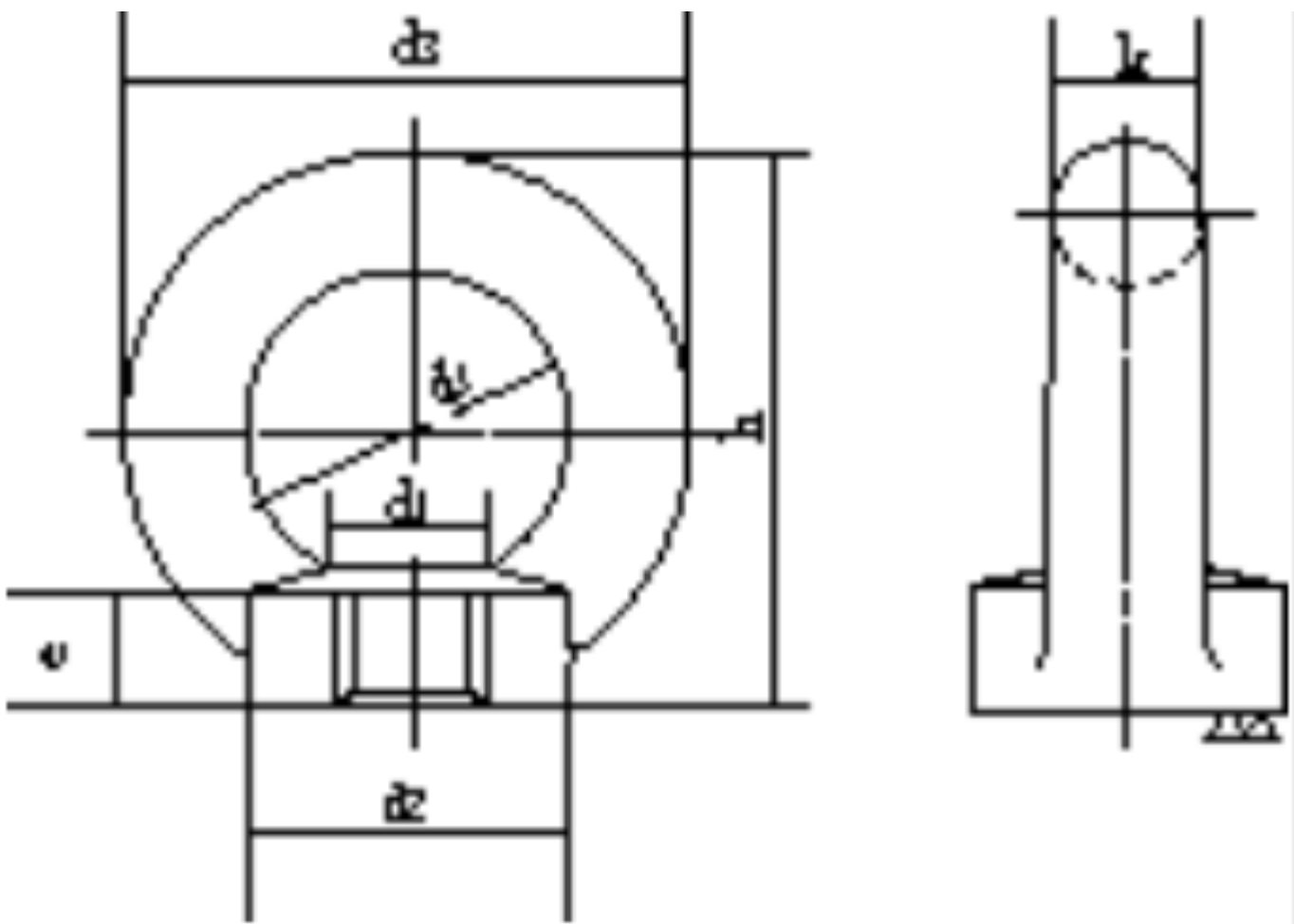
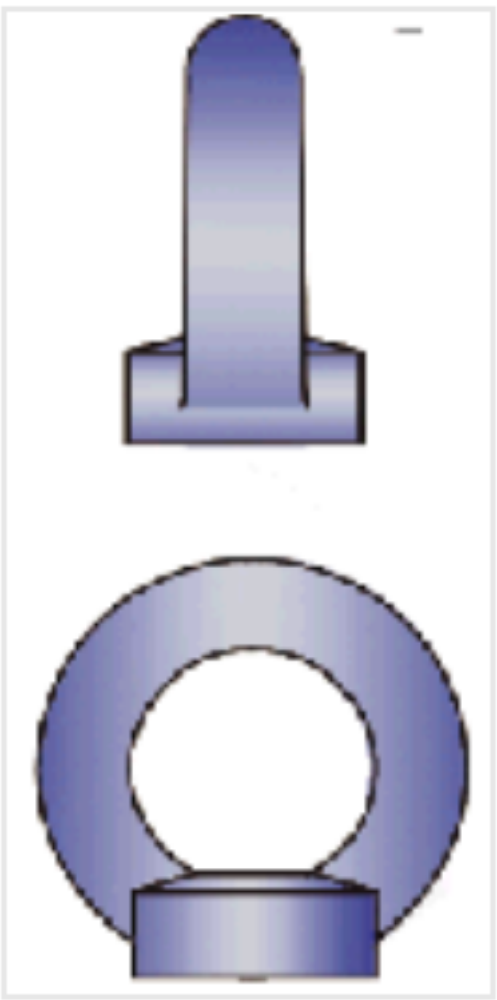
STANDARD

DIN 935/937/979

Lifting Eye Nuts

DIN 582 LIFTING EYE NUTS

d1	d2	d3	d4	e	h	k
M8	20	36	20	8.5	36	8
M10	25	45	25	10	45	10
M12	30	54	30	11	53	12
M16	35	63	35	13	62	14
M20	40	72	40	16	71	16
M24	50	90	50	20	90	20
M30	65	108	60	25	109	24
M36	75	126	70	30	128	28



MATERIALS

C15
STAINLESS STEEL

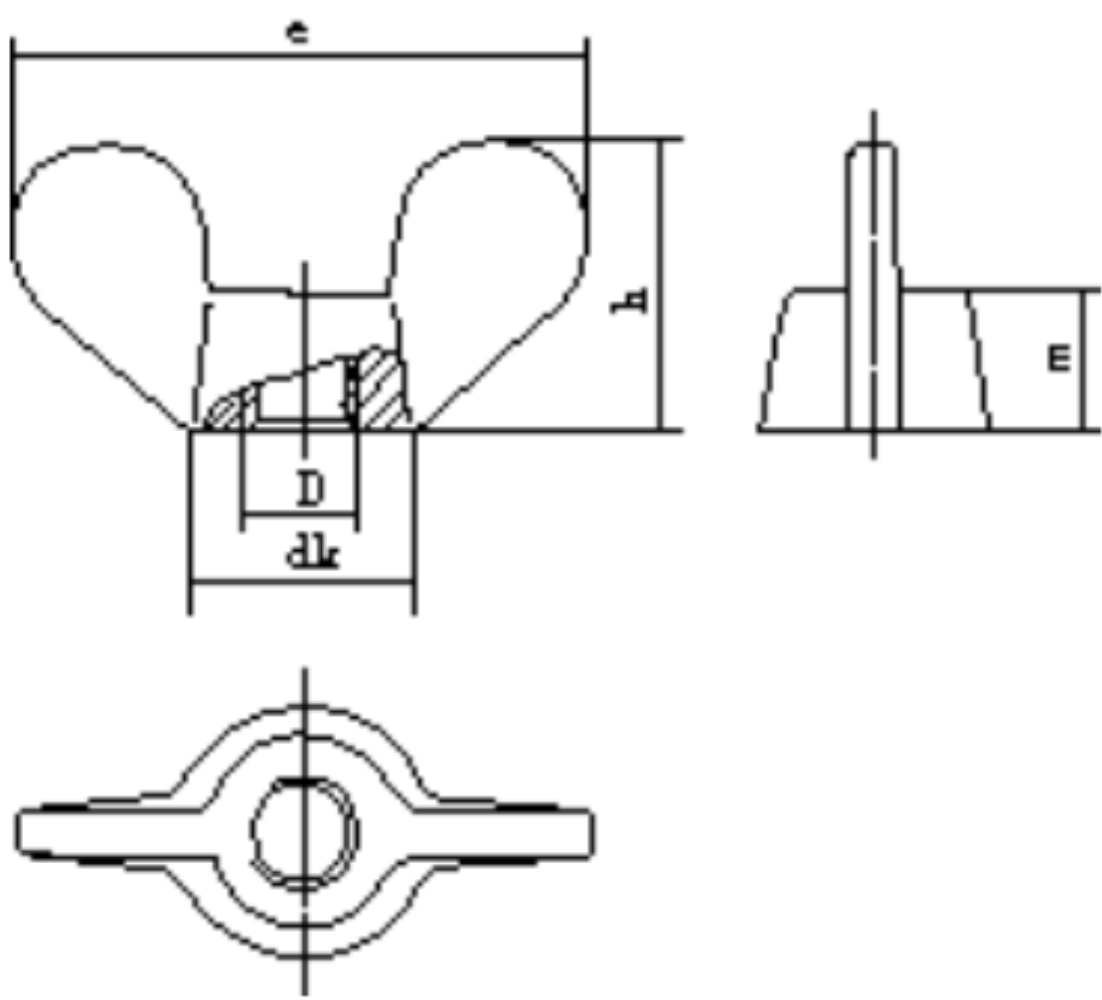
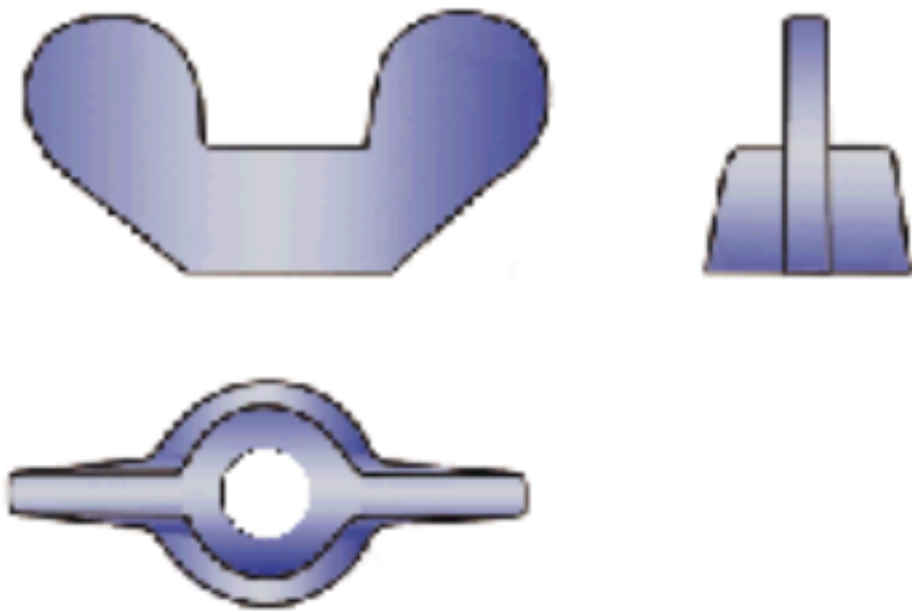
STANDARD

DIN 582

DIN 315 (GB 62)

WING NUTS

Thread Size	Pitch	dk	e	h	m
M4	0.7	6	18	8.5	3.2
M5	0.8	8	24	11	4
M6	1.0	10	3	15	5
M8	1.25	13	36	18	6.5
M10	1.15	17	48	23	8
M12	1.75	20	62	31	10
M16	2.00	26	70	35	13
M20	2.50	32	86	44	16
M24	3.00	41	106	53.5	20



MATERIALS

CARBON STEEL

5

STANDARD

DIN 315

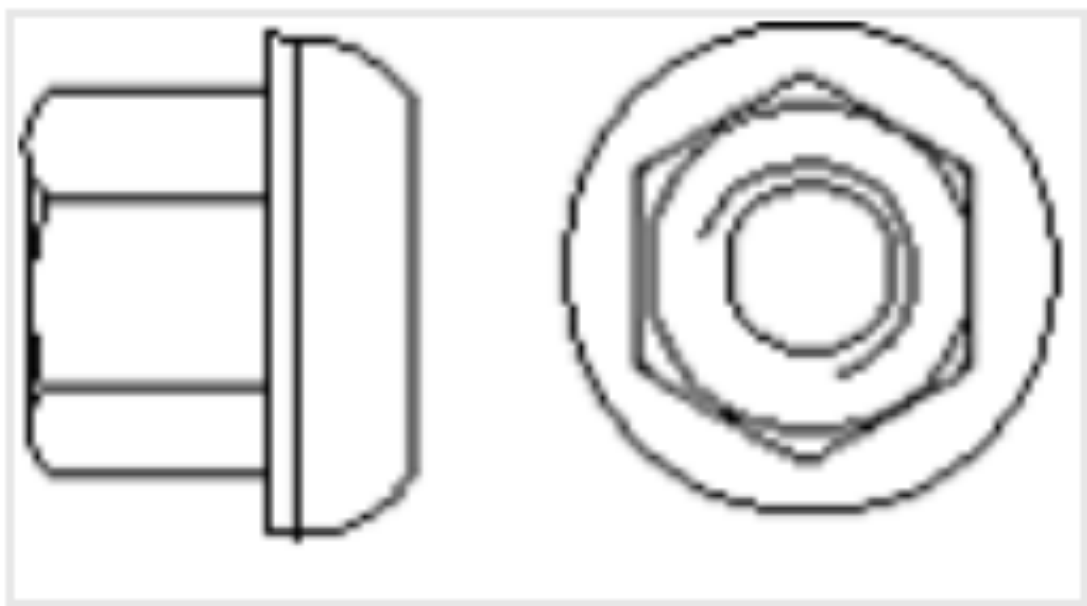
GB 62



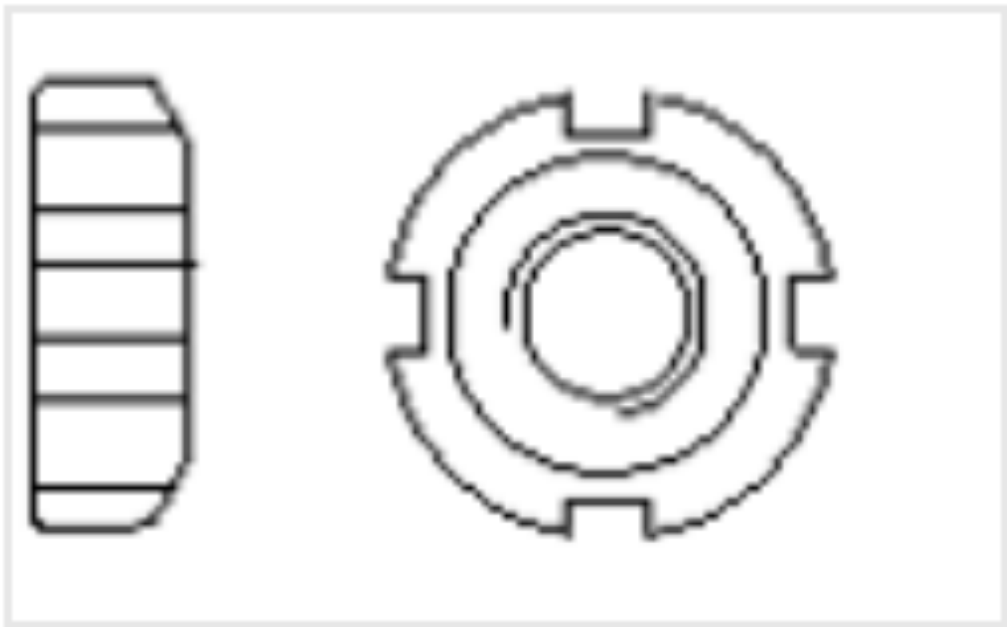
Other Nut Types

น๊อตแบบอื่นๆ

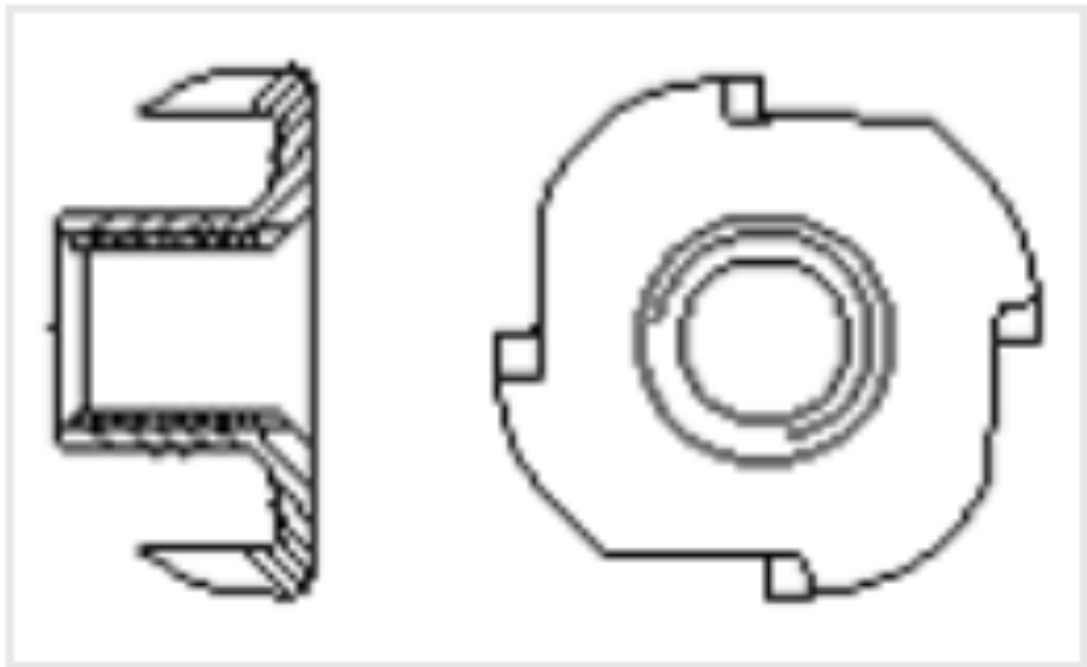
WHEEL FASTENING NUTS



HEXAGON ROUND NUTS



T NUTS FOR WOOD



T NUTS FOR WOOD

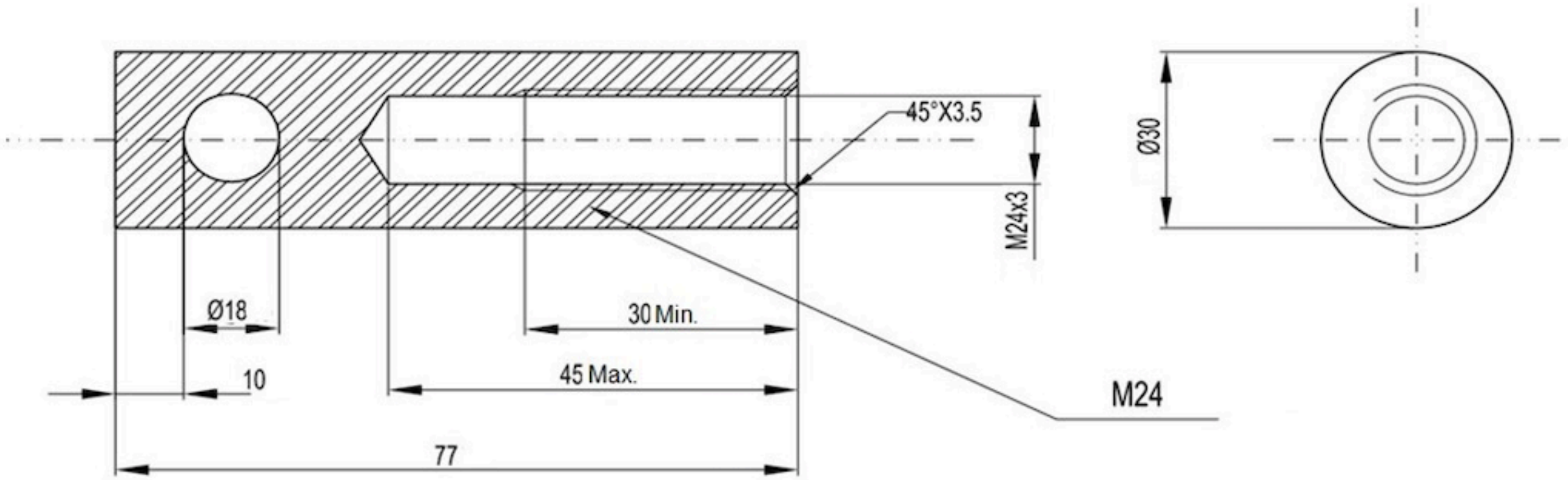
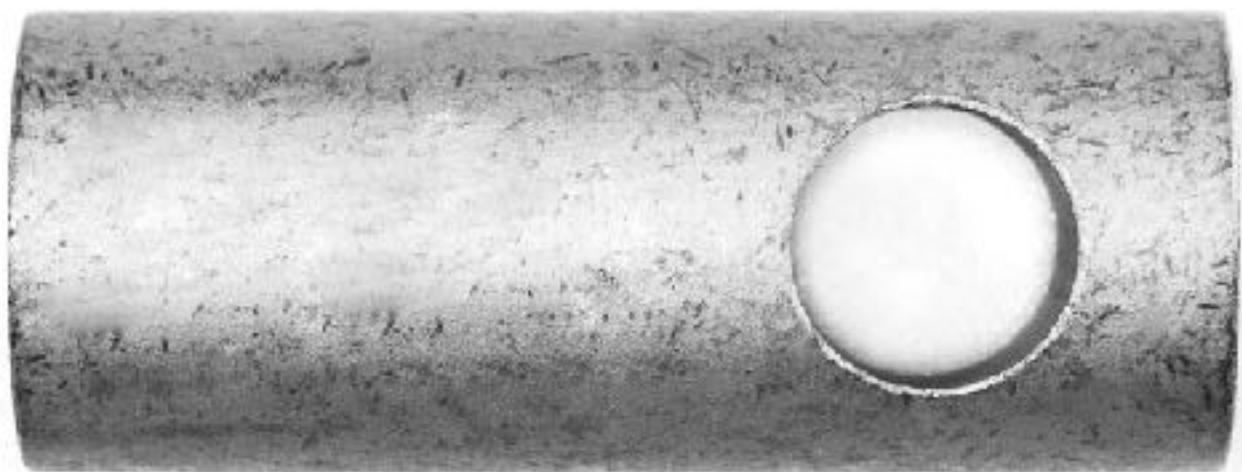


MATERIALS
VARIOUS

STANDARD
VARIOUS

Special Nut

SPECIAL NUT M24



MATERIAL
STEEL

TAPPING SCREW

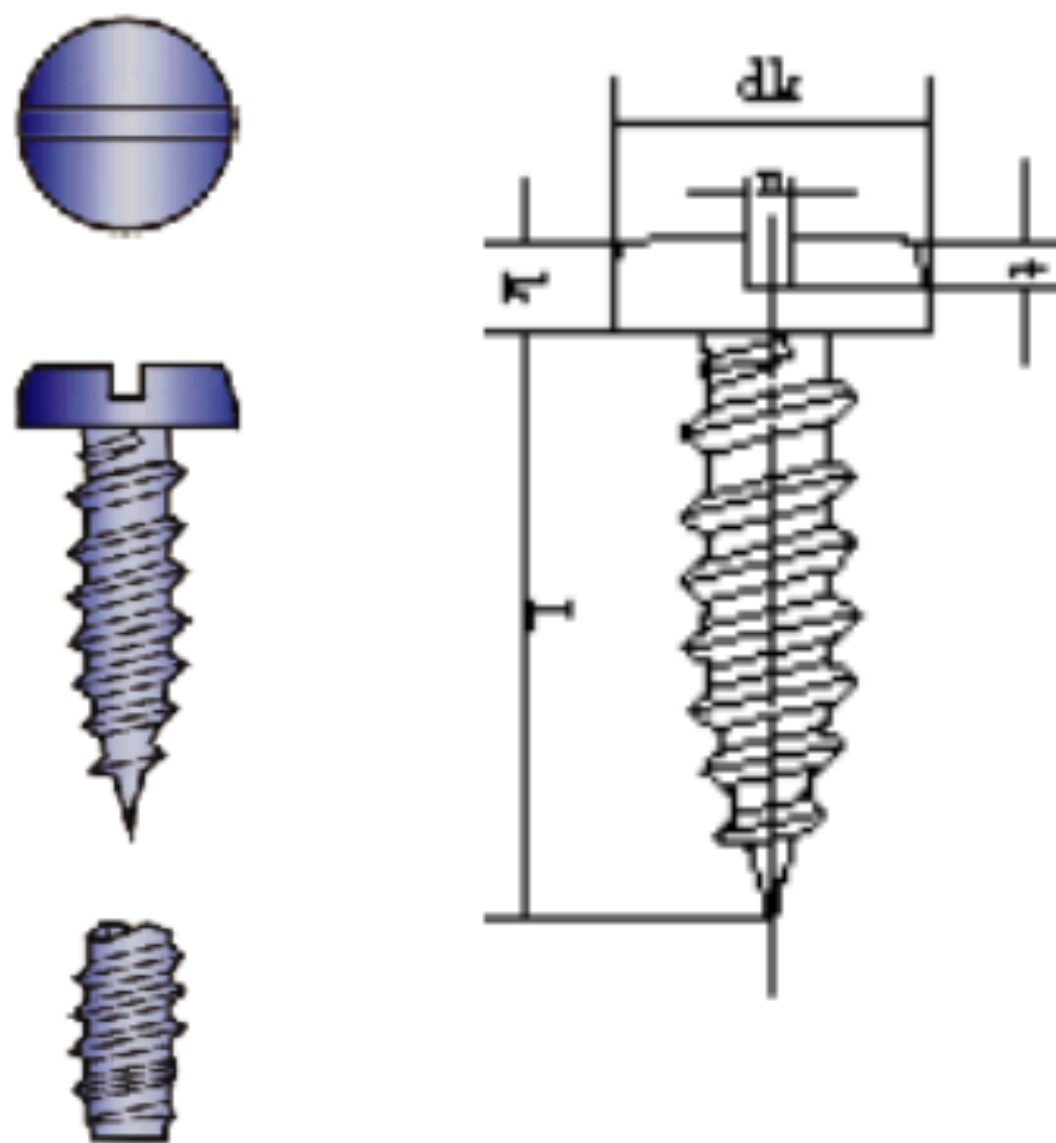


Pan Head Tapping Screw With Slot

สกรูเกลียวปหล่อย หัวผ่า

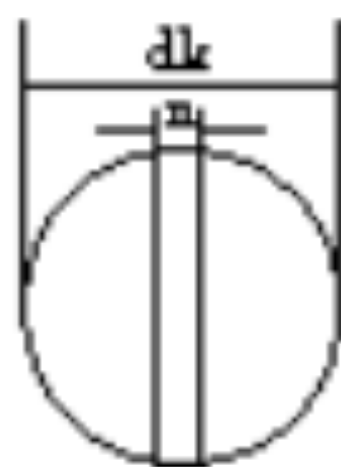
DIN 7971
PAN HEAD TAPPING SCREWS WITH SLOT
Thread Size: 2.9-6.3 Length(L): 6.5-75mm

Thread Size	dk	k	n	L
2.9	5.6	1.50	0.8	6.5-25
3.5	6.9	1.85	1.0	6.5-50
3.9	7.5	2.00	1.0	9.5-50
4.2	8.2	2.15	1.2	9.5-63
4.8	9.5	2.50	1.2	9.5-63
5.5	10.8	2.85	1.6	13-75
6.3	12.5	3.20	1.6	13-75



IFI H-38 (E-34)
SLOTTED PAN HEAD TAPPING SCREWS
Thread Size: 4-12,1/4 in Length(L): 6.5-75mm

Thread Size	dk	k	n	L(mm)
4	0.205	0.058	0.031	6.5-25
5	0.231	0.065	0.035	6.5-25
6	0.256	0.072	0.039	6.5-50
7	0.281	0.079	0.039	9.5-50
8	0.306	0.085	0.045	9.5-63
10	0.357	0.099	0.050	9.5-63
12	0.407	0.112	0.056	13-75
1/4	0.473	0.130	0.064	13-75



MATERIALS

C1018
C1022
STAINLESS STEEL

STANDARD

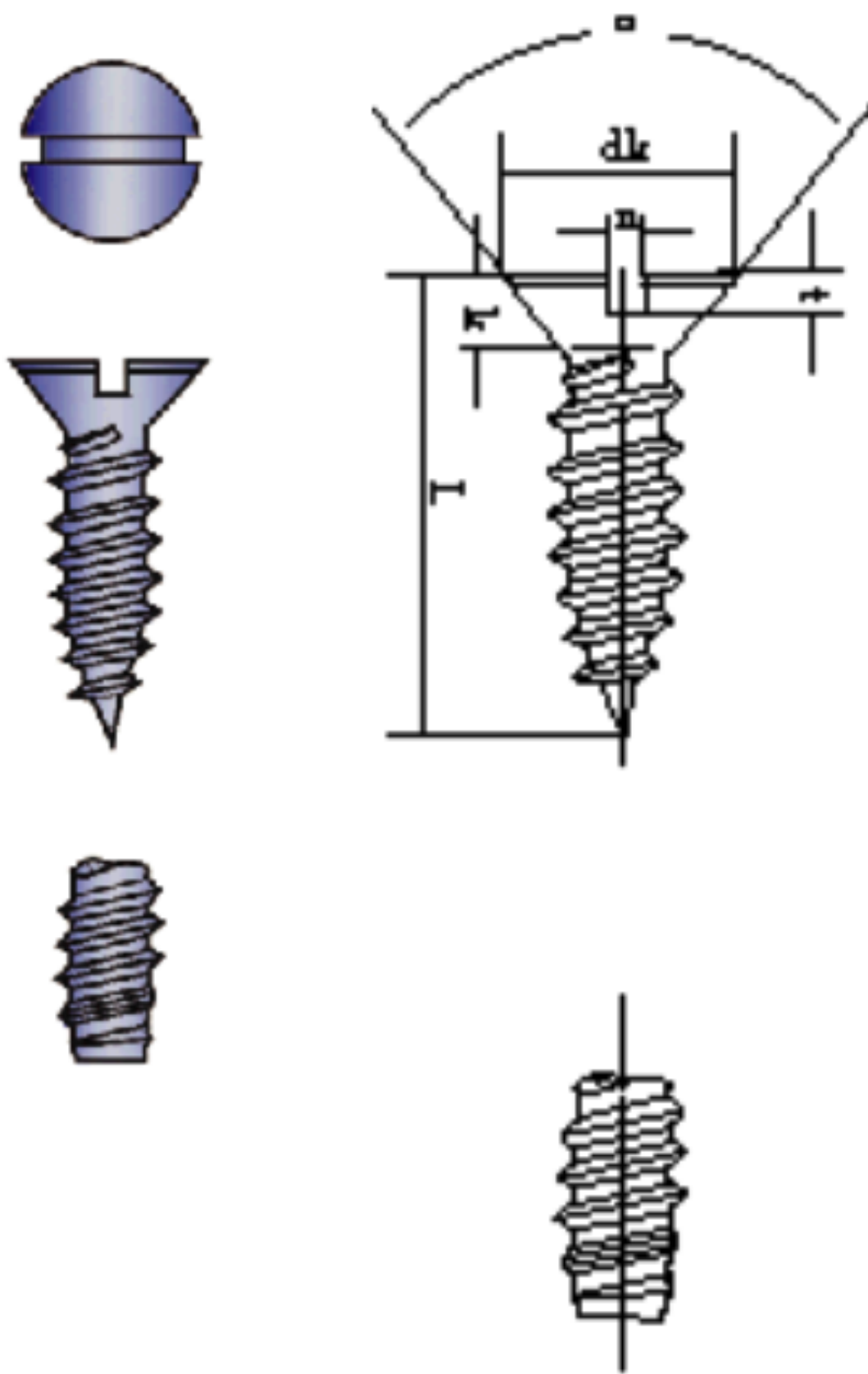
DIN 7971
ISO 1481
B.S. 4174
IFI H-38
GB 5282

Countersunk Head Tapping Screw With Slot

DIN 7972 COUNTERSUNK HEAD TAPPING SCREWS WITH SLOT

Thread Size: 2.9-6.3 Length(L): 6.5-75mm

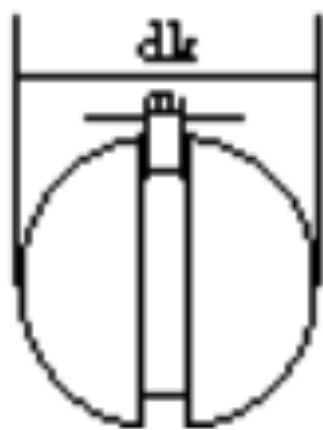
Thread Size	dk	k	n	L(mm)
2.9	5.5	1.7	0.8	6.5-25
3.5	6.8	2.1	1.0	6.5-50
3.9	7.5	2.3	1.0	9.5-50
4.2	8.1	2.5	1.2	9.5-63
4.8	9.5	3.0	1.2	9.5-63
5.5	10.8	3.4	1.6	13-75
6.3	12.4	3.8	1.6	13-75



IFI H-24 (E-20) SLOTTED FLAT COUNTERSUNK HEAD TAPPING SCREWS

Thread Size: 4-12,1/4 in Length(L): 6.5-75mm

Thread Size	dk	k	n	L(mm)
4	0.195	0.067	0.031	6.5-25
5	0.220	0.075	0.035	6.5-25
6	0.244	0.083	0.039	6.5-50
7	0.268	0.091	0.089	9.5-50
8	0.292	0.100	0.045	9.5-63
10	0.340	0.116	0.500	9.5-63
12	0.389	0.132	0.056	13-75
1/4	0.452	0.153	0.064	13-75



MATERIALS

C1018
C1022
STAINLESS STEEL

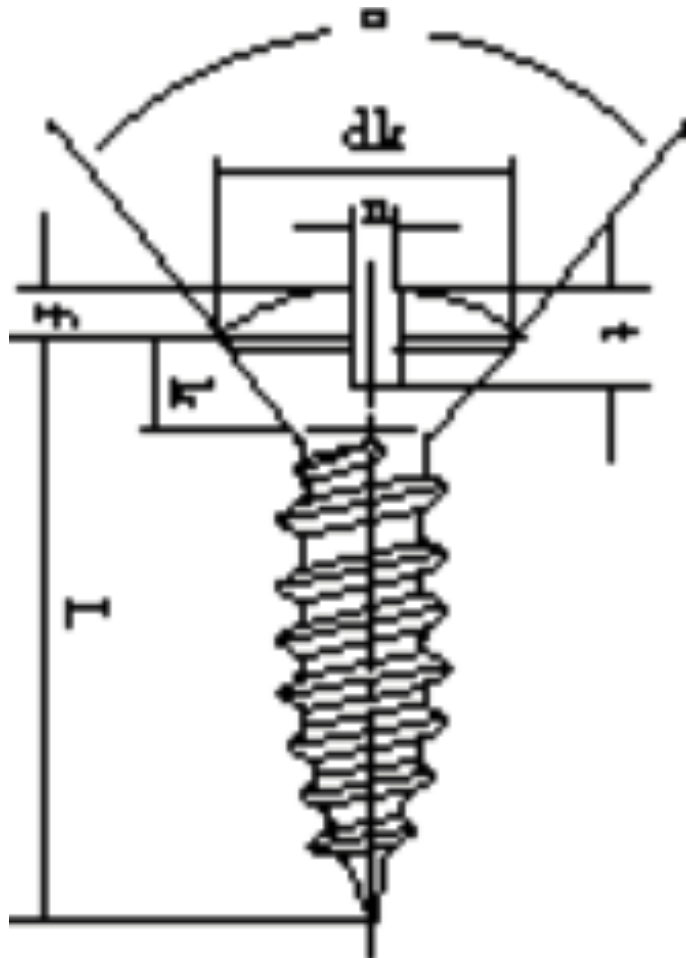
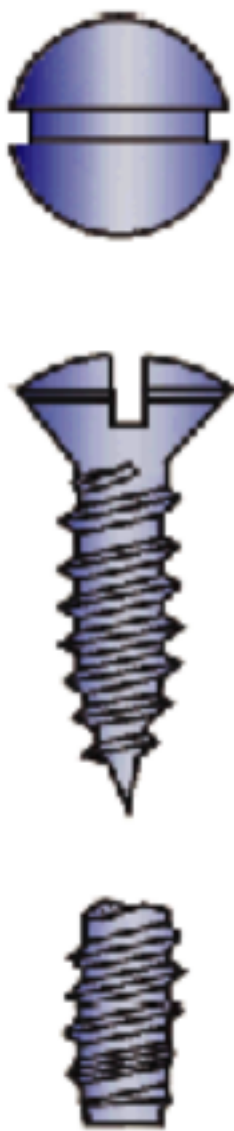
STANDARD

DIN 7972
ISO 1482
B.S. 4174
IFI H-24
GB 5283

Raised Countersunk Head Tapping Screw With Slot

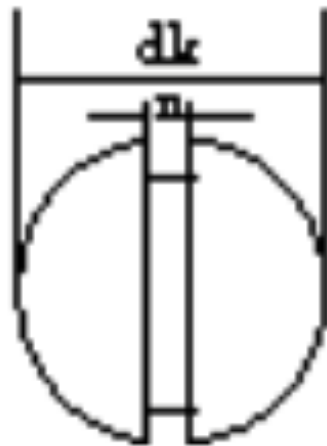
DIN 7973
RAISED COUNTERSUNK HEAD
TAPPING SCREWS WITH SLOT
Thread Size: 2.9-6.3 Length(L): 6.5-75mm

Thread Size	dk	f	k	n	L(mm)
2.9	5.5	0.9	1.7	0.8	6.5-25
3.5	6.8	1.2	2.1	1	6.5-50
3.9	7.5	1.3	2.3	1	9.5-50
4.2	8.1	1.4	2.5	1.2	9.5-63
4.8	9.5	1.5	3	1.2	9.5-63
5.5	10.8	1.7	3.4	1.6	13-75
6.3	12.5	2	3.8	1.6	13-75



IFI H-32 (E-28)
SLOTTED OVAL COUNTERSUNK HEAD
TAPPING SCREWS
Thread Size: 4-12,1/4 in Length(L): 6.5-75mm

Thread Size	dk	f+k	n	L(mm)
4	0.195	0.084	0.031	6.5-25
5	0.220	0.095	0.035	6.5-25
6	0.244	0.105	0.039	6.5-50
7	0.268	0.116	0.039	9.5-50
8	0.292	0.126	0.045	9.5-63
10	0.340	0.148	0.050	9.5-63
12	0.389	0.169	0.056	13-75
1/4	0.452	0.197	0.064	13-75



MATERIALS

C1018
C1022
STAINLESS STEEL

STANDARD

DIN 7973
ISO 1483
B.S. 4174
IFI H-32
GB 5284

Cross Recessed Countersunk Head Tapping Screw

DIN 7982 CROSS RECESSED COUNTERSUNK HEAD TAPPING SCREWS

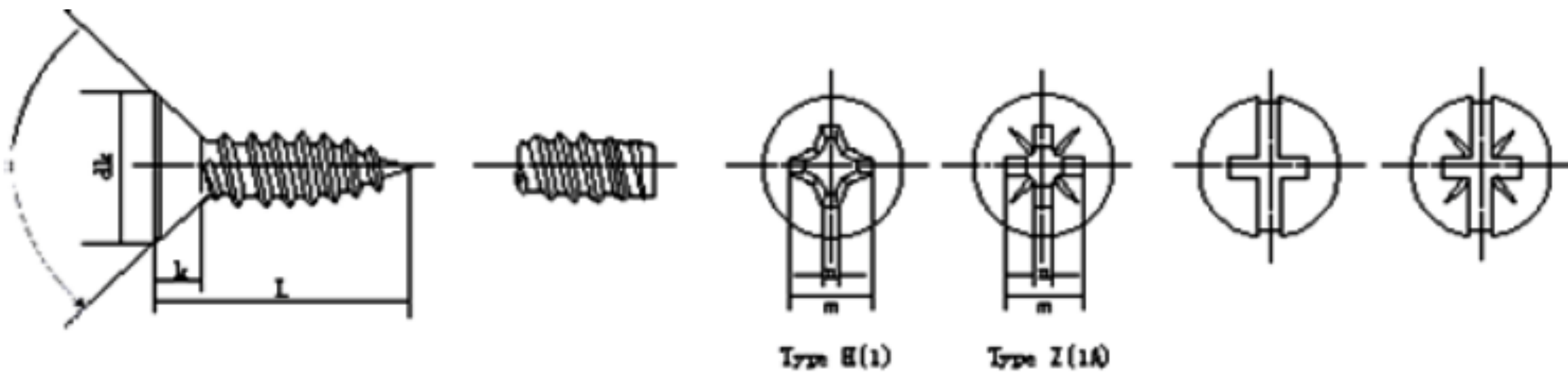
Thread Size: 2.9-6.3 Length(L): 6.5-75mm

Thread Size	dk	k	Cross recess			L
			(Type H)m	(Type z)m	No.	
2.9	5.5	1.7	3.0	2.8	1	6.5-25
3.5	6.8	2.1	4.2	4.0	1	6.5-50
3.9	7.5	2.3	4.6	4.2	2	9.5-50
4.2	8.1	2.5	4.7	4.4	2	9.5-63
4.8	9.5	3.0	5.1	5.0	2	9.5-63
5.5	10.8	3.4	5.8	6.3	3	13-75
6.3	12.4	3.8	7.1	7.0	3	13-75

IFI H-25 (E-21) CROSS RECESSED FLAT COUNTERSUNK HEAD TAPPING SCREWS

Thread Size: 4-12,1/4 in Length(L): 6.5-75mm

Thread Size	dk	k	Cross recess			L(mm)
			(Type 1)m	(Type 1A)m	No.	
4	0.195	0.067	0.115	0.115	1	6.5-25
5	0.220	0.075	0.141	0.141	2	6.5-25
6	0.244	0.083	0.161	0.161	2	6.5-50
7	0.268	0.091	0.169	0.169	2	9.5-50
8	0.292	0.100	0.176	0.176	2	9.5-63
10	0.340	0.116	0.191	0.191	2	9.5-63
12	0.389	0.132	0.255	0.255	3	13-75
1/4	0.452	0.153	0.270	0.270	3	13-75



MATERIALS

C1018
C1022
STAINLESS STEEL

STANDARD

DIN 7982
ISO 7050
IFI H-25
GB 846

Cross Recessed Raised Countersunk Head Tapping Screw

DIN 7983
CROSS RECESSED RAISED
COUNTERSUNK HEAD
TAPPING SCREWS

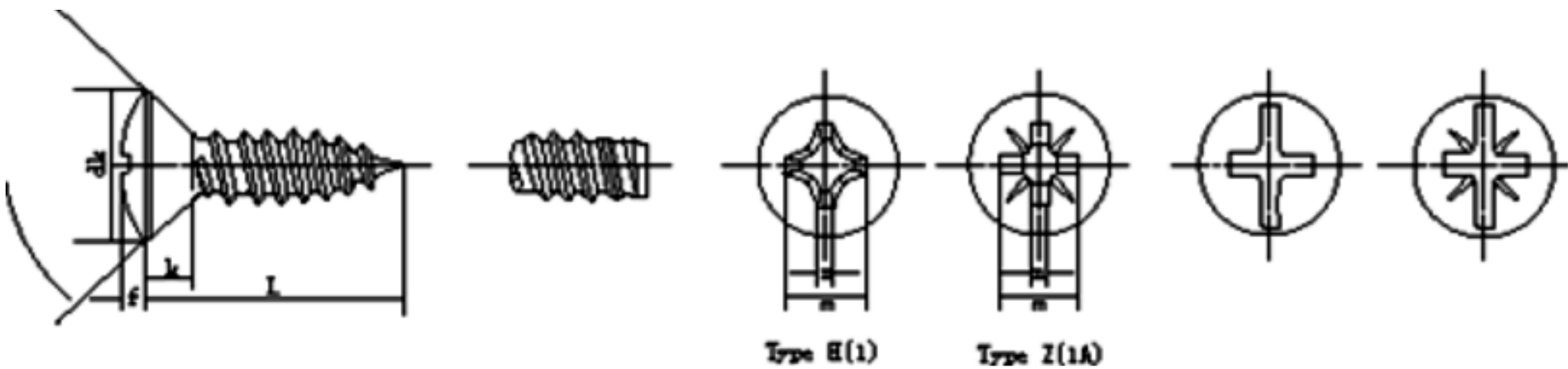
Thread Size: 2.9-6.3 Length(L): 6.5-75mm

Thread Size	dk	f	k	Cross recess			L
				(Type H)1	(Type z)m	No.	
2.9	5.5	0.9	1.7	3.4	3.1	1	6.5-25
3.5	6.8	1.2	2.1	4.6	4.3		
6.5-50							
3.9	7.5	1.3	2.3	4.7	4.4	2	9.5-50
4.2	8.1	1.4	2.5	4.9	4.6	2	9.5-63
4.8	9.5	1.5	3.0	5.4	5.1	2	9.5-63
5.5	10.8	1.7	3.4	7.0	6.6	3	13-75
6.3	12.4	2.0	3.8	7.4	7.1	3	13-75

IFI H-33 (E-39)
CROSS RECESSED OVAL
COUNTERSUNK HEAD
TAPPING SCREWS

Thread Size: 4-12,1/4 in Length(L): 6.5-75mm

Thread Size	dk	k	Cross recess			L(mm)
			(Type 1)m	(Type 1A)m	No.	
4	0.195	0.084	0.123	0.123	1	6.5-25
5	0.220	0.095	0.145	0.145	2	6.5-25
6	0.244	0.105	0.165	0.165	2	6.5-50
7	0.268	0.116	0.170	0.170	2	9.5-50
8	0.292	0.126	0.179	0.179	2	9.5-63
10	0.340	0.148	0.196	0.196	2	9.5-63
12	0.389	0.169	0.257	0.257	3	13-75
1/4	0.452	0.197	0.277	0.277	3	13-75



MATERIALS

C1018

C1022

STAINLESS STEEL

STANDARD

DIN 7983

ISO 7051

IFI H-33

GB 847

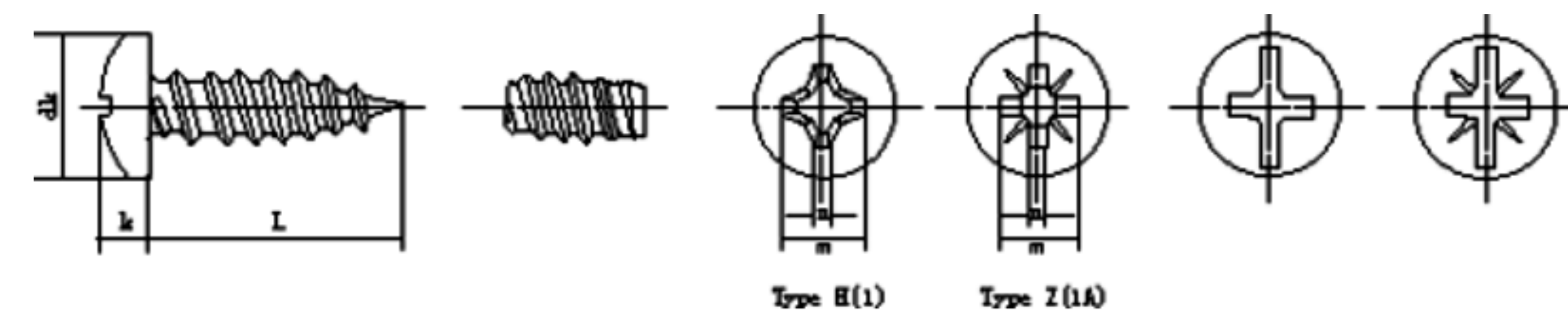
Cross Recessed Pan Head Tapping Screw

DIN 7981
CROSS RECESSED PAN HEAD
TAPPING SCREWS
 Thread Size: 2.9-6.3 Length(L): 6.5-50mm

Thread Size	dk	k	Cross recess			L
			(Type H)m	(Type z)m	No.	
2.9	5.6	2.2	3	2.9	1	6.5-25
3.5	6.9	2.6	4.2	3.9	1	6.5-50
3.9	7.5	2.8	4.4	4.1	2	9.5-50
4.2	8.2	3.05	4.6	4.3	2	9.5-63
4.8	9.5	1.55	5	4.7	2	9.5-63
5.5	10.8	3.95	6.5	6.2	3	13-75
6.3	12.5	4.55	7.1	6.7	3	13-75

IFI H-39 (E-35)
CROSS RECESSED PAN HEAD
TAPPING SCREWS
 Thread Size: 4-12,1/4 in Length(L): 6.5-75mm

Thread Size	dk	k	Cross recess			L(mm)
			(Type 1)m	(Type 1A)m	No.	
4	0.205	0.080	0.109	0.109	1	6.5-25
5	0.231	0.890	0.145	0.141	2	6.5-25
6	0.256	0.097	0.153	0.149	2	6.5-50
7	0.281	0.106	0.163	0.157	2	9.5-50
8	0.306	0.115	0.169	0.164	2	9.5-63
10	0.357	0.133	0.186	0.180	2	9.5-63
12	0.407	0.151	0.246	0.241	3	13-75
1/4	0.473	0.175	0.268	0.260	3	13-75

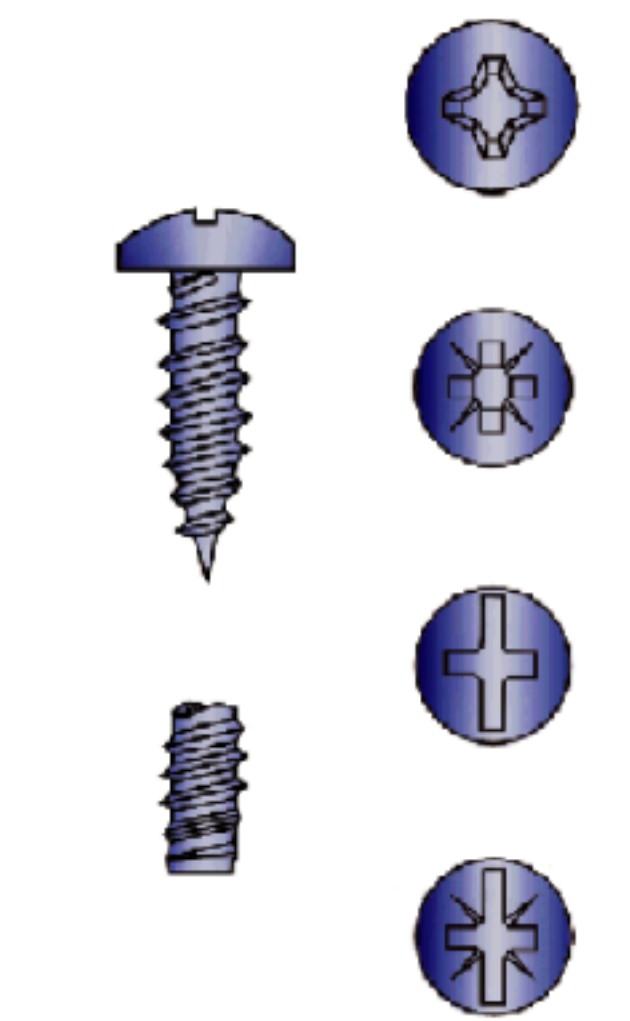


MATERIALS

C1018
 C1022
 STAINLESS STEEL

STANDARD

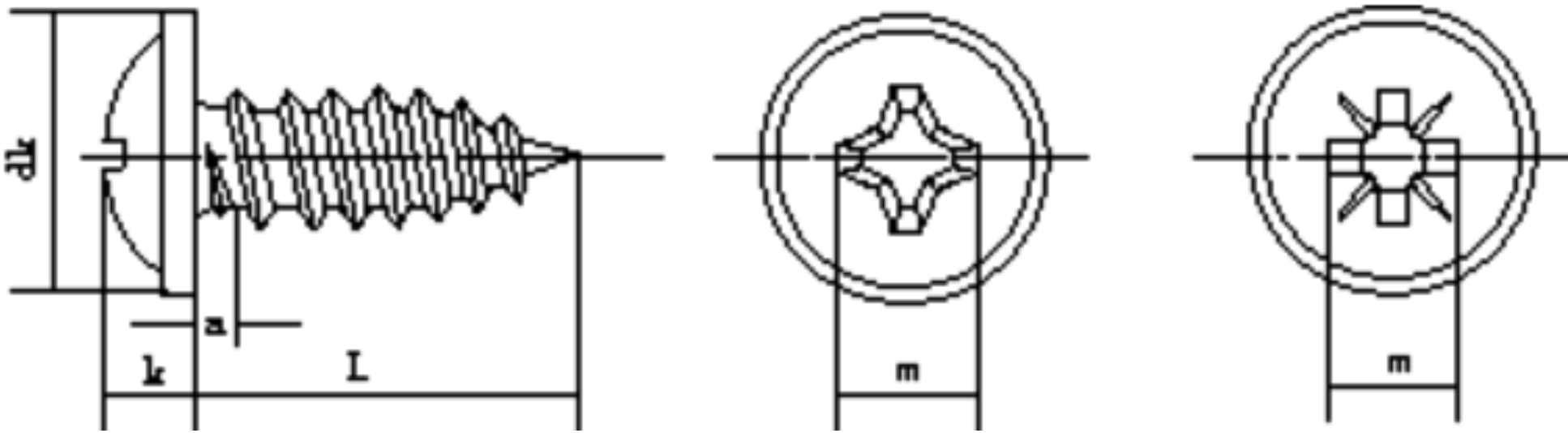
DIN 7981
 ISO 7049
 IFI H-39
 GB 845



Cross Recessed Pan Head Tapping Screw With Collar

DIN 968
CROSS RECESSED PAN HEAD
TAPPING SCREWS WITH COLLAR
Thread Size: 2.9-6.3 Length(L): 6.5-50mm

Thread Size	dk	k	Cross recess			L(mm)
			(Type H)m	(Type z)m	No.	
ST2.9	7.50	2.35	3.00	2.90	1	6.5-19
ST3.5	9.00	2.60	4.20	3.90	2	9.5-25
ST4.2	10.0	3.05	4.60	4.30	2	9.5-32
ST4.8	11.5	3.55	5.00	4.70	2	9.5-50
ST5.5	13.0	3.80	6.50	6.20	3	13-50
ST6.3	14.5	4.55	7.10	6.70	3	13-50



MATERIALS

C1018
C1022
STAINLESS STEEL

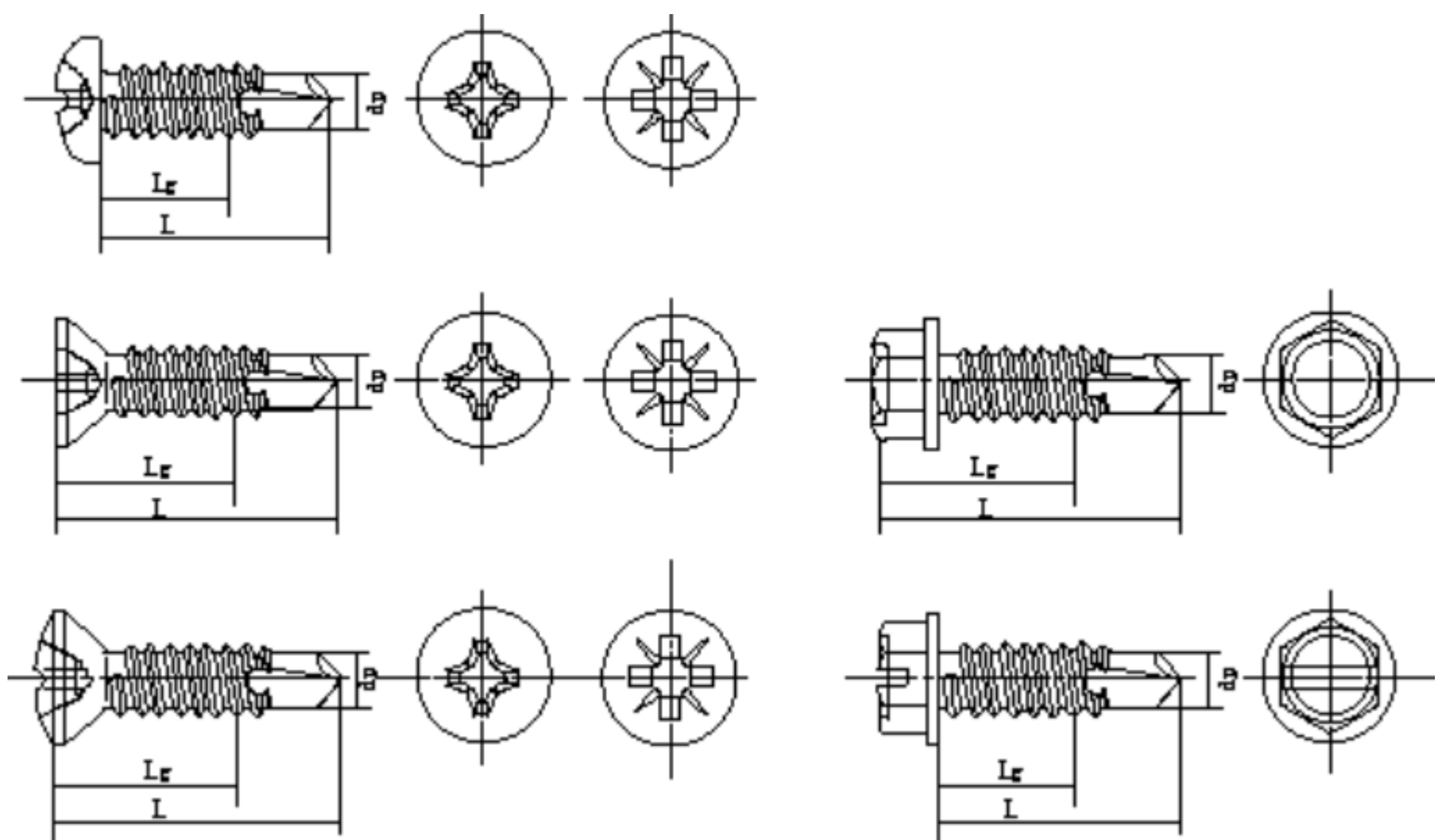
STANDARD

DIN 968

Self Drilling Screws

SELF DRILLING SCREWS

Tread size	ST2.9	ST3.5	ST4.2	ST4.8	ST5.5	ST6.3
dp	2.3	2.8	3.6	4.1	4.8	5.8
Lg	6.6-12.5	6.2-18.1	4.3-29.0	5.8-39.5	8-39	7-38
L	6.5-25	6.5-50	9.5-50	9.5-63	13-75	13-75



MATERIALS

C1018
C1022
STAINLESS STEEL

STANDARD

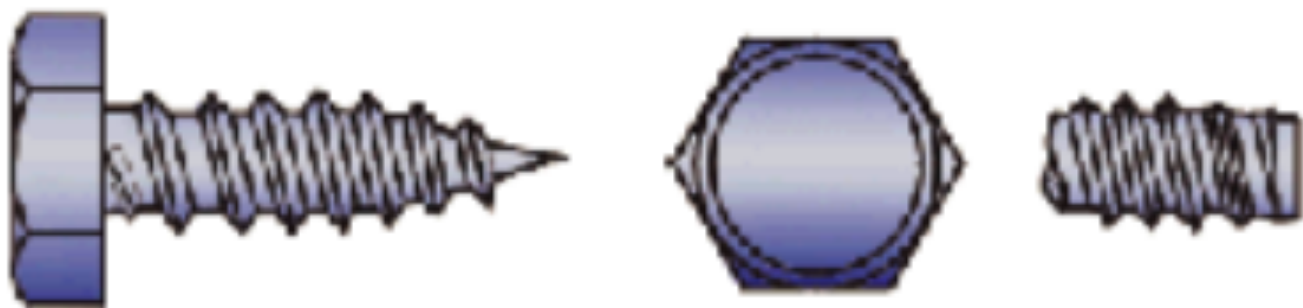
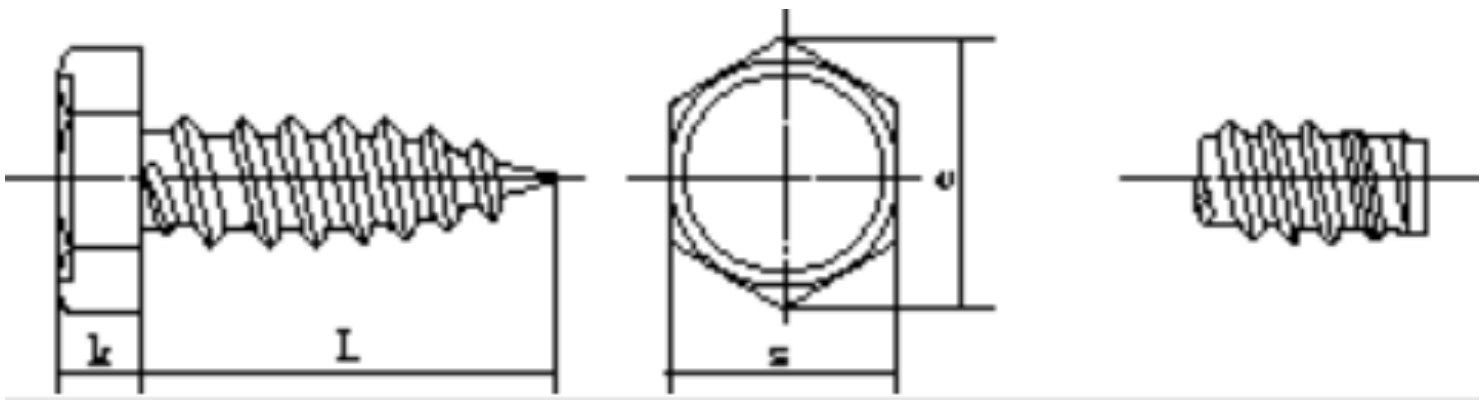
DIN 7981
IFI H-39
ISO 7049
GB 845

Hexagon Head | Washer Head

Tapping Screws

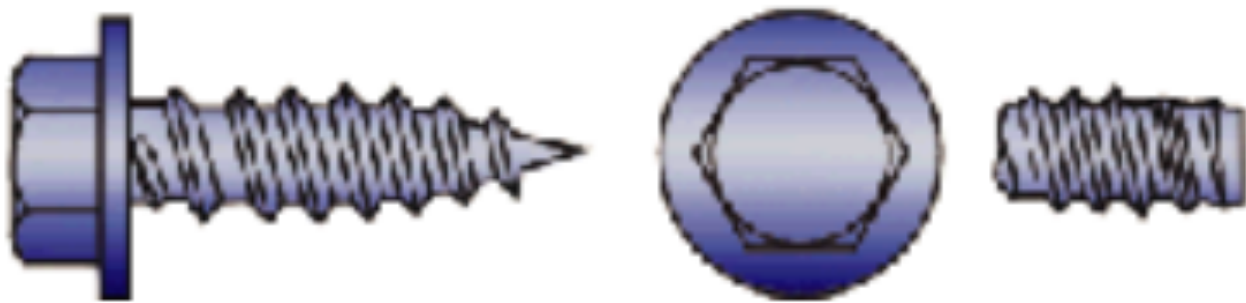
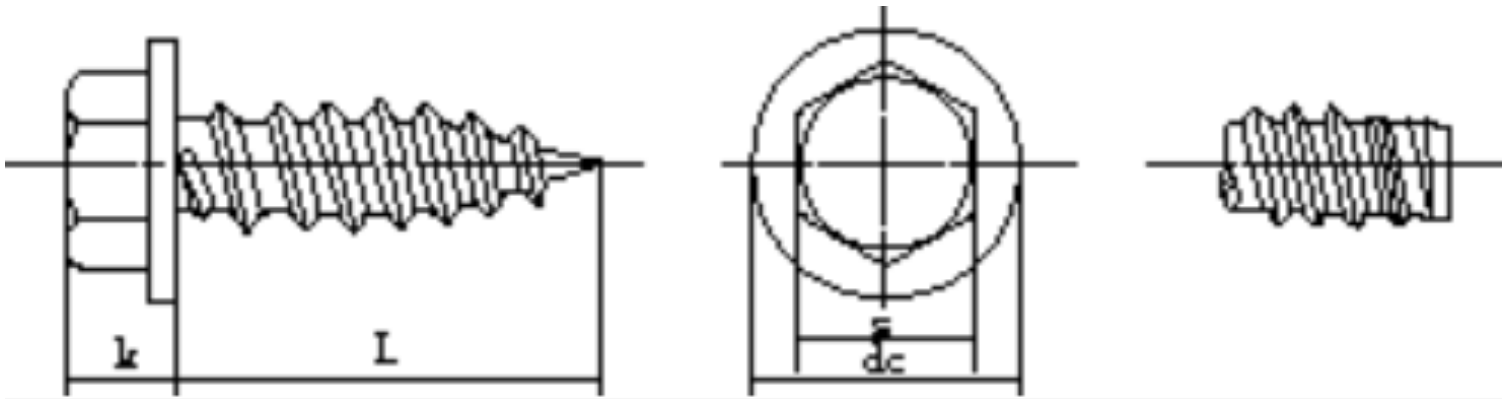
DIN 7976
HEXAGON HEAD TAPPING SCREWS
Thread Size: 2.9-6.3 Length(L): 6.5-50mm

Thread Size	e	k	s	L
2.9	5.45	1.5	5.0	6.5-19
3.5	6.00	2.3	5.5	9.5-25
3.9	7.66	2.3	7.0	9.5-25
4.2	7.66	2.8	7.0	9.5-32
4.8	8.79	3.0	8.0	9.5-50
5.5	8.79	4.0	8.0	13-50
6.3	11.05	4.8	10.0	13-50



DIN 6928
HEXAGON WASHER HEAD TAPPING SCREWS
Thread Size: 2.9-8.0 Length(L): 6.5-75mm

Thread Size	dc	k	s	L
ST2.9	6.30	2.80	4.00	6.5-25
ST3.5	8.30	3.40	5.50	6.5-50
ST4.2	8.80	4.00	7.00	9.5-50
ST4.8	10.5	4.30	8.00	9.5-63
ST6.3	13.5	5.90	10.0	13-75
ST8.0	18.0	7.00	13.0	13-75



MATERIALS

C1018
C1022
STAINLESS STEEL

STANDARD

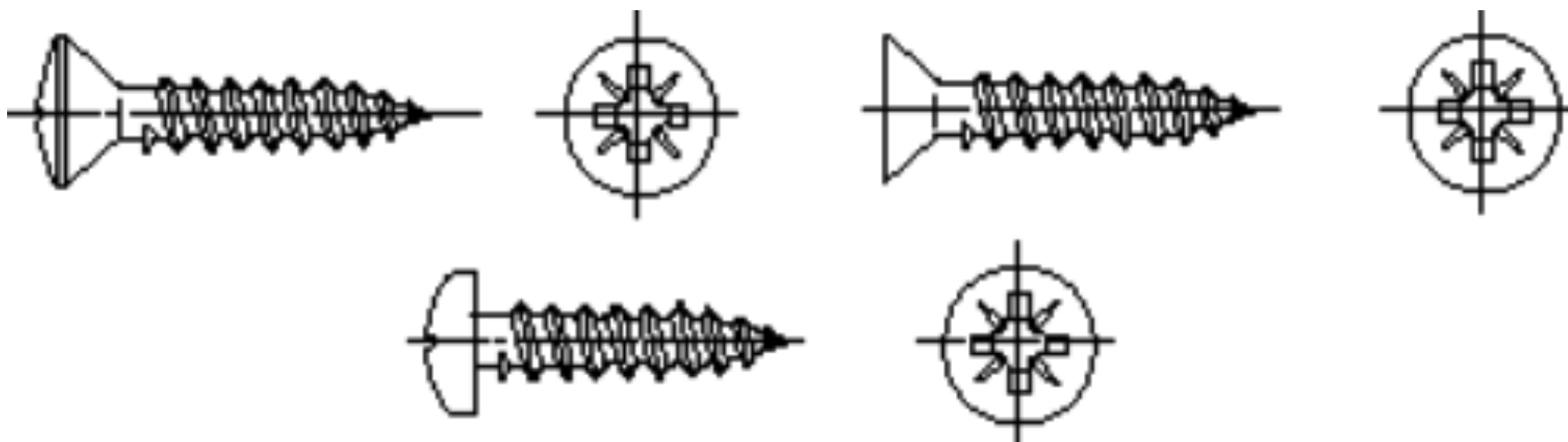
DIN 7976 / 6928
ISO 1479
BS 4174
GB 5285

Chipboard Screws

CHIPBOARD SCREW HARDDENED

Thread Size : 3, 3.5, 4, 4.5, 5, 6 mm

Length : 10-14, 13-50, 13-60, 15-70, 20-100, 30-120 mm



MATERIALS

C1022

STAINLESS STEEL

STANDARD

ART. J3651

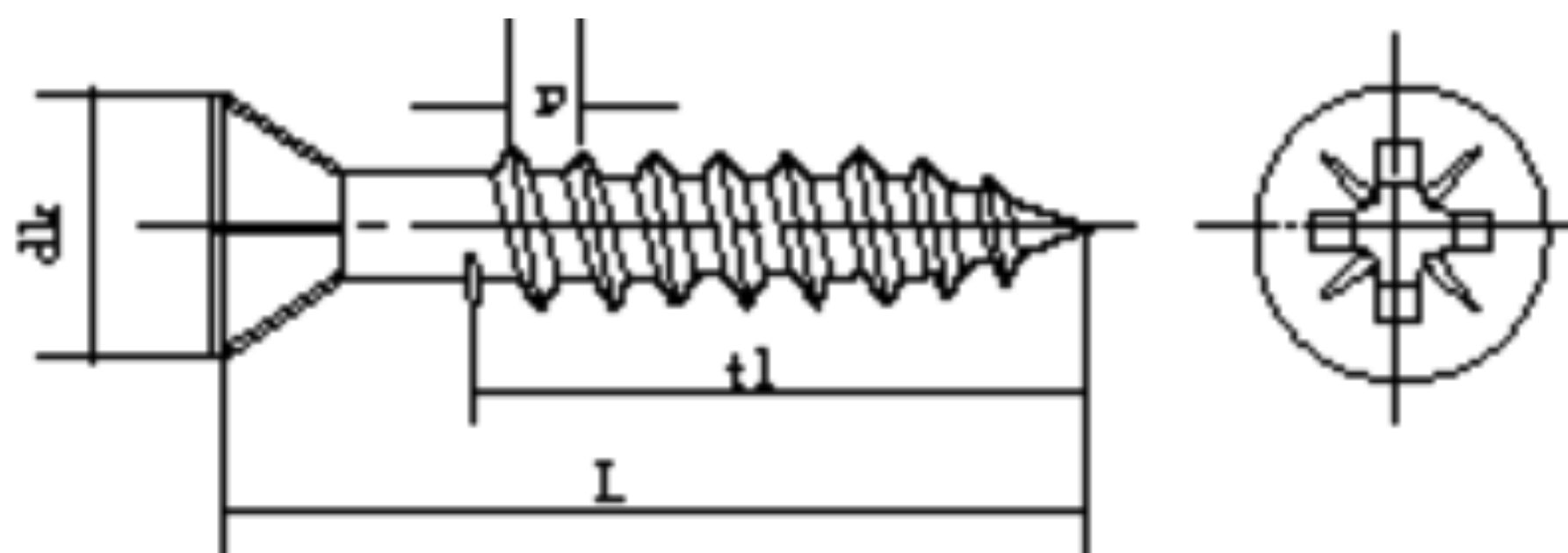
CHIPBOARD SCREW WITH RIBS UNDER THE HEAD

Thread Size : 3, 3.5, 4(#8), 4.5(#9), 5(#10), 6 mm

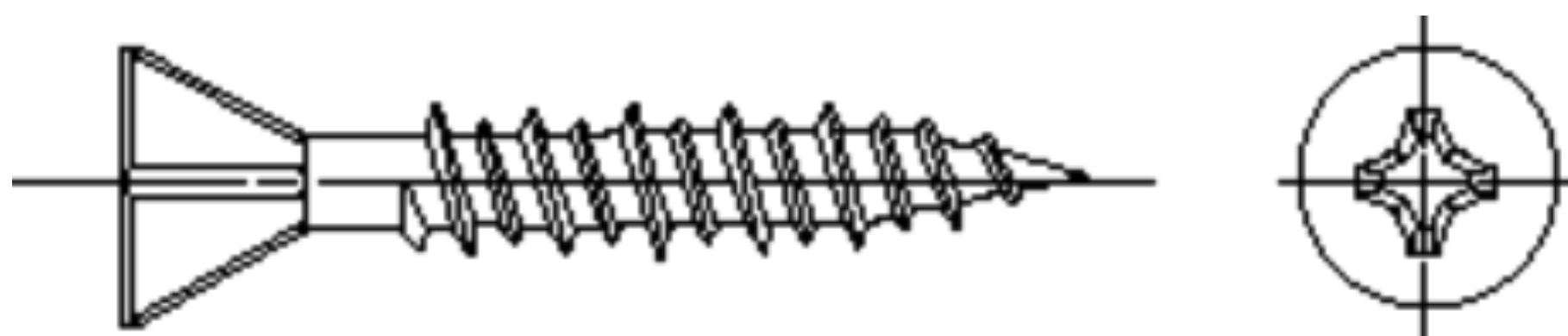
dK : 5.21-5.5, 6.55-6.91, 7.82-8.33, 8.5-9, 9.5-10, 11.5-12 mm

P-+10%. : 1.95, 2.1, 2.62, 2.82, 3.1, 3.3 mm

TI : L<25 all Thread, L>30, tl=3/2L, tl=60



FERMACELL SCREWS WITH RIBS UNDER HEAD

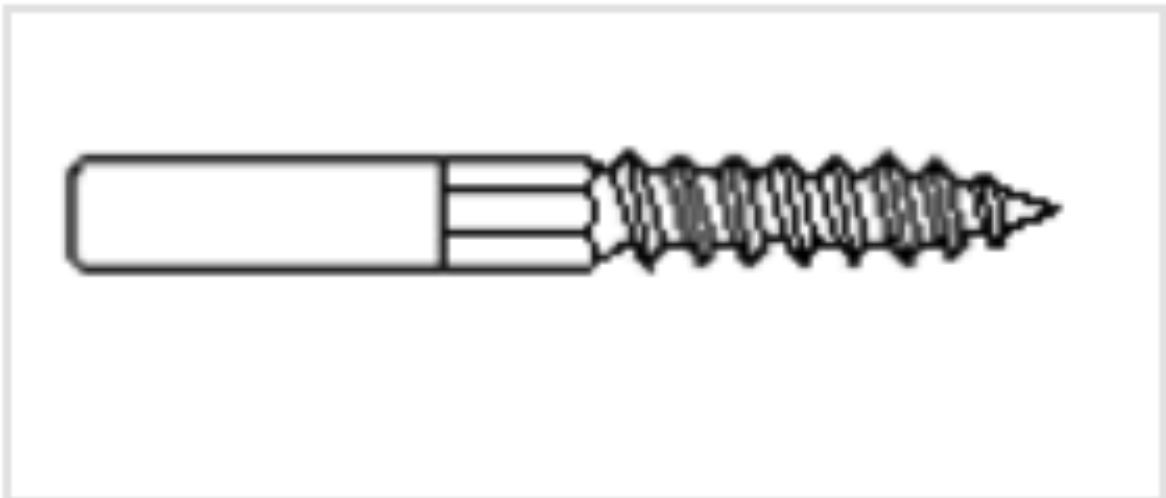


Other Tapping Screws

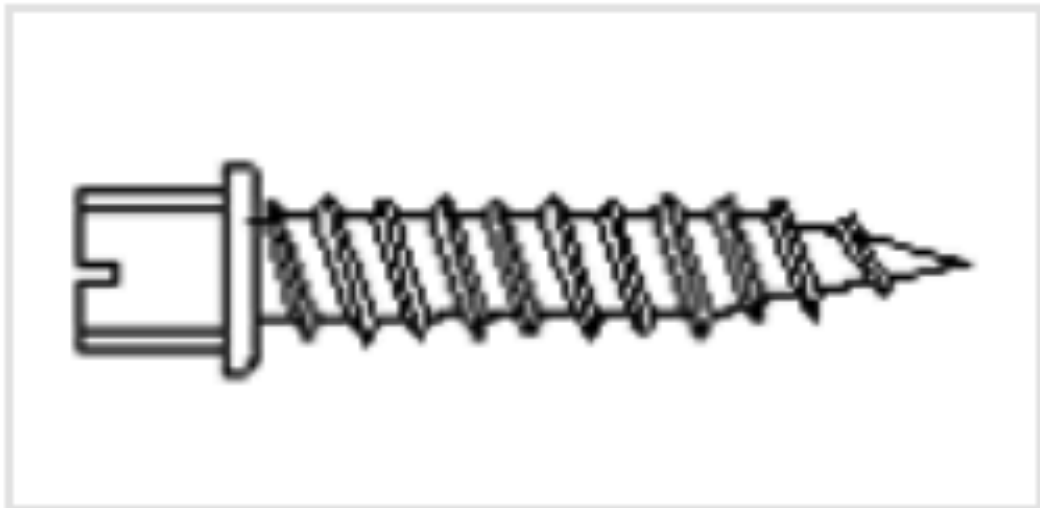
สกรูเกลียวปหล่อยแบบอื่นๆ



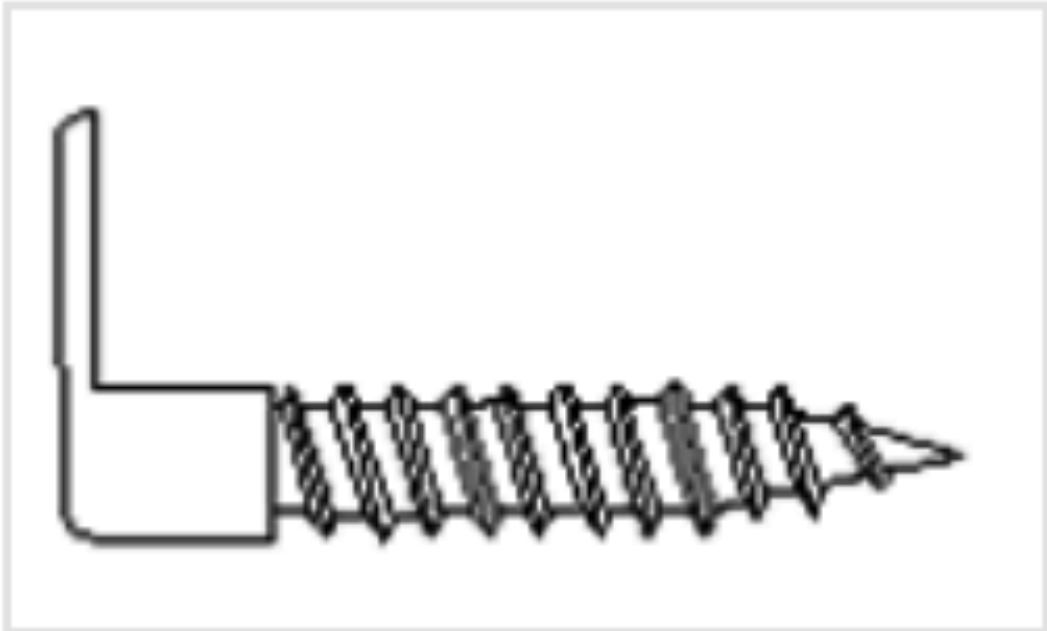
Saw Tooth Screws



Hanger Bolts



Wood to Metal Dowel Screws



Bend Head Wood Screw

MATERIALS
VARIOUS

STANDARD
VARIOUS

W A S H E R



Plain Washers

แหวนอีแปะ

ASTM F436 HARDENED STEEL WASHER

Size	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4
d1	9/32	11/32	13/32	17/32	11/16	13/16	15/16	1 1/8	1 1/4	1 3/8
d2	5/8	11/16	13/16	1 1/16	1 5/16	1 15/32	1 3/4	2	2 1/4	2 1/2
s	0.051	0.051	0.051	0.097	0.122	0.122	0.136	0.136	0.136	0.136

DIN 125 WASHERS (GRADE A)

d1	1.7	1.8	2.2	2.5	2.7	2.8	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	19	21	23
d2	4.0	4.5	5.0	6.0	6.0	7.0	7.0	8.0	9.0	10	12	14	16	20	24	28	30	34	37	39
s	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.8	1.0	1.6	1.6	1.6	2.0	2.5	2.5	3.0	3.0	3.0	3.

IFI L-2(K-4) PLAIN WASHERS (NARROW)

Size	6	8	10	3/16	12	1/4	5/16	3/8	7/16	1/2	9/16	5/8
d1	0.156	0.188	0.219	0.250	0.250	0.281	0.344	0.406	0.469	0.531	0.594	0.656
d2	0.375	0.438	0.500	0.562	0.562	0.625	0.688	0.812	0.922	1.062	1.156	1.312
s	0.049	0.049	0.049	0.049	0.065	0.065	0.065	0.065	0.065	0.095	0.095	0.095

Size	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4
d1	0.812	0.938	1.062	1.250	1.375	1.500	1.625	1.750	1.875	2.000	2.125	2.375
d2	1.469	1.750	2.000	2.250	2.500	2.750	3.000	3.750	4.000	4.250	4.500	4.750
s	0.134	0.134	0.134	0.134	0.165	0.165	0.165	0.180	0.180	0.180	0.180	0.220

IFI L-2(K-4) PLAIN WASHERS (WIDE)

Size	6	8	10	3/16	12	1/4	5/16	3/8	7/16	1/2	9/16	5/8
d1	0.156	0.188	0.219	0.250	0.250	0.312	0.375	0.438	0.500	0.562	0.625	0.688
d2	0.375	0.438	0.500	0.562	0.562	0.734	0.875	1.000	1.250	1.375	1.469	1.750
s	0.049	0.049	0.049	0.049	0.065	0.065	0.083	0.083	0.083	0.109	0.109	1.134

Size	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4
d1	0.812	0.938	1.062	1.250	1.375	1.500	1.625	1.750	1.875	2.000	2.125	2.375
d2	2.000	0.250	2.500	2.750	3.000	3.250	3.500	3.750	4.000	4.250	4.500	4.750
s	0.148	0.165	0.165	0.165	0.165	0.180	0.180	0.180	0.180	0.180	0.180	0.220

DIN 126 WASHERS (GRADE C)

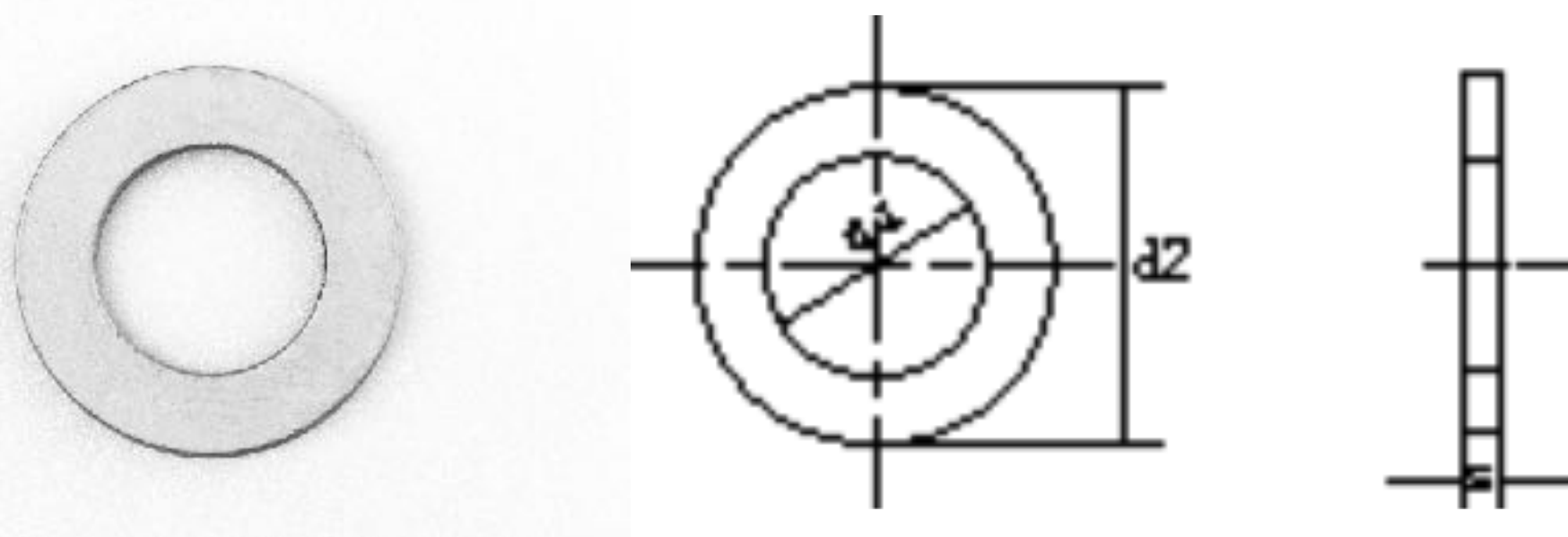
d1	5.5	6.6	7.6	9	11	13.5	15.5	17.5	20	22	24	26	30	33	36	39	42	45	48	52	56
d2	10	12.5	14	16	20	24	28	30	34	37	39	44	50	56	60	66	72	78	85	92	98
s	1	1.6	1.6	1.6	2	2.5	2.5	3	3	3	3	4	4	4	5	5	6	7	7	8	8

MATERIALS

CARBON STEEL
STAINLESS STEEL

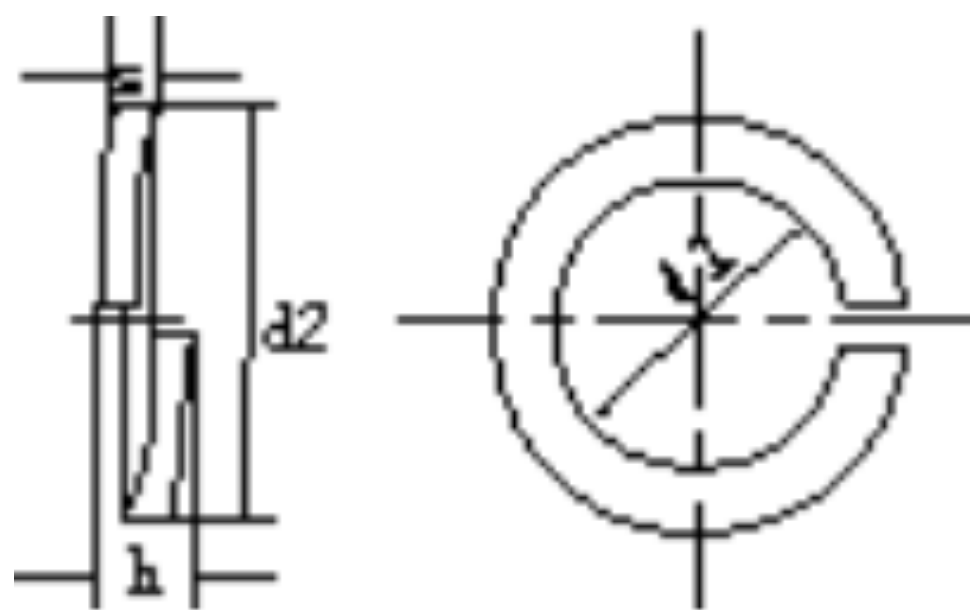
STANDARD

DIN
125/126/433/436/4
40/7349/7989/9021
ISO
7089/7090/7091/70
92/7093
GB
95/96/97/5287/848
IFI L-2
ASTM F436
B.S. 4320



Spring Lock Washers

แหวนสปริง



DIN 127 SPRING LOCK WASHERS

Nominal Size	3	3.5	4	5	6	7	8	10	12	14	16	18	20	22	24	27	30
d1	3.4	3.9	4.4	5.4	6.5	7.5	8.5	10.7	12.7	14.7	17	19	21.2	23.5	25.5	28.5	31.7
d2	6.2	6.7	7.6	9.2	11.8	12.8	14.8	18.1	21.1	24.1	27.4	29.4	33.6	35.9	40	43	48.2
h	1.9	1.9	2.1	2.8	3.8	3.8	4.7	5.2	5.9	7.1	8.3	8.3	9.4	9.4	11.8	11.8	14.2
s	0.8	0.8	0.9	1.2	1.6	1.6	2	2.2	2.5	3	3.5	3.5	4	4	5	5	6

B.S. SPRING LOCK WASHERS

Nominal size	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2
d1	0.133	0.164	0.196	0.266	0.328	0.391	0.453	0.516	0.601	0.656	0.781	0.906	1.031	1.156	1.281	1.531
d2	0.053	0.061	0.075	0.108	0.130	0.142	0.161	0.173	0.189	0.213	0.248	0.276	0.291	0.307	0.331	0.354
h	0.067	0.083	0.098	0.142	0.165	0.189	0.220	0.244	0.283	0.303	0.354	0.394	0.433	0.472	0.504	0.551
s	0.033	0.041	0.049	0.071	0.083	0.094	0.110	0.122	0.142	0.152	0.177	0.197	0.217	0.236	0.252	0.276

MATERIALS

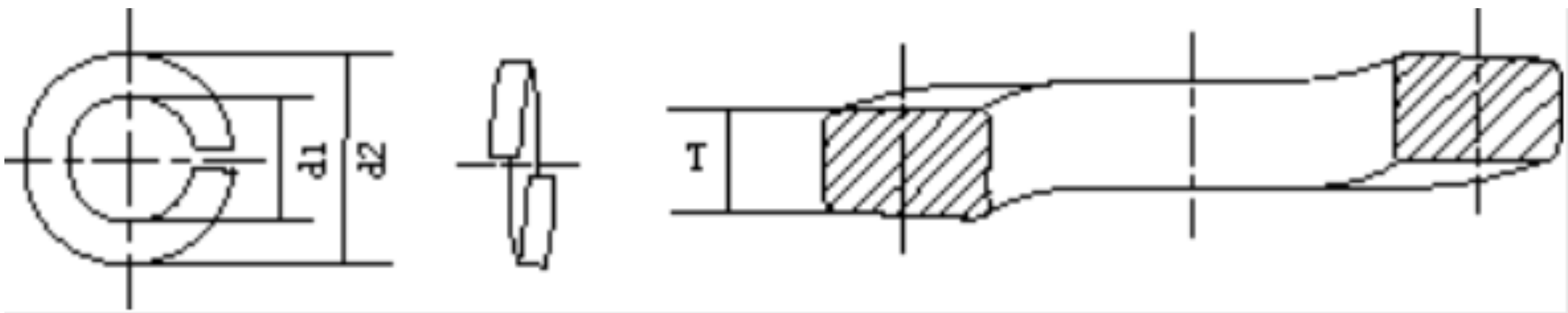
SPRING STEEL
STAINLESS STEEL

STANDARD

DIN 127
IFI L-9
GB 93
B.S.

Spring Lock Washers

แหวนสปริง

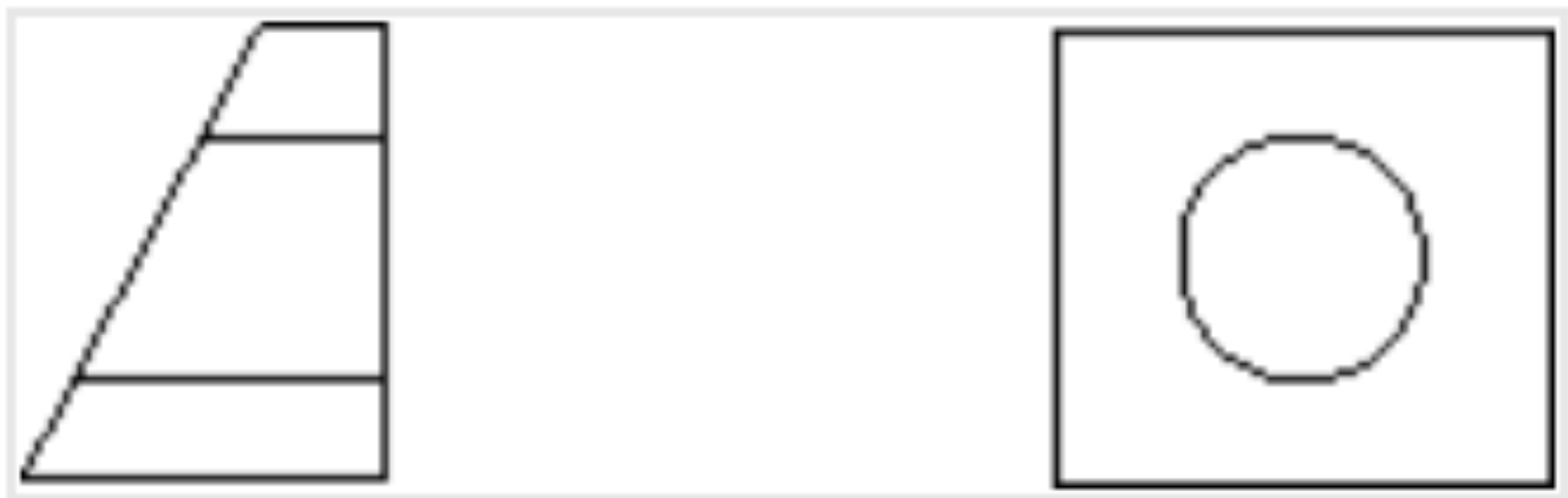


IFI L-9 (K-13) LOCK WASHERS

Nominal Size	6	8	10	12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	1 1/16	3/4
d1	0.141	0.167	0.193	0.220	0.254	0.317	0.380	0.443	0.506	0.570	0.635	0.698	0.760
d2	0.250	0.293	0.334	0.377	0.489	0.586	0.683	0.779	0.873	0.971	1.079	1.176	1.271
T	0.031	0.040	0.047	0.056	0.062	0.078	0.094	0.109	0.125	0.141	0.156	0.172	0.188

Nominal Size	13/16	7/8	15/16	1	1 1/16	1 1/8	1 13/16	1 1/4	1 5/16	1 3/8	1 7/16	1 1/2
d1	0.824	0.887	0.950	1.017	1.080	1.144	1.208	1.271	1.334	1.398	1.462	1.525
d2	1.367	1.464	1.560	1.661	1.756	1.853	1.950	2.045	2.141	2.239	2.334	2.430
T	0.203	0.219	0.234	0.250	0.266	0.281	0.297	0.312	0.328	0.344	0.359	0.75

IFI L-19 BEVELED WASHERS



MATERIALS

SPRING STEEL
STAINLESS STEEL

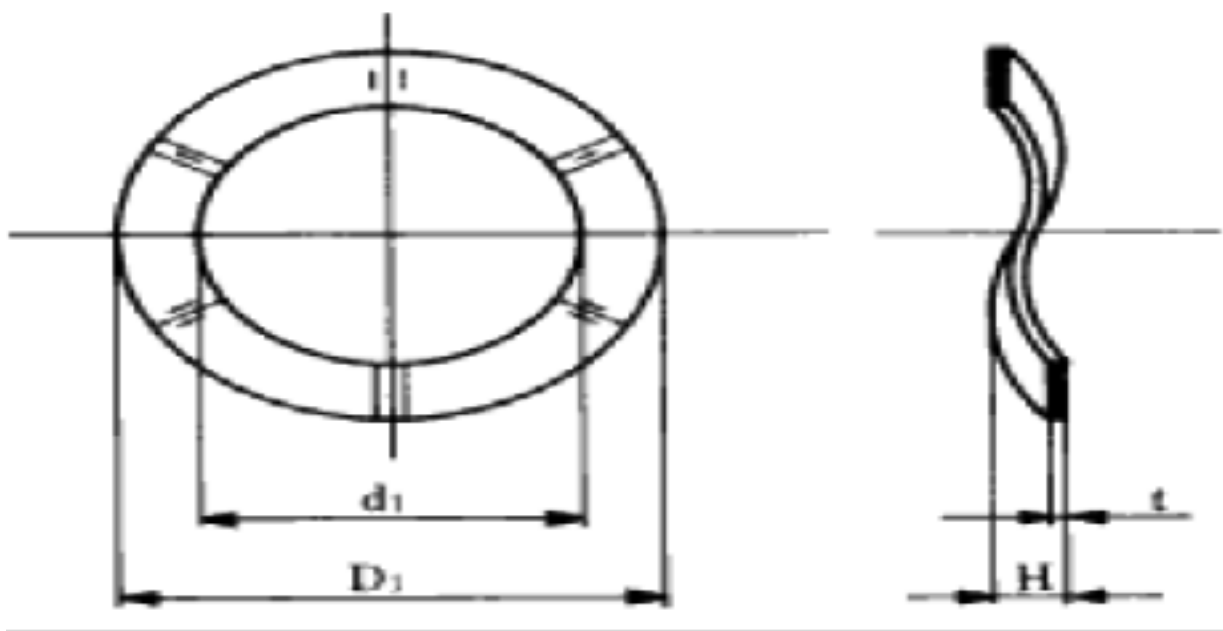
STANDARD

DIN 127
IFI L-9
GB 93
B.S.

Wave Washers

WAVE WASHER

Size - No.	Bearing Out Dia	d1	D1	H	t	Applicable bearing Nos.				
BWW- 624	13	8.8	12.8	1.5	0.15	695		624	633	
625	16	12	15	2	0.15			625	634	
626	19	12.7	18.1	2.5	0.2	698	607	626	635	
608	22	14.5	21	2.4	0.2	6900	508	627	636	
629	26	19.5	24.8	3.2	0.2		6000	629	637	
6001	28	20.9	26.9	3	0.25	6902	6001		638	
6200	30	22	28.5	4.1	0.25	6903		6200	639	
6201	32	23.5	30.5	4	0.25		6002	6201		
6202	35	26.4	33.9	3.5	0.3		6003	6202	6300	
6203	40	29.8	38.3	5	0.3			6203		
6302	42	30.1	40.6	4.5	0.3	6905	6004		6302	
6303	47	33.7	45.5	5	0.3	6906	6005	6204	6303	
6304	52	37.5	49	8	0.3			6205	6304	
6305	62	47.2	60.2	6.5	0.4	6908	6007	6206	6305	6403
6306	72	55	70.5	7	0.45	6910		6207	6306	6404
6307	80	61.3	77.8	8.5	0.45	6911	6010	6208	6307	6405
6308	90	69	88.5	7	0.6	6913	6011	6210	6308	6406
6309	100	79.3	98.8	6.5	0.7	6914	6013	6211	6309	6407
6310	110	88.9	108.9	8	0.8	6916	6014	6212	6310	6408
6311	120	95.8	118.9	8.5	0.8	6917		6213	6311	6409
6312	130	108.3	128.3	11	0.8	6919	6017	6215	6312	6410
6313	140	112.4	138.4	11	0.8	6920	6018	6216	6313	6411



MATERIALS

VARIOUS

STANDARD

VARIOUS



amorn
mongkol

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