

YUNTENG

FASTENER

Product Catalogue



Fasteners ManuFacture
EST.1999/ISO9001



HEBEI YUNTENG METAL PRODUCTS CO.,LTD.IS A PROFESSIONAL FASTENER MANUFACTURER IN CHINA.
WHY CHOOSE CHENGYI:
--21 YEARS OF PRODUCTION EXPERIENCE, EXPORTING TO 154 COUNTRIES, ACCUMULATIVELY SERVING 1800+ CUSTOMERS, RICHEXPORT EXPERIENCE, REDUCING YOUR IMPORT RISK.
--FACTORY DIRECT SALES, SAVING 15-30% OF THE MIDDLEMANPRICE DIFFERENCE.
--PASSED ISO9001/SO14001/IS045001/SGS, QUALITY CONTROL FROM MATERIAL SELECTION TO DELIVERY 20+ TIMES,AND PROVIDE FREE SAMPLES.
--5000 TONS IN STOCK, UP TO 3000 TONS PER MONTH, AVERAGE DELIVERY TIME 7-20 DAYS.
--AFTER-SALES TEAM OF 25 PEOPLE, SOLVE ALL AFTER-SALES PROBLEMS.

0 RISK COMMITMENT.
--IF THE PRODUCT QUALITY AND PACKAGING PROBLEMS ARE FOUND AFTER RECEIVING THE GOODS,HELP SOLVE THE PROBLEM AND UNCONDITIONALLY COMPENSATE THE LOSS WITHIN 30 DAYS.

OUR ADDED VALUE
--IN CHINA,PROVIDE YOU WITH FREE FACTORY INSPECTION SERVICES.



APPLICATION:
 USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



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 USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



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CARRIAGE BOLT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
ASME B18.5

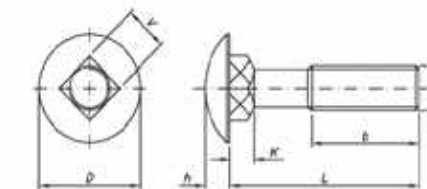


TABLE OF DIMENSIONS (MM)

d (diameter)	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
thread/FPP	BSW-24	UNC-20	UNC-18	UNC-16	UNC-14	BSW-12	UNC-11	UNC-10
h (head height) max.	2,89	3,68	4,47	5,28	6,07	6,85	8,73	10,31
D (head diameter) max.	11,91	15,08	18,26	21,43	24,61	27,78	34,13	40,48
K (quadrilateral height) max.	3,17	3,96	4,74	5,56	6,35	7,13	8,73	10,31
v (width of square) max	5,05	6,60	8,22	9,85	11,48	13,08	16,30	19,50
b (thread length) ref.	Se L <= 2" rosca inteira Se L > 2", 50 mm mín.							



GALVANIZED CARRIAGE BOLT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 603

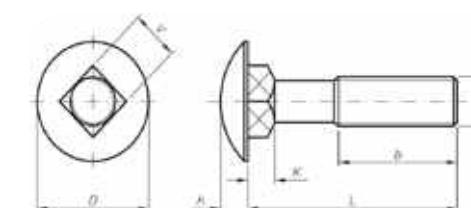


TABLE OF DIMENSIONS (MM)

d (diameter)	M6	M8	M10	M12
thread/FPP	MA-1,00	MA-1,25	MA-1,50	MA-1,75
h (head height) max.	3,88	4,88	5,38	6,95
D (head diameter) max.	16,55	20,65	24,65	30,65
K (quadrilateral height) max.	4,60	5,60	6,60	8,75
v (width of square) max	6,48	8,58	10,58	12,70
b (thread length) ref.	18,00	22,00	26,00	30,00

APPLICATION:
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HEXAGONAL FULL THREAD

HEXAGON HEAD SCREW FULL THREAD

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
GB 1228



TABLE OF DIMENSIONS (MM)

d (diameter)	3/16	1/4	5/16	3/8	7/16	1/2	1/2	9/16	5/8	3/4	7/8	1"	1-1/8	1-1/4	1-3/8	1-1/2
thread/FPP	BSW-24	UNC-20	UNC-18	UNC-16	UNC-14	UNC-13	BSW-12	UNC-12	UNC-11	UNC-10	UNC-9	UNC-8	UNC-7	UNC-7	UNC-6	UNC-6
s (key) nom	Pol	5/16	7/16	1/2	9/16	5/8	3/4	3/4	13/16	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/16
h (head height) max	mm	7.90	11.11	12.70	14.27	15.87	19.05	19.05	20.63	23.81	28.57	33.33	38.10	42.86	47.62	52.38
h (head height) max		3.17	4.14	5.33	6.17	7.39	8.20	8.20	9.42	10.23	12.26	14.30	15.92	18.23	20.65	24.73

HEAVY DUTY HEXAGON BOLT

HEAVY DUTY HEXAGON BOLT - ASTM A325

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
ASME B18.2.6

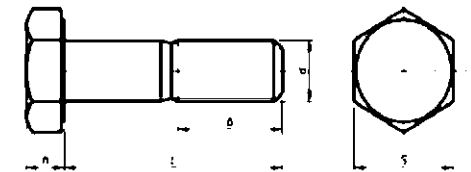


TABLE OF DIMENSIONS (MM)

d (diameter)	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2
thread/FPP	UNC-13	UNC-11	UNC-10	UNC-9	UNC-8	UNC-7	UNC-7	UNC-6	UNC-6
h (head height) max.	8,20	10,23	12,26	14,30	15,92	18,23	20,65	22,30	24,73
s (key) nom	pol	7/8	1-1/16	1-14	1-7/16	1-5/8	1-13/16	2	2-3/16
s (key) nom	mm	22,22	26,97	31,75	36,52	41,27	46,02	50,80	55,57
*b (thread length) ref.	25,40	31,75	35,05	38,10	44,45	50,80	50,80	57,15	57,15

HEXAGONAL FULL THREAD

HEXAGON HEAD SCREW FULL THREAD

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 933



TABLE OF DIMENSIONS (MM)

d (diameter)	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36
thread/step	MA-0,80	MA-1,00	MA-1,25	MA-1,50	MA-1,75	MA-2,00	MA-2,00	MA-2,50	MA-2,50	MA-2,50	MA-3,00	MA-3,00	MA-3,50	MA-3,50	MA-4,00
s (key) nom	8	10	13	17	19	22	24	27	30	32	36	41	46	50	55
h (head height) max	3,65	4,15	5,45	6,56	7,68	8,98	10,18	11,72	12,72	14,21	15,21	17,21	19,26	21,26	23,26

HEXAGONAL PARTIAL THREAD

HEXAGONAL PARTIAL THREAD

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 931

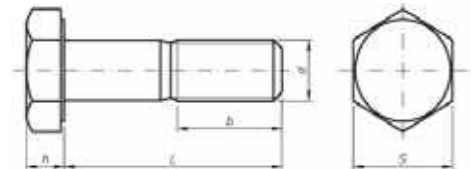


TABLE OF DIMENSIONS (MM)

d (diameter)	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36
thread/step	MA-1,00	MA-1,25	MA-1,50	MA-1,75	MA-2,00	MA-2,00	MA-2,50	MA-2,50	MA-2,50	MA-3,00	MA-3,00	MA-3,50	MA-3,50	MA-4,00
s (key) nom	10	13	17	19	22	24	27	30	32	36	41	46	50	55
h (head height) max	4,15	5,45	6,56	7,68	8,98	10,18	11,72	12,72	14,21	15,21	17,21	19,26	21,26	23,26
b (thread length) if L <= 125	18,00	22,00	26,00	30,00	34,00	38,00	42,00	46,00	50,00	54,00	60,00	66,00	72,00	78,00
b (thread length) if L > 125 to 200	24,00	28,00	32,00	36,00	40,00	44,00	48,00	52,00	56,00	60,00	66,00	72,00	78,00	84,00
b (thread length) if L > 200	-	-	45,00	49,00	53,00	57,00	61,00	65,00	69,00	73,00	79,00	85,00	91,00	97,00

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FLANGED HEXAGON



FLANGED HEXAGONAL BOLT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN6921

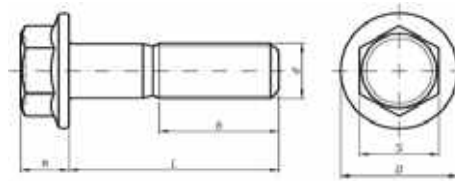


TABLE OF DIMENSIONS (MM)

d (diameter)	M6	M8	M10	M12	M14	M16	M20
thread/step	MA-1,00	MA-1,25	MA-1,50	MA-1,75	MA-2,00	MA-2,00	MA-2,50
s (key) nom	10	13	15	16	18	21	27
h (head height) max	6,60	8,10	9,20	11,50	12,80	14,40	17,10
D (head diameter) max	14,20	18,00	22,30	26,60	30,50	35,00	43,00
b (thread length) ref	18,00	22,00	26,00	30,00	34,00	38,00	46,00

HEXAGON SOCKET HEAD



HEXAGON SOCKET HEAD BOLT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 912

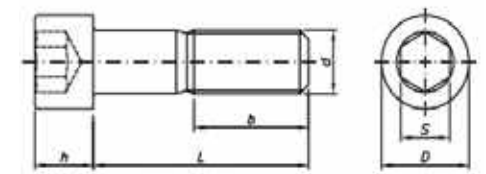


TABLE OF DIMENSIONS (MM)

d (diameter)	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20
thread/step	MA-0,40	MA-0,45	MA-0,50	MA-0,70	MA-0,80	MA-1,00	MA-1,25	MA-1,50	MA-1,75	MA-2,00	MA-2,50
s (key) nom	1.5	2	2.5	3	4	5	6	8	10	14	17
h (head height) max	2,00	2,35	3,00	4,00	5,00	6,00	8,00	10,00	12,00	16,00	20,00
D (head diameter) max	3,80	4,50	5,50	7,00	8,50	10,00	13,00	16,00	18,00	24,00	30,00
b (thread length) ref	16,00	17,00	18,00	20,00	22,00	24,00	28,00	32,00	36,00	44,00	52,00

HEXAGON SOCKET FLAT HEAD



FLAT-HEAD SCREW WITH HEXAGON SOCKET

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN7991(DIN EN ISO 10642)



TABLE OF DIMENSIONS (MM)

d (diameter)	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20
thread/step	MA-045	MA-0,50	MA-0,70	MA-0,80	MA-1,00	MA-1,25	MA-1,50	MA-1,75	MA-2,00	MA-2,50
s (key) nom	1.5	2	2.5	3	4	5	6	8	10	12
h (head height) max	1,50	1,70	2,30	2,80	3,30	4,40	5,50	6,50	7,50	8,50
D (head diameter) max	5,00	6,00	8,00	10,00	12,00	16,00	20,00	24,00	30,00	36,00
b (thread length) ref	-	12,00	14,00	16,00	18,00	22,00	26,00	30,00	38,00	46,00

APPLICATION:

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PAN HEAD SOCKET BOLTS



PAN HEAD SOCKET BOLTS

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
MARKET

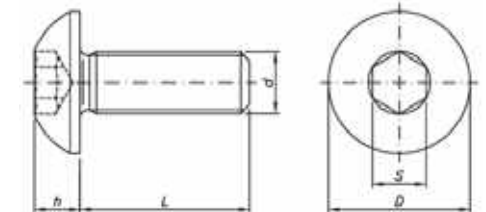


TABLE OF DIMENSIONS (MM)

d (diameter)	M3	M4	M5	M6	M8	M10
thread/step	MA-0,50	MA-0,70	MA-0,80	MA-1,00	MA-1,25	MA-1,50
s (key) nom	2	2.5	3	4	5	6
h (head height) max	1,65	2,20	2,75	3,30	4,40	5,50
b (thread length) ref	5,70	7,60	9,50	10,50	14,00	17,50

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POINTED HEAD SOCKET SET SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 914 (DIN EN ISO 4027)

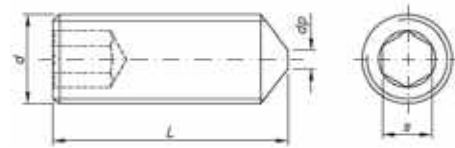


TABLE OF DIMENSIONS (MM)

d (diameter)	M3	M4	M5	M6	M8	M10	M12	M16
thread/step	MA-0,50	MA-0,70	MA-0,80	MA-1,00	MA-1,25	MA-1,50	MA-1,75	MA-2,00
s (key) nom	1,5	2,0	2,5	3,0	4,0	5,0	6,0	8,0
dp (tip diameter) max	-	-	-	1,50	2,00	2,50	3,00	4,00



HEXAGON SOCKET SET SCREW WITH CONCAVE

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 916

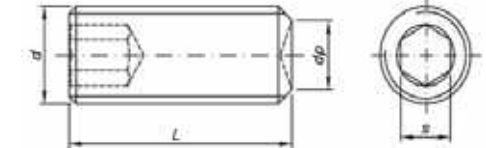


TABLE OF DIMENSIONS (MM)

d (diameter)	M3	M4	M5	M6	M8	M10	M12
thread/step	MA-0,50	MA-0,70	MA-0,80	MA-1,00	MA-1,25	MA-1,50	MA-1,75
s (key) nom	1,5	2	2,5	3	4	5	6
dp (tip diameter) max	1,40	2,00	2,50	3,00	5,00	6,00	8,00



CONVEX CYLINDRICAL HEAD SOCKET SET SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 915 (DIN EN ISO 4028)

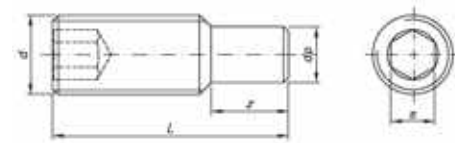


TABLE OF DIMENSIONS (MM)

d (diameter)	M4	M5	M6	M8	M10	M12
thread/step	MA-0,70	MA-0,80	MA-1,00	MA-1,25	MA-1,50	MA-1,75
s (key) nom	2	2,5	3	4	5	6
dp (tip diameter) max	2,50	3,50	4,00	5,50	7,00	8,50
Z (tip length) max	p/ L = 6 Z=1,25	p/ L = 6 Z=1,50	p/ L = 8 Z=1,75	p/ L < 10 Z=2,25	p/ L = 12 Z=2,75	p/ L = 16 Z=3,25
	p/ L > 6 Z=2,25	p/ L > 6 Z=2,75	p/ L > 8 Z=3,25	p/ L > 10 Z=4,30	p/ L > 12 Z=5,30	p/ L > 16 Z=6,30



SLOTTED SET SCREW WITH FLAT POINT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 24766

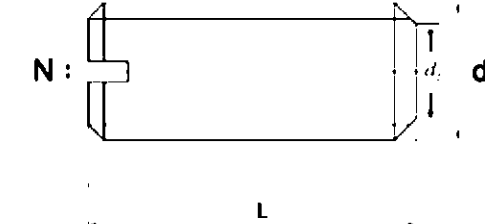


TABLE OF DIMENSIONS (MM)

d (diameter)	M3	M4	M5	M6	M8	M10	M12
thread/step	MA-0,50	MA-0,70	MA-0,80	MA-1,00	MA-1,25	MA-1,50	MA-1,75
N (slot opening) max	0,40	0,60	0,80	1,00	1,20	1,60	2,00
dp (tip diameter) max	2,00	2,50	3,50	4	5,50	7	8,50

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POINTED HEAD SOCKET SET SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 7985

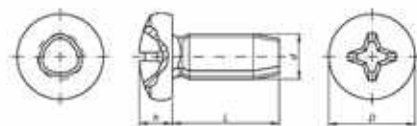


TABLE OF DIMENSIONS (MM)

d (diameter)	M3	M3.5	M4	M5	M6
thread	0,50	0,60	0,70	0,80	1,00
d (head diameter) max	6,00	7,00	8,00	10,00	12,00
h (head height) max	2,52	2,82	3,25	3,95	4,75
chave phs nº	1	2	2	2	3



CONVEX CYLINDRICAL HEAD SOCKET SET SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 915 (DIN EN ISO 4028)

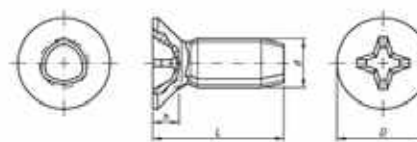


TABLE OF DIMENSIONS (MM)

d (diameter)	M4	M5
step	0,70	0,80
d (head diameter) max	7,50	9,20
h (head height) max	2,20	2,50
chave phs nº	2	2

APPLICATION:

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HEXAGON HEAD BOLTS WITH FINE TEETH

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 960

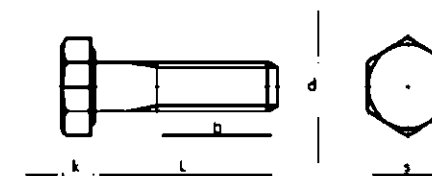


TABLE OF DIMENSIONS (MM)

d (diameter)	M8	M10	M12	M14	M16	M18	M20	M22	M24
b	22	26	30	34	38	42	46	50	54
k	5,3	6,4	7,5	8,8	10	11,5	12,5	14	15
s	13	17/16*	19/18*	22/21*	24	27	30	32/34*	36



FULL THREAD FINE THREAD HEXAGON HEAD BOLTS

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 961

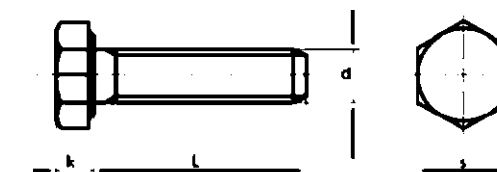


TABLE OF DIMENSIONS (MM)

d (diameter)	M8	M10	M12	M14	M16	M18	M20
k (max)	5,45	6,58	7,68	8,98	10,18	11,72	12,72
s	12,73	16,73	18,67	21,67	23,67	26,67	29,67

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

CYLINDRICAL HEAD BOLTS

SLOTTED CYLINDRICAL HEAD BOLTS



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 84

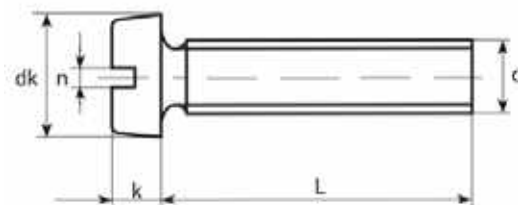


TABLE OF DIMENSIONS (MM)

d (diameter)	M3	M4	M5	M6	M8
p	0,50	0,70	0,80	1,00	1,25
dk	5,50	7,00	8,50	10,00	13,00
k	2,00	2,60	3,30	3,90	5,00
n	0,8	1,2	1,2	1,6	2

PAN HEAD BOLTS

SLOTTED PAN HEAD BOLTS



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 85

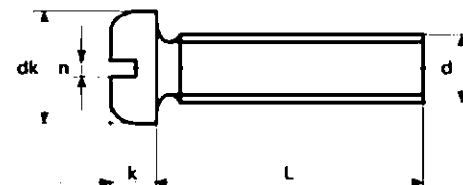


TABLE OF DIMENSIONS (MM)

d (diameter)	M3	M4	M5	M6	M8
p	0,50	0,70	0,80	1,00	1,25
dk	6,00	8,00	10,00	12,00	16,00
k	1,8	2,4	3	3,6	4,8
n	0,8	1,2	1,2	1,6	2

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

HEX BOLT

HEXAGON HEAD BOLTS WITH FINE TEETH



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 960

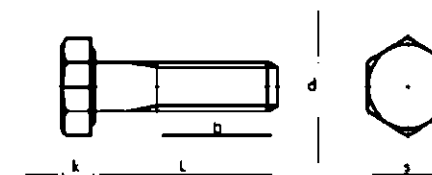


TABLE OF DIMENSIONS (MM)

d (diameter)	M8	M10	M12	M14	M16	M18
p	0,50	0,70	0,80	1,00	1,25	1,50
dk	5,6	7,5	9,2	1	14,5	18
k (max)	1,65	2,2	2,5	3	4	5
n	0,8	1	1,2	1,6	2	2,5

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



HEXAGON NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 934

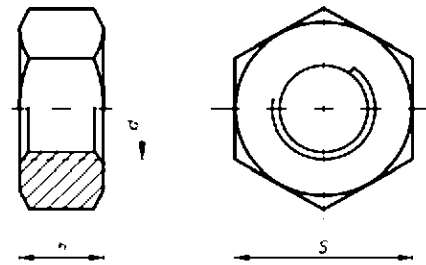


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/ FPP	h (Height) max	s(key) max	
			pol	mm
#2	UNC-56	1,67	3/16	4,76
#4	UNC-40	2,49	1/4	6,35
#5	UNC-40	2,89	5/16	7,93
#6	UNC-32	2,89	5/16	7,93
#8	UNC-32	3,30	11/32	8,73
#10	UNC-24	3,30	3/8	9,52
1/8	BSW-40	2,90	1/4	6,35
5/32	BSW-32	2,90	1/4	6,35
3/16	BSW-24	4,20	5/16	7,93
1/4	UNC-20	5,74	7/16	11,11
5/16	UNC-18	6,93	1/2	12,70
3/8	UNC-16	8,56	9/16	14,27
7/16	UNC-14	9,78	11/16	17,46
1/2	UNC-13	11,38	3/4	19,05
1/2	BSW-12	11,38	3/4	19,05
9/16	UNC-12	12,60	7/8	22,22
5/8	UNC-11	14,20	15/16	23,81
3/4	UNC-10	16,89	1-1/8	28,57
7/8	UNC-9	19,71	1-5/16	33,33
1	UNC-8	22,53	1-1/2	38,10
1-1/8	UNC-7	25,37	1-11/16	42,86
1-1/4	UNC-7	27,78	1-7/8	47,62
1-3/8	UNC-6	30,63	2-1/16	52,38
1-1/2	UNC-6	33,45	2-1/4	57,15
1-3/4	UNC-5	39,01	2-5/8	66,67
2	UNC-4-1/2	44,67	3	76,20

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



HEAVY DUTY HEX NUT - ASTM A194

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
ASTM A194

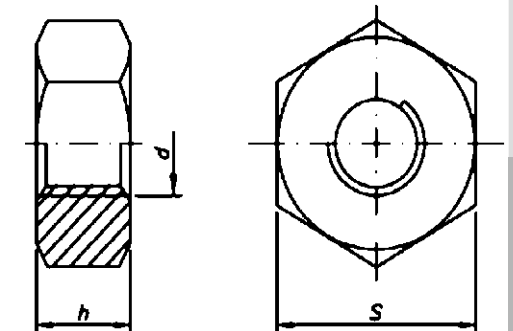


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/FPP	h (Height)max	s(key) max	
			pol	mm
1/4	UNC-20	6,35	1/2	12,70
5/16	UNC-18	7,97	9/16	14,27
3/8	UNC-16	9,57	11/16	17,47
7/16	UNC-14	11,20	3/4	19,05
1/2	UNC-13	12,80	7/8	22,22
9/16	UNC-12	14,42	15/16	23,81
5/8	UNC-11	16,02	1-1/16	26,97
3/4	UNC-10	19,25	1-1/4	31,75
7/8	UNC-9	22,47	1-7/16	36,52
1	UNC-8	25,70	1-5/8	41,27
1-1/8	UNC-7	28,93	1-13/16	46,02
1-1/4	UNC-7	31,77	2	50,80
1-3/8	UNC-6	35,00	2-3/16	55,56
1-1/2	UNC-6	38,22	2-3/8	60,32
1-3/4	UNC-5	44,67	2-3/4	69,85
2	UNC-4-1/2	51,13	3-1/8	79,37
2-1/4	UNC-4-1/2	57,15	3-1/2	88,90
2-1/2	UNC-4	63,62	3-7/8	98,42
2-3/4	UNC-4	70,07	4-1/4	107,95
3	UNC-4	76,53	4-5/8	117,47
1-1/8	UN-8	28,91	1-13/16	46,02
1-1/4	UN-8	31,77	2	50,80
1-3/8	UN-8	35,00	2-3/16	55,56
1-1/2	UN-8	38,22	2-3/8	60,32
1-5/8	UN-8	41,45	2-9/16	65,07
1-3/4	UN-8	44,67	2-3/4	69,85
1-7/8	UN-8	47,90	2-15/16	74,62
2	UN-8	51,13	3-1/8	79,37
2-1/4	UN-8	57,15	3-1/2	88,90
2-1/2	UN-8	63,62	3-7/8	98,42
2-3/4	UN-8	70,07	4-1/4	107,95
3	UN-8	76,53	4-5/8	117,47
3-1/2	UN-8	89,05	5-3/8	136,52

FLANGE NUT

FLANGE HEXAGON NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
ASME B18.2.2

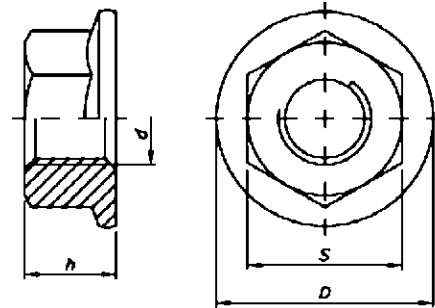


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/FPP	s(key) max		h (height)		D (flange diameter) max
		pol	mm	lowest	greatest	
1/4	UNC-20	7/16	11,11	5,63	5,99	15,08
5/16	UNC-18	1/2	12,70	6,80	7,18	17,27
3/8	UNC-16	9/16	14,27	8,38	8,81	19,05
7/16	UNC-14	5/8	15,87	9,52	10,03	23,79
1/2	UNC-13	3/4	19,05	11,09	11,63	26,18
9/16	UNC-12	7/8	22,22	12,26	12,85	30,17
5/8	UNC-11	15/16	23,81	13,84	14,45	32,53
3/4	UNC-10	1-1/8	28,57	15,92	17,14	38,10

FLANGE NUT

FLANGE HEXAGON NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 6923 (DIN EN 1661)

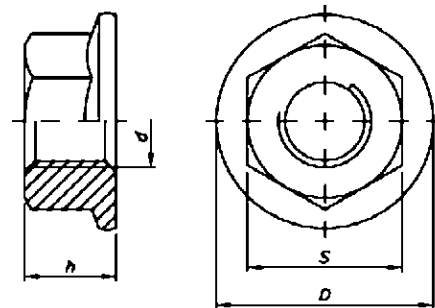


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/step	s(key) max	h (height)		D (flange diameter) max
			lowest	greatest	
M6	MA-1,00	10	5,70	6,00	14,20
M8	MA-1,25	13	7,60	8,00	17,90
M10	MA-1,50	15	9,60	10,00	21,80
M12	MA-1,75	18	11,60	12,00	26,00
M14	MA-2,00	21	13,30	14,00	29,90
M16	MA-2,00	24	15,30	16,00	34,50

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

ACORN NUT

ACORN NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
MARKET

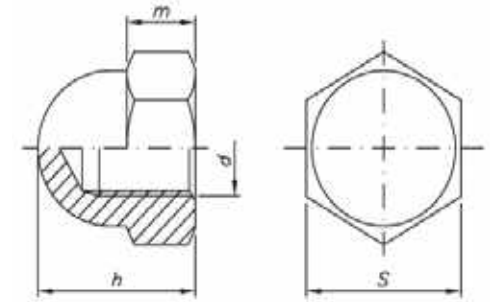


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/FPP	h (Height)max	m (Key height)max	s(key) max	
				pol	mm
#5	UNC-40	6,50	3,40	1/4	6,35
#8	UNC-32	7,80	4,00	5/16	7,93
#10	UNC-24	10,24	4,40	3/8	9,52
1/4	UNC-20	12,12	6,00	7/16	11,11
5/16	UNC-18	13,70	6,55	9/16	14,27
3/8	UNC-16	16,10	7,50	5/8	15,87
1/2	UNC-13	20,80	10,00	3/4	19,05
5/8	UNC-11	25,75	11,70	1	25,40

ACORN NUT

ACORN NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 1587

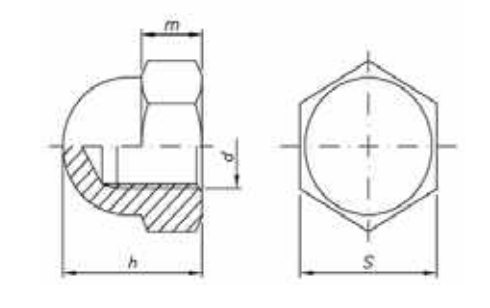


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/step	h (Height)max	m (Key height)max	s(key) max
M3	MA-0,50	6,50	2,50	5,5
M4	MA-0,70	8,00	3,20	7
M5	MA-0,80	10,00	4,00	8
M6	MA-1,00	12,00	5,00	10
M8	MA-1,25	15,00	6,50	13
M10	MA-1,50	18,00	8,00	17
M12	MA-1,75	22,00	10,00	19
M16	MA-2,00	28,00	13,00	24

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



HEAVY SQUARE NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 557

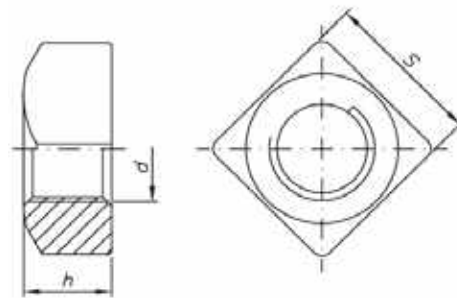


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/step	h (height) max	s(key) max	
			pol	mm
1/4	UNC-20	6,75	1/2	12,70
5/16	UNC-18	8,38	9/16	14,27
3/8	UNC-16	9,98	11/16	17,46
7/16	UNC-14	11,58	3/4	19,05
1/2	UNC-13	13,20	7/8	22,22
1/2	UNC-12	13,20	7/8	22,22
5/8	UNC-11	16,43	1-1/16	26,98
3/4	UNC-10	19,65	1-1/4	31,75
7/8	UNC-9	22,29	1-7/16	36,51
1	UNC-8	26,11	1-5/8	41,27
1-1/8	UNC-7	29,33	1-13/16	46,03
1-1/4	UNC-7	32,56	2	50,80

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



LIGHT SQUARE NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 557

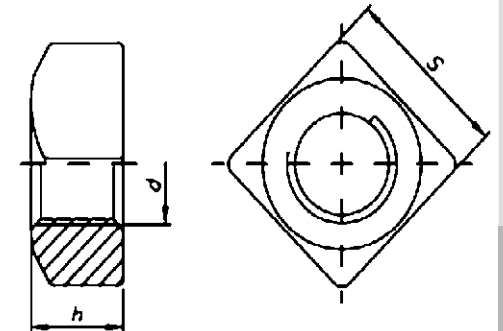


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/FPP	h (Height) max	s(key) max	
			pol	mm
1/4	UNC-20	5,00	7/16	11,11
5/16	UNC-18	5,50	1/2	12,70
3/8	UNC-16	8,20	9/16	14,27
7/16	UNC-14	9,52	3/4	19,05
1/2	UNC-13	11,38	3/4	19,05
1/2	UNC-12	11,38	3/4	19,05
5/8	UNC-11	14,20	15/16	23,81
3/4	UNC-10	17,27	1-1/8	28,57
7/8	UNC-9	20,11	1-5/16	33,33
1	UNC-8	22,93	1-1/2	38,10
1-1/8	UNC-7	25,37	1-5/8	41,27
1-1/4	UNC-7	25,70	1-7/8	47,62
1-3/8	UNC-6	29,77	2	50,80

d (diameter)	thread/FPP	h (Height) max	s(key) max
M 6	MA-1,00	5,00	10,00
M8	MA-1,25	6,50	13,00
M10	MA-1,50	8,00	17,00
M12	MA-1,75	10,00	19,00
M14	MA-2,00	12,50	24,00
M16	MA-2,00	13,00	24,00
M18	MA-2,50	16,50	30,00
M20	MA-2,50	16,00	30,00
M22	MA-2,50	18,00	32,00
M24	MA-3,00	19,00	36,00

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

NYLON LOCK NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 982 (DIN EN ISO 7040)

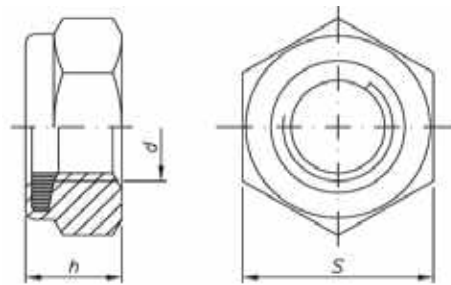


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/step	h (height) max	s(key) max
M 3	MA-0,50	4,00	5,5
M4	MA-0,70	5,00	7
M5	MA-0,80	5,00	8
M6	MA-1,00	6,00	10
M8	MA-1,25	8,00	13
M10	MA-1,50	10,00	17
M12	MA-1,75	12,00	19
M14	MA-2,00	14,00	22
M16	MA-2,00	16,00	24
M18	MA-2,50	18,50	27
M20	MA-2,50	20,00	30
M22	MA-2,50	22,00	32
M24	MA-3,00	24,00	36
M27	MA-3,00	27,00	41
M30	MA-3,50	30,00	46
M33	MA-3,50	33,00	50
M36	MA-4,00	36,00	55

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

COUPLING NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 6334

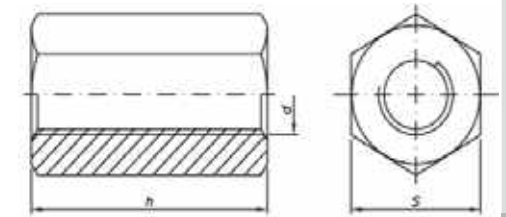


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/FPP	h (Height) max	s(key) max	
			pol	mm
1/4	UNC-20	25,40	3/8	9,52
5/16	UNC-18	25,40	1/2	12,70
3/8	UNC-16	25,40	1/2	12,70
3/8	UNC-16	25,40	9/16	14,27
1/2	UNC-13	50,80	3/4	19,05
1/2	UNC-12	50,80	3/4	19,05
5/8	UNC-11	50,80	13/16	20,63
3/4	UNC-10	50,80	1	25,40

d (diameter)	thread/FPP	h (Height) max	s(key) max
M 4	MA-1,00	18,00	10,00
M 5	MA-1,25	24,00	13,00
M 6	MA-1,50	30,00	17,00
M 8	MA-1,75	36,00	19,00
M10	MA-2,00	48,00	24,00
M12	MA-2,50	60,00	30,00

COUPLING NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 314/ASME B 18.6.X

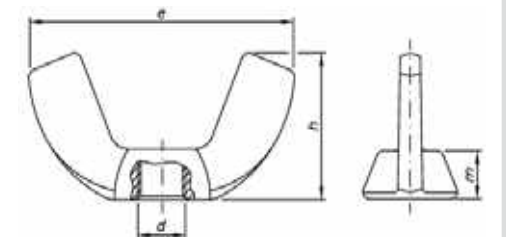


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/FPP	m (body height) max	e (length) max	h (Height)max
#5	UNC-40	3,55	17,78	10,16
#8	UNC-32	4,31	22,86	11,68
#10	UNC-24	4,31	22,86	11,68
1/4	UNC-20	5,33	27,43	14,22
5/16	UNC-18	6,09	31,49	16,51
3/8	UNC-16	7,11	36,06	20,06
1/2	UNC-13	9,39	48,26	25,40
5/8	UNC-11	13,71	69,85	36,32

d (diameter)	thread/FPP	m (body height) max	e (length) max	h (Height)max
M3	MA-0,50	3,55	17,78	10,16
M4	MA-0,70	4,31	22,86	11,68
M5	MA-0,80	4,31	22,86	11,68
M6	MA-1,00	5,33	27,43	14,22
M8	MA-1,25	6,09	31,49	16,51
M10	MA-1,50	7,11	36,06	20,06
M12	MA-1,75	8,63	47,49	25,40
M16	MA-2,00	13,71	69,85	36,32

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

CASTLE NUT



CASTLE NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 935

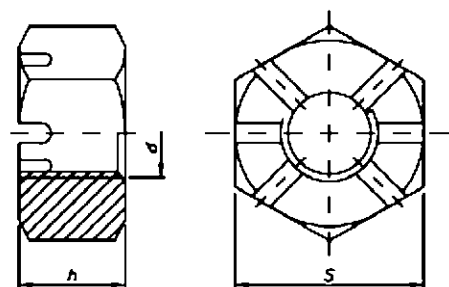


TABLE OF DIMENSIONS (MM)

d (diameter)	thread/FPP	h (Height)max	s(key) max	
			pol	mm
1/2	UNF-20	11,38	3/4	19,05
9/16	UNF-18	12,60	7/8	22,22
5/8	UNF-18	14,20	15/16	23,81
3/4	UNF-16	16,89	1-1/8	28,57
7/8	UNF-14	19,71	1-5/16	33,33
1	UNF-14	22,53	1-1/2	38,10
1	UNF-12	22,53	1-1/2	38,10
1-1/8	UNF-12	25,37	1-5/8	41,27
1-1/4	UNF-12	27,78	1-7/8	47,62
1-3/8	UNF-12	30,63	2	50,80
1-1/2	UNF-12	33,45	2-1/4	57,15

d (diameter)	thread/step	h (Height)max	s(key) max
M10	MB-1,00	8,00	17
M12	MB-1,50	10,00	19
M14	MB-1,50	11,00	22
M16	MB-1,50	13,00	24
M18	MB-1,50	15,00	27
M20	MB-1,50	16,00	30
M22	MB-1,50	18,00	32
M24	MB-2,00	19,00	36
M27	MB-2,00	22,00	41
M30	MB-2,00	24,00	46
M33	MB-2,00	26,00	50
M36	MB-3,00	29,00	55

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

TEE NUT



TEE NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 1624

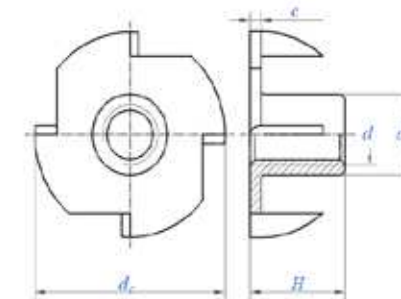


TABLE OF DIMENSIONS (MM)

d (diameter)	Thread distance	de	H	dc	c
M4	0.7	5.6	6.95	15	0.95
M5	0.8	6.5	9.15	17	1.15
M6	1	7.7	10.3	19	1.3
M8	1.25	10	12.75	22	1.75
M10	1.5	12	14.5	25.5	1.5

THIN HEX NUT



THIN HEX NUT

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 936

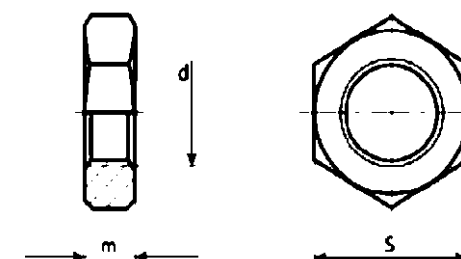


TABLE OF DIMENSIONS (MM)

d (diameter)	m (nom)	s (nom)
M8	5	13
M10	6	17/16*
M12	7	19/18*
M14	8	22/21*
M16	8	24
M18	9	27
M20	9	30
M22	10	32/34*
M24	10	36

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

FLAT WASHER

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 125

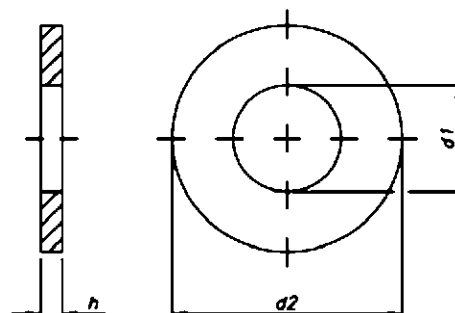


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter)		d2 (external diameter)		h (thickness)	
	Min	Max	Min	Max	Min	Max
M 2	2,20	2,34	4,70	5,00	0,25	0,35
M2,5	2,70	2,84	5,70	6,00	0,45	0,55
M 3	3,20	3,38	6,64	7,00	0,45	0,55
M 4	4,30	4,48	8,64	9,00	0,70	0,90
M 5	5,30	5,48	9,64	10,00	0,90	1,10
M 6	6,40	6,62	11,57	12,00	1,40	1,80
M 8	8,40	8,62	15,57	16,00	1,40	1,80
M 10	10,50	10,77	19,48	20,00	1,80	2,20
M 12	13,00	13,27	23,48	24,00	2,30	2,70
M 14	15,00	15,27	27,48	28,00	2,30	2,70
M 16	17,00	17,27	29,48	30,00	2,70	3,30
M 18	19,00	19,27	33,48	34,00	2,70	3,30
M 20	21,00	21,33	36,38	37,00	2,70	3,30
M 22	23,00	23,33	38,38	39,00	2,70	3,30
M 24	25,00	25,33	43,38	44,00	3,70	4,30
M 27	28,00	28,33	49,38	50,00	3,70	4,30
M 30	31,00	31,39	55,26	56,00	3,70	4,30
M 33	34,00	34,62	58,80	60,00	4,40	5,60
M 36	37,00	37,62	64,80	66,00	4,40	5,60

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

FLAT WASHER

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
ISO 7089

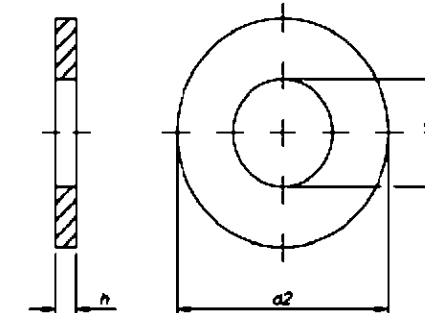


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter)		d2 (external diameter)	h (thickness)	
	Min	Max	Max	Min	Max
#4	3,04	3,37	9,72	0,90	1,20
#5-1/8	3,45	3,78	10,51	0,90	1,20
#6	3,83	4,16	9,72	0,90	1,20
#8-5/32	4,64	4,97	11,50	0,90	1,20
#10-3/16	5,43	5,76	13,08	0,90	1,20
1/4	7,00	7,50	16,25	1,20	1,50
5/16	8,61	9,11	17,85	1,40	1,70
3/8	10,18	10,69	21,00	1,40	1,70
7/16	11,80	12,30	23,80	1,40	1,70
1/2	13,36	13,86	27,73	1,90	2,20
9/16	14,96	15,45	30,12	1,90	2,20
5/8	16,48	17,42	34,08	1,90	2,20
3/4	20,44	21,38	38,07	2,90	3,20
7/8	23,64	24,58	45,21	2,90	3,20
1	26,80	27,73	51,56	2,90	3,20
1-1/8	31,57	32,51	57,91	2,90	3,20
1-1/4	34,74	35,68	64,26	3,40	3,70
1-3/8	37,93	38,86	70,61	3,40	3,70
1-1/2	41,10	42,03	76,96	3,40	3,70

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

SPRING WASHER



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 127

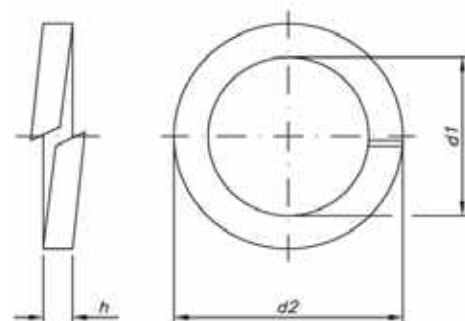


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter) Min	d2 (external diameter) Max	h (thickness)
M 2	2,10	4,40	0,40
M2,5	2,60	5,10	0,50
M 3	3,10	6,20	0,70
M 4	4,10	7,60	0,80
M 5	5,10	9,20	1,10
M 6	6,10	11,80	1,50
M 8	8,10	14,80	1,90
M 10	10,20	18,10	2,05
M 12	12,20	21,10	2,35
M 14	14,20	24,10	2,85
M 16	16,20	27,40	3,30
M 18	18,20	29,40	3,30
M 20	20,20	33,60	3,80
M 22	22,50	35,90	3,80
M 24	24,50	40,00	4,80
M 27	27,50	43,00	4,80
M 30	30,50	48,20	5,80
M 33	33,50	55,20	5,80
M 36	36,50	58,20	5,80

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

SPRING WASHER



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 127 (B)

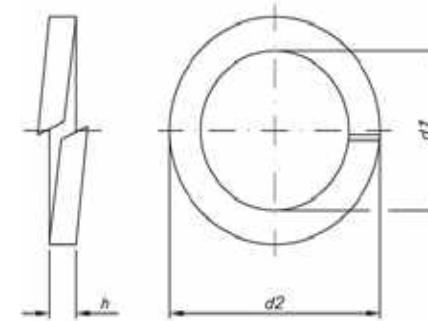


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter) Min	d2 (external diameter) Max	h (thickness)
#4	2,89	5,30	0,63
#5-1/8	3,22	5,99	0,78
#6	3,58	6,35	0,78
#8-5/32	4,24	7,44	1,01
#10-3/16	4,90	8,48	1,19
1/4	6,45	12,37	1,57
5/16	8,05	14,80	1,98
3/8	9,65	17,27	2,38
7/16	11,25	19,71	2,76
1/2	12,85	22,07	3,17
9/16	14,47	24,51	3,58
5/8	16,12	27,25	3,96
3/4	19,30	32,13	4,77
7/8	22,52	37,05	5,56
1	25,83	42,06	6,35
1-1/8	29,05	46,91	7,13
1-1/4	32,28	51,71	7,92
1-3/8	35,50	56,36	8,73
1-1/2	38,73	61,44	9,52

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

INTERNAL TOOTH WASHER



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 6798 J

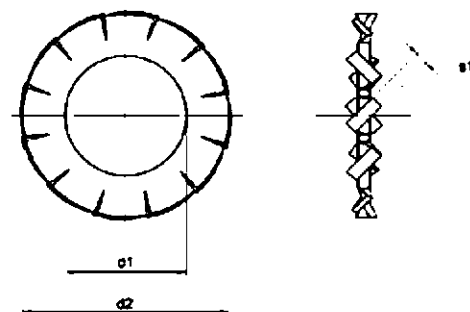


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter) Min	d2 (external diameter) Max	h (thickness)
M3	3,20	6,00	0,40
M4	4,30	8,00	0,50
M5	5,30	10,00	0,60
M6	6,40	11,00	0,70
M8	8,40	15,00	0,80
M10	10,50	18,00	0,90
M12	13,00	20,50	1,00
M16	17,00	26,00	1,20
M20	21,00	33,00	1,40

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

EXTERNAL TOOTH WASHER



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 6798 A

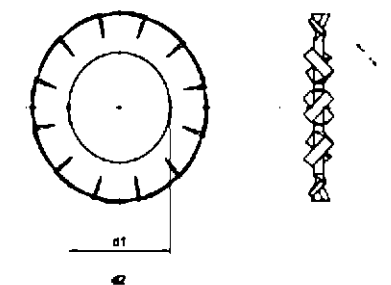


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter) Min	d2 (external diameter) Max	h (thickness)
M3	3,20	6,00	0,40
M4	4,30	8,00	0,50
M5	5,30	10,00	0,60
M6	6,40	11,00	0,70
M8	8,40	15,00	0,80
M10	10,50	18,00	0,90
M12	13,00	20,50	1,00
M16	17,00	26,00	1,20
M20	21,00	33,00	1,40

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

DOUBLE STACKED SELF-LOCKING WASHER



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 25201

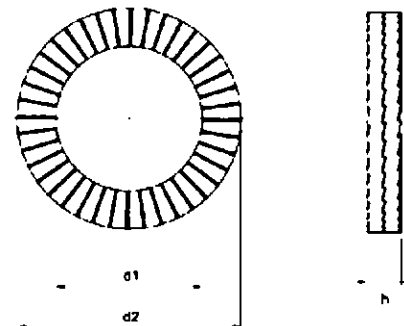


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter) Min	d2 (external diameter) Max	h (thickness)
M3	3.50	7.20	2.05
M3.5	4.00	7.80	2.05
M4	4.50	7.80	2.05
M5	5.50	9.20	2.05
M6	6.60	11.00	2.05
M8	8.80	13.70	2.75
M10	10.90	16.80	2.75
M11	11.60	18.70	2.75
M12	13.20	19.70	2.75
M14	15.40	23.20	3.65
M16	17.20	25.60	3.65
M18	19.70	29.20	3.65
M20	21.60	30.90	3.65
M22	23.60	34.70	3.65
M24	25.50	39.20	3.65
M27	28.60	42.30	6.05
M30	31.60	47.30	6.05
M33	34.60	48.80	6.05
M36	37.60	55.30	6.05

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

DOUBLE STACKED SELF-LOCKING WASHER



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 25201

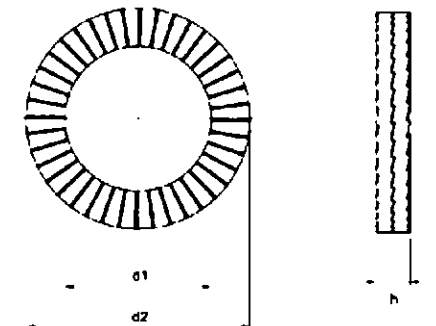


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter) Min	d2 (external diameter) Max	h (thickness)
#5	3.50	7.20	2.05
#6	4.00	7.80	2.05
#8	4.50	7.80	2.05
#10	5.50	9.20	2.05
1/4	7.30	11.70	2.75
5/16	8.80	13.70	2.75
3/8	10.50	16.80	2.75
7/16	11.60	18.70	2.75
1/2	13.70	19.70	2.75
9/16	15.40	23.20	3.65
5/8	17.20	25.60	3.65
3/4	20.20	30.90	3.65
7/8	23.60	34.70	3.65
1	28.10	39.30	3.65
1-1/8	31.60	47.30	6.05
1-1/4	34.60	48.80	6.05
1-3/8	37.60	55.30	6.05
1-1/2	40.60	58.80	6.05
1-3/4	46.70	70.00	7.75

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

LARGE FLAT WASHER

LARGE FLAT WASHER



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 9021

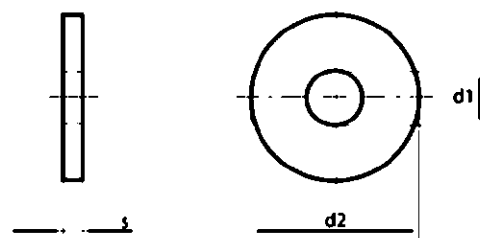


TABLE OF DIMENSIONS (MM)

Nominal Diameter	d1 (inner diameter) Min	d2 (external diameter) Max	s (thickness)
M3	3,20	9	0,8
M4	4.30	12	1
M5	5.30	15	12
M6	6.40	18	1,6
M7	7.40	22	2
M8	8.40	24	2
M10	10.50	30	2.5
M12	13	37	3
M14	15	44	3
M16	17	50	3
M18	20	56	4
M20	22	60	4
M24	26	72	5

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

SELF-LOCKING WASHER

DOUBLE-ENDED THREADED ROD



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 938

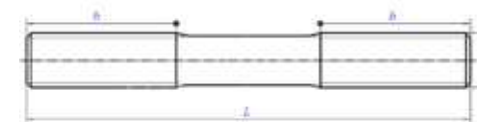


TABLE OF DIMENSIONS (MM)

d (Thread Size)	b (Thread pitch)		L (Nominal length)
	max	min	
M10	MA-1,50	/	40-500
M12	MA-1,75	/	40-500
M14	MA-2,00	/	40-500
M16	MA-2,00	/	40-500
M20	MA-2,50	/	40-500
M24	MA-3,00	/	40-500
M27	MA-3,00	/	40-500
M30	MA-3,50	/	40-500
M33	MA-3,00	/	40-500
M36	/	MA-3,00	40-500
M39	/	MA-3,00	40-500
M42	/	MA-3,00	40-500
M45	/	MA-3,00	40-500
M48	/	MA-3,00	40-500
M52	/	MA-4,00	40-500
M56	/	MA-4,00	40-500

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

SELF-LOCKING WASHER

THREADED BAR



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 975/976

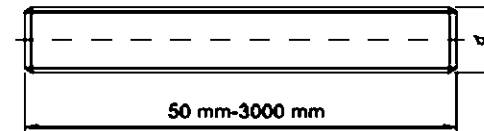


TABLE OF DIMENSIONS (MM)

diameter	thread/FPP	diameter	thread/FPP
1/8	BSW - 40	M3	MA-0,50
5/32	BSW - 32	M4	MA-0,70
3/16	BSW - 24	M5	MA-0,80
1/4	UNC - 20	M6	MA-1,00
5/16	UNC - 18	M8	MA-1,25
3/8	UNC - 16	M10	MA-1,50
7/16	UNC - 14	M12	MA-1,75
1/2	UNC - 13	M14	MA-2,00
1/2	BSW - 12	M16	MA-2,00
9/16	UNC - 12	M18	MA-2,50
5/8	UNC - 11	M20	MA-2,50
3/4	UNC - 10	M22	MA-2,50
7/8	UNC - 9	M24	MA-3,00
1	UNC - 8	M27	MA-3,00
1-1/8	UNC - 7	M30	MA-3,50
1-1/4	UNC - 7	M33	MA-3,50
1-3/8	UNC -6	M36	MA-4,00
1-1/2	UNC -6	M39	MA-4,00
1-3/4	UNC - 5	M42	MA-4,50
2	UNC - 4-1/2	M45	MA-4,50
		M48	MA-5,00

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

CROSS RECESSED FLAT HEAD SCREW

CROSS RECESSED FLAT HEAD SCREW



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 7504 (O)

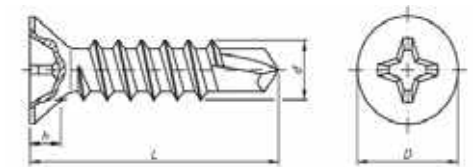


TABLE OF DIMENSIONS (MM)

d (diameter)	3,5	3,9	4,2	4,8
step	1,27	1,34	1,41	1,58
d (head diameter) max	6,80	7,50	8,10	9,50
h (head height) max	2,10	2,30	2,50	3,00
chave phs n°	2	2	2	2

WASHER DRILLING AND TAILING

ROUND HEAD WASHER SELF-DRILLING SCREW



MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
MARKET

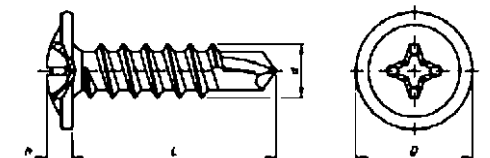


TABLE OF DIMENSIONS (MM)

d (diameter)	4,2
step	1,41
d (head diameter) max	11,30
h (head height) max	2,20
chave phs n°	2

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

FLANGE HEAD DRILLING SCREW



FLANGE HEAD DRILLING SCREW WITH SEALING WASHER

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 7504 (K)

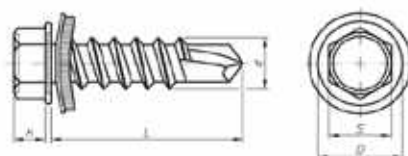


TABLE OF DIMENSIONS (MM)

d (diameter)	4,8 (10)	5,5 (12)	6,3 (14)
step	1,59	1,81	1,81
h (head height) max	3,05	3,93	4,82
s (key) nom	pol	5/16	3/8
	mm	7,93	9,52
D (ø of thin washer) max	10,52	11,00	13,20

PAN HEAD SELF-TAPPING SCREW



CROSS RECESSED SELF-TAPPING PAN HEAD SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 7981

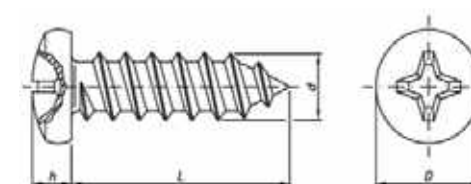


TABLE OF DIMENSIONS (MM)

d (diameter)	2,2	2,9	3,5	3,9	4,2	4,8	5,5	6,3
step	0,79	1,06	1,27	1,34	1,41	1,58	1,81	1,81
d (head diameter) max	4,20	5,60	6,90	7,50	8,20	9,50	10,80	12,50
h (head height) max	1,80	2,20	2,60	2,80	3,05	3,55	3,95	4,55
chave phs n°	1	1	2	2	2	2	3	3

PAN HEAD SELF-DRILLING SCREW



PAN HEAD SELF-DRILLING SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 7504 M

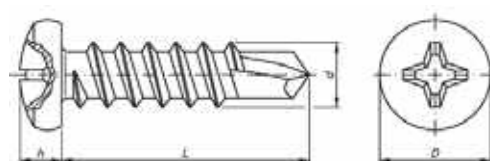


TABLE OF DIMENSIONS (MM)

d (diameter)	3,5	3,9	4,2	4,8
step	1,27	1,34	1,41	1,58
d (head diameter) max	6,90	7,50	8,20	9,50
h (head height) max	2,60	2,80	3,55	5,50
chave phs n°	2	2	2	2

SEMI-FLAT HEAD TAPPING SCREW



SEMI-FLAT HEAD CROSS RECESSED TAPPING SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 7983

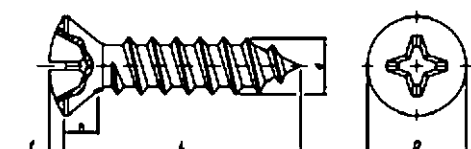


TABLE OF DIMENSIONS (MM)

d (diameter)	2,2	2,9	3,5	3,9	4,2	4,8	5,5	6,3
step	0,79	1,06	1,27	1,34	1,41	1,58	1,81	1,81
D (head diameter) max	4,30	5,50	6,80	7,50	8,10	9,50	10,80	12,40
h (head height) max	1,30	1,70	2,10	2,30	2,50	3,00	3,40	3,80
f (beam height) max	0,70	0,90	1,20	1,30	1,40	1,50	1,70	2,00
chave phs n°	1	1	2	2	2	2	3	3

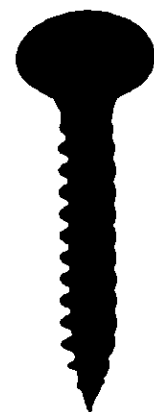
APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

BLACK GRAY DRYWALL SCREW



PHOSPHATE BLACK GRAY DRYWALL SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 18182

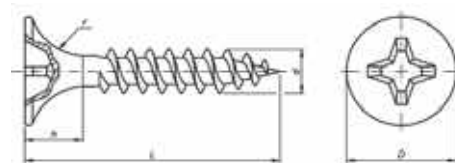


TABLE OF DIMENSIONS (MM)

d (diameter)	3,5	4,2
step	1.50 (2 tickets)	1.80 (2 tickets)
D(head diameter) max	8,50	9,00
h(head height) ref	5,40	5,40
r (radius under head) ref	4,50	5,00
chave phs n°	2	2

WOOD SCREW



WOOD SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 571

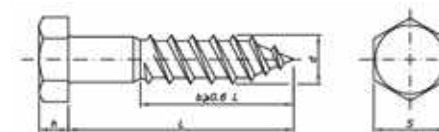


TABLE OF DIMENSIONS (MM)

d (diameter)	M5	M6	M8	M10
step	2,20	2,60	3,60	4,50
s (key) max	8	10	13	17
h(head height) ref	3,50	4,00	5,50	7,00

FLAT HEAD SELF-TAPPING SCREW



FLAT HEAD SELF-TAPPING SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 7982

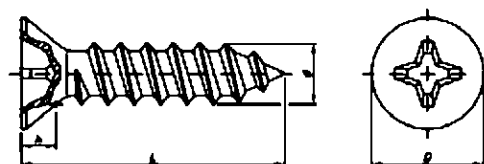


TABLE OF DIMENSIONS (MM)

d (diameter)	2,2	2,9	3,5	3,9	4,2	4,8	5,5	6,3
step	0,79	1,06	1,27	1,34	1,41	1,58	1,81	1,81
D (head diameter) max	4,30	5,50	6,80	7,50	8,10	9,50	10,80	12,40
h (head height) ref	1,30	1,70	2,10	2,30	2,50	3,00	3,40	3,80
chave phs n°	1	1	2	2	2	2	3	3

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

ZINC PLATED WOOD CONFIRMAT SCREW



ZINC PLATED WOOD CONFIRMAT SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
MARKET

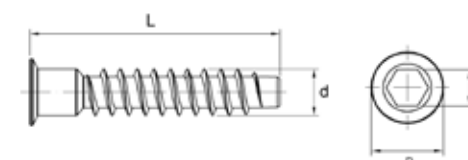


TABLE OF DIMENSIONS (MM)

d (diameter)	M5	M6	M6.3	M7
step	2,20	2,60	3,60	4,50
s (key) max	3,05	4,05	4,05	4,05
D (head diameter) max	7,50	9,50	9,50	10,00

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



PHOSPHATE BLACK GRAY DRYWALL SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
DIN 6914

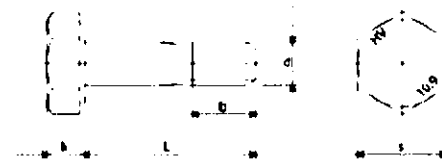
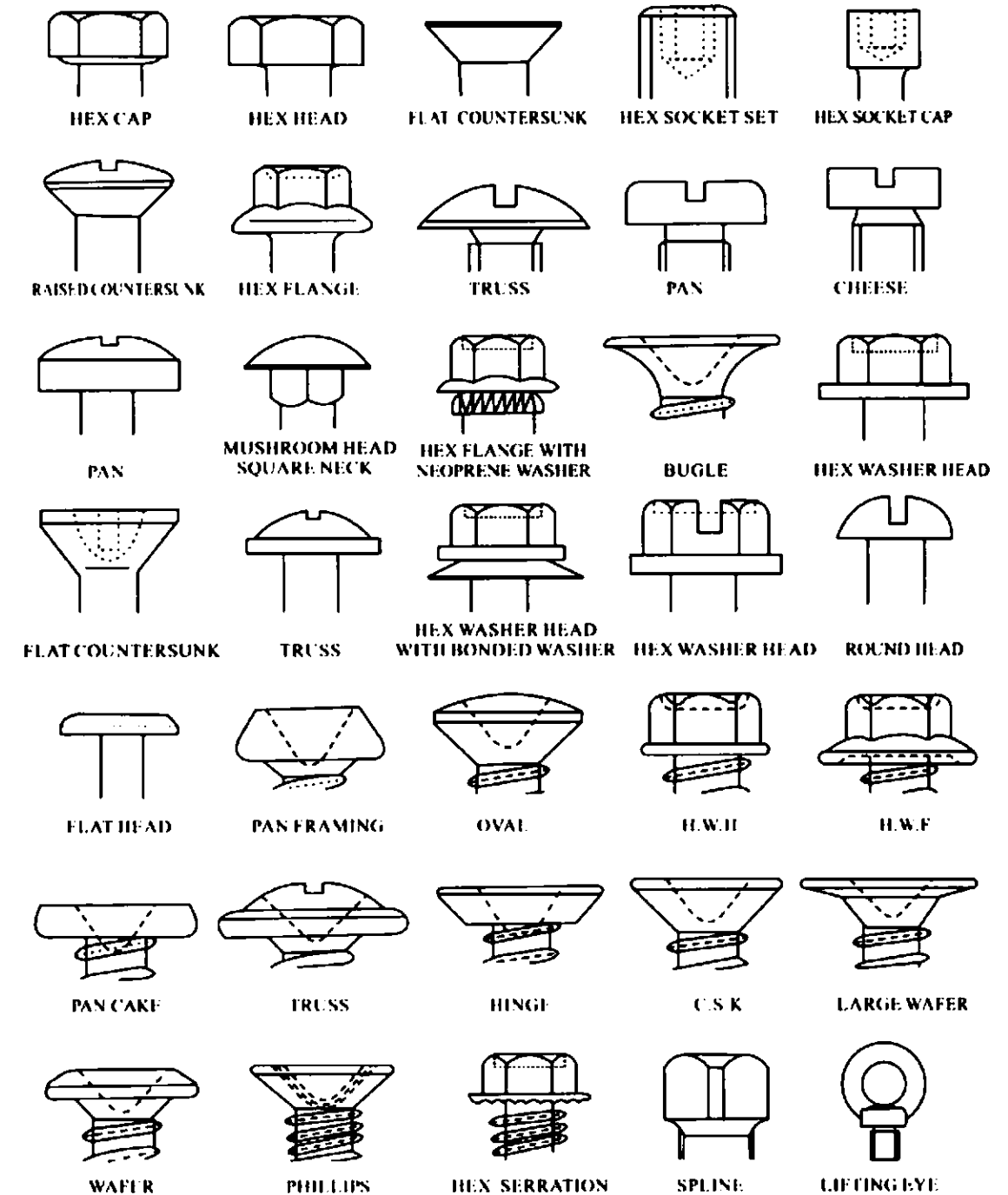


TABLE OF DIMENSIONS (MM)

d (diameter)	M12	M16	M20	M22	M24	M27	M30	M36
p	1,75	2	2,5	2,5	3	3	3,5	4
b1	21	26	31	32	34	37	40	48
b2	23	28	33	34	37	39	42	50
k	8	10	13	14	15	17	19	23
s	22	27	32	36	41	46	50	60



FLAT HEAD SELF-TAPPING SCREW

MATERIAL:
CARBON STEEL/STAINLESS STEEL
FINISHING:
PLAIN/ZINC/DACROMET/BLACK/HDG
STANDARD:
ASTM A193

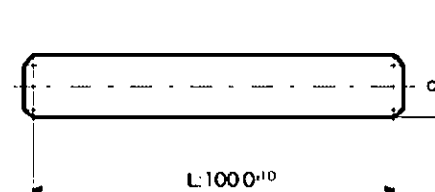


TABLE OF DIMENSIONS (MM)

d /inch	1/2	5/8	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
threads per inch	13	11	10	9	8	8	8	8	8	8	8	8	8

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.

APPLICATION:

USED IN THE CONSTRUCTION OF INDUSTRIAL MACHINERY AND EQUIPMENT, METAL STRUCTURES, VEHICLES, STEEL FURNITURE, AMONG OTHER APPLICATIONS VARIOUS APPLICATIONS.



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