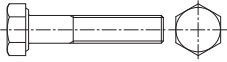
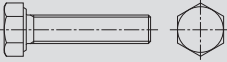
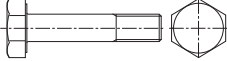
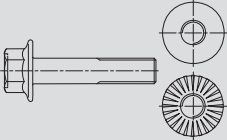
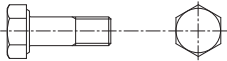
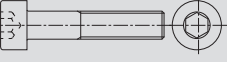
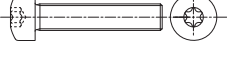
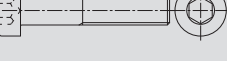
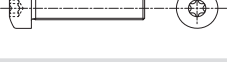
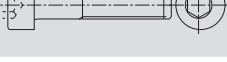
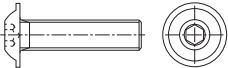
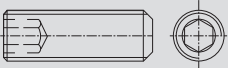
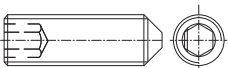
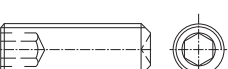
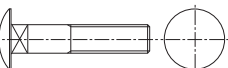
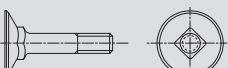
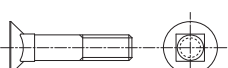
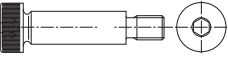
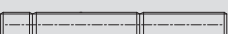
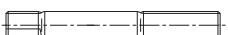
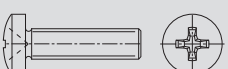
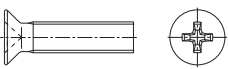
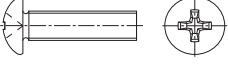
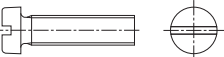
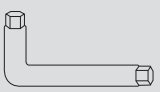
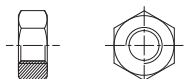
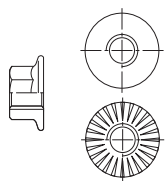


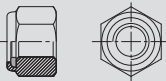
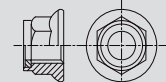
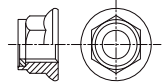
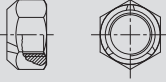
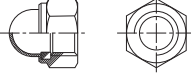
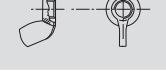
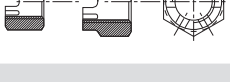
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	PARTIAL THREAD HEXAGON HEAD SCREWS	8765	5738	960	6
	FULL THREAD HEXAGON HEAD SCREWS	8676	5740	961	8
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	HEXAGON HEAD SCREWS FOR BLADES	-	-	-	14
HEXAGON SOCKET SCREWS WITH METRIC THREAD					15
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	HEXAGON SOCKET HEAD CAP SCREWS	12474	5932	912	18
	HEXALOBULAR PAN HEAD SCREWS	14583	-	-	19
	HEXAGON SOCKET THIN HEAD CAP SCREWS	-	9327	7984	20
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	CROSS RECESSED COUNTERSUNK RAISED HEAD SCREWS	7047	7689	966	48
	CROSS RECESSED HALF ROUND HEAD SCREWS	-	-	-	49

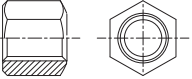
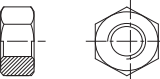
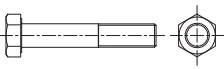
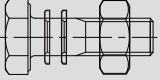
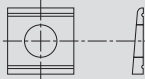
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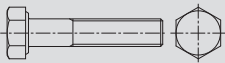
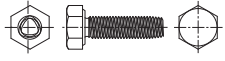
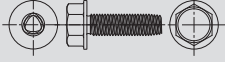
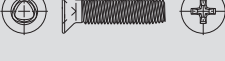
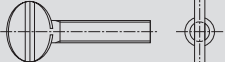
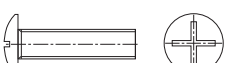
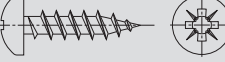
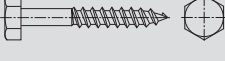
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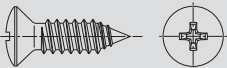
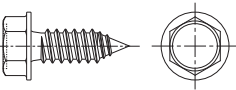
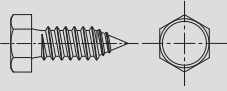
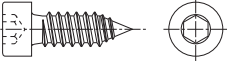
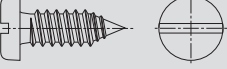
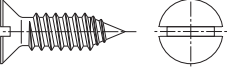
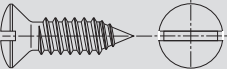
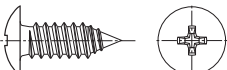
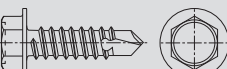
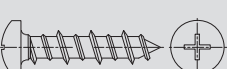
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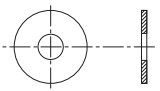
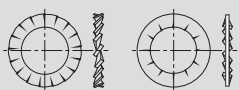
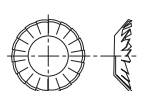
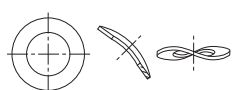
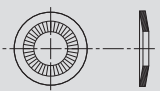
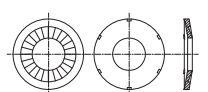
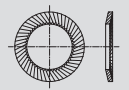
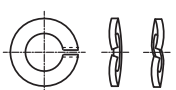
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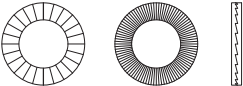
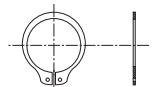
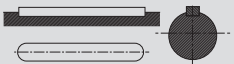
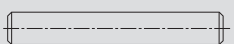
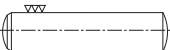
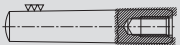
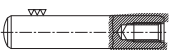
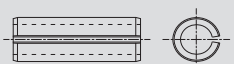
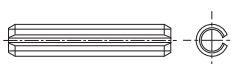
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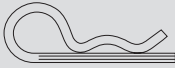
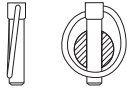
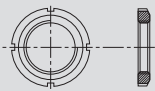
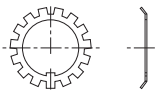
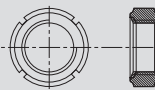
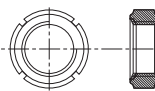
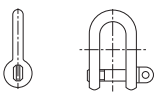
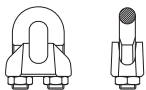
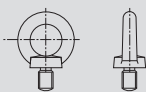
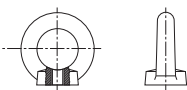
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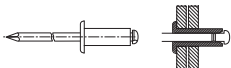
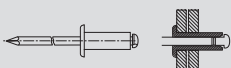
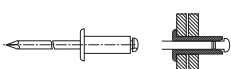
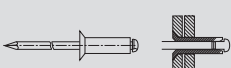
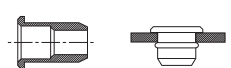
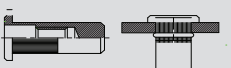
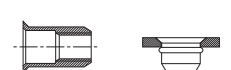
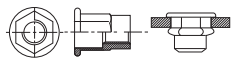
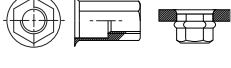
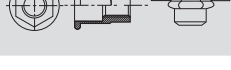
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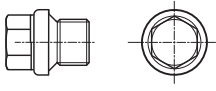
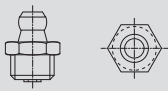
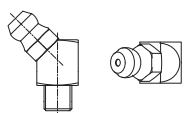
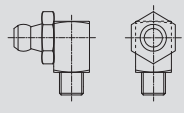
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CONE POINT HEXAGON SOCKET SET SCREWS	4027	5927	914	30
CUP POINT HEXAGON SOCKET SET SCREWS	4029	5929	916	34
HEXAGON SOCKET HEAD CAP SCREWS	4762	5931	912	16
HEXAGON SOCKET HEAD CAP SCREWS	12474	5932	912	18
HEXAGON SOCKET COUNTERSUNK HEAD SCREWS	10642	5933	7991	24
SLOTTED PAN HEAD SCREWS	1207	6107	84	51
COUNTERSUNK SLOTTED FLAT HEAD SCREWS	2009	6109	963	52
COUNTERSUNK SLOTTED RAISED HEAD SCREWS	2010	6110	964	53
TEMPERED DOWEL PINS	8734A	6364A	6325	155
TEMPERED DOWEL PINS WITH INTERNAL THREAD	8735	6364B	7979D	157
METRIC THREADED RODS	-	6547	975	42
FLAT WASHERS	7089	6592	125 A	130
CHANNEL CLAMPING PLATES FOR UPN SECTIONS	-	6598	434	94
PARALLEL KEYS	-	6604/A	6885A	152
HEXAGONAL KEYS FOR SOCKET HEX SCREWS	2936	6753	911	54
HEAVY DUTY SPRING PINS	8752	6873	1481	160
SPRING-TYPE STRAIGHT PINS, SLOTTED, LIGHT DUTY	13337	6874	7346	158
SPIRAL SPRING PINS	8750	6875	7343	161
SOCKET HEAD CAP TAPPING SCREWS	-	6947	-	117
HEXAGON HEAD TAPPING SCREWS	1479	6949	7976	116
HEXAGON WASHER HEAD TAPPING SCREWS	-	6950	6928	115
SLOTTED PAN HEAD TAPPING SCREWS	1481	6951	7971	118
SLOTTED COUNTERSUNK HEAD TAPPING SCREWS	1482	6952	7972	119
SLOTTED COUNTERSUNK RAISED HEAD TAPPING SCREWS	1483	6953	7973	120

UNI STANDARDS INDEX

Description	ISO	UNI	DIN	pag.
WIDE FLAT WASHERS	7093	6953	9021	131
PHILLIPS PAN HEAD SELF TAPPING SCREWS	7049	6954	7981	112
PHILLIPS COUNTERSUNK FLAT HEAD SELF TAPPING SCREWS	7050	6955	7982	113
PHILLIPS COUNTERSUNK RAISED HEAD SELF TAPPING SCREWS	7051	6956	7983	114
TAPER PINS	2339	7283	1	153
TAPER PINS WITH INTERNAL THREAD	8736A	7284A	7978A	156
RADIAL CIRCLIPS FOR SHAFTS	-	7434	6799	151
RETAINING RINGS FOR SHAFTS (EXTERNALS)	-	7435- 7436	471	149
RETAINING RINGS FOR HOLES (INTERNALS)	-	7437- 7438	472	150
NYLON INSERT HIGH HEX LOCK NUTS	7040- 10512	7473	982	64
NYLON INSERT THIN HEX LOCK NUTS	10511	7474	985	65
GREASE NIPPLES	-	7663	71412	199
CROSS RECESSED PAN HEAD SCREWS	7045	7687	7985	46
CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS	7046	7688	965	47
CROSS RECESSED COUNTERSUNK RAISED HEAD SCREWS	7047	7689	966	48
HEX HEAD TRILOBULAR SCREWS	-	8110	7500 D	97
FLANGED HEX HEAD TRILOBULAR SCREWS	-	8111	-	98
CROSS RECESSED PAN HEAD TRILOBULAR SCREWS	-	8112	7500 CE	99
CROSS RECESSED COUNTERSUNK FLAT HEAD TRILOBULAR	-	8113	7500 M	100
FLANGED HEX HEAD DRILLING SCREWS	15480	8117	7504 K	122
PAN HEAD DRILLING SCREWS	15481	8118	7504 N	125
COUNTERSUNK HEAD DRILLING SCREWS	15482	8119	7504 P	124
SQUARE SECTION HELICAL SPRING WASHERS	-	8839	128	141
WAVE SPRING WASHERS TYPE A	-	8840 A	137 A	136
WAVE SPRING WASHERS TYPE B	-	8840 B	137 b	137

UNI STANDARDS INDEX

Description	ISO	UNI	DIN	pag.
SERRATED SPRING WASHERS	-	8842 A-J-AJ	6798 A-J-AJ	134
CONICAL SERRATED SPRING WASHERS	-	8842 V	6798 V	135
STEEL / STEEL BLIND RIVETS	-	9200A	7337A	178
ALUMINIUM / STEEL BLIND RIVETS	-	9200A	7337A	179
STAINLESS STEEL BLIND RIVETS	-	9200A	7337A	180
COPPER BLIND RIVETS	-	9200A	7337A	181
ALUMINIUM / STEEL COUNTERSUNK BLIND RIVETS	-	9200B	7337B	182
HEXAGON SOCKET THIN HEAD CAP SCREWS	-	9327	7984	20
PHILLIPS PAN HEAD HI/LO SELF TAPPING SCREWS FOR PLASTIC	-	9707	-	127

DIN STANDARDS INDEX

Description	ISO	UNI	DIN	pag.
TAPER PINS	2339	7283	1	153
DOWEL PINS	2338B	1707	7	154
SLOTTED PAN HEAD SCREWS	1207	6107	84	51
SPLIT PINS	1234	1336	94	162
FLAT WASHERS	7089	6592	125 A	130
HELICAL SPRING WASHERS (GROWER)	-	1751	127 B	132
SQUARE SECTION HELICAL SPRING WASHERS	-	8839	128	141
WAVE SPRING WASHERS TYPE A	-	8840 A	137 A	136
WAVE SPRING WASHERS TYPE B	-	8840 B	137 b	137
WING NUTS FORM A	-	5448	315	72
WING SCREWS	-	5449	316	101
CHANNEL CLAMPING PLATES FOR UPN SECTIONS	-	6598	434	94
THIN HEX NUTS	4035- 8675	-	439	59
RETAINING RINGS FOR SHAFTS (EXTERNALS)	-	7435- 7436	471	149
RETAINING RINGS FOR HOLES (INTERNALS)	-	7437- 7438	472	150
CHAMFERED SQUARE NUTS	-	5597	557	77
THIN SQUARE NUTS	-	5596	562	76
HEX HEAD WOOD SCREWS	-	704	571	110
LIFTING EYE BOLTS	-	2947	580	173
LIFTING EYE NUTS	-	2948	582	174
CARRIAGE BOLTS (MUSHROOM HEAD SQUARE NECK SCREWS)	8677	5731	603	38
COUNTERSUNK BOLTS 120° WITH SQUARE NECK SCREWS	-	-	605	40
COUNTERSUNK BOLTS 90° WITH SQUARE NECK SCREWS	-	-	608	41
CAST IRON WIRE ROPE CLIPS	13411-5	-	741	172
INTERNAL DRIVE PIPE PLUG WITH CONICAL THREAD HEX SOCKET	-	-	906	196

DIN STANDARDS INDEX

Description	ISO	UNI	DIN	pag.
INTERNAL DRIVE PIPE PLUG WITH CONICAL COLLAR CYLINDRICAL HEX SOCKET	-	-	908	197
HEX HEAD SCREW PLUG WITH COLLAR CYLINDRICAL THREAD	-	-	910	198
HEXAGONAL KEYS FOR SOCKET HEX SCREWS	2936	6753	911	54
HEXAGON SOCKET HEAD CAP SCREWS	4762	5931	912	16
HEXAGON SOCKET HEAD CAP SCREWS	12474	5932	912	18
FLAT POINT HEXAGON SOCKET SET SCREWS	4026	5923-5924	913	28
CONE POINT HEXAGON SOCKET SET SCREWS	4027	5927	914	30
HEXAGON SOCKET SET SCREWS WITH DOG POINT	4028	5925	915	32
CUP POINT HEXAGON SOCKET SET SCREWS	4029	5929	916	34
HEXAGON CAP NUTS LOW TYPE	-	-	917	71
SQUARE WELDING NUTS	-	-	928	80
WELDING HEX NUTS	-	-	929	78
PARTIAL THREAD HEXAGON HEAD SCREWS	4014	5737	931	2
FULL THREAD HEXAGON HEAD SCREWS	4017	5739	933	4
HEX NUTS	-	5588	934	56
STANDARD CASTLE HEX NUTS	7035	5593	935	73
THIN HEX NUTS	-	5589	936	60
THIN CASTLE HEX NUTS	-	5594	937	74
STUDS WITH SHORT END	-	5909	938	44
MEDIUM TAP END STUDS	-	5911	939	45
PARTIAL THREAD HEXAGON HEAD SCREWS	8765	5738	960	6
FULL THREAD HEXAGON HEAD SCREWS	8676	5740	961	8
COUNTERSUNK SLOTTED FLAT HEAD SCREWS	2009	6109	963	52
COUNTERSUNK SLOTTED RAISED HEAD SCREWS	2010	6110	964	53
CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS	7046	7688	965	47
CROSS RECESSED COUNTERSUNK RAISED HEAD SCREWS	7047	7689	966	48

DIN STANDARDS INDEX

Description	ISO	UNI	DIN	pag.
METRIC THREADED RODS	-	6547	975	42
HEXAGON FULL METAL LOCK NUTS CONELOCK	7042-10513	-	980V	68
KM SLOTTED ROUND NUTS	-	-	981	165
NYLON INSERT HIGH HEX LOCK NUTS	7040-10512	7473	982	64
NYLON INSERT THIN HEX LOCK NUTS	10511	7474	985	65
HEXAGON DOMED CUP LOCK NUTS	-	-	986	69
TURNBUCKLES EYE-EYE*	-	-	1480	175
HEAVY DUTY SPRING PINS	8752	6873	1481	160
HEX DOMED CAP NUTS	-	5721	1587	70
DISC SPRINGS	-	-	2093	142
TOOTH WASHERS TYPE MB	-	-	5406	166
TEMPERED DOWEL PINS	8734A	6364A	6325	155
EXTENSION NUTS	-	5535	6334	75
HIGH HEX NUTS 1,5 X D	-	-	6330 B	85
CONICAL SPRING WASHERS	-	-	6796	146
SERRATED SPRING WASHERS	-	8842 A-J-AJ	6798 A-J-AJ	134
CONICAL SERRATED SPRING WASHERS	-	8842 V	6798 V	135
RADIAL CIRCLIPS FOR SHAFTS	-	7434	6799	151
PARALLEL KEYS	-	6604/A	6885A	152
THIMBLES	-	-	6899 A	171
HEXAGON SOCKET THIN HEAD CAP SCREWS WITH PILOT RECESS	-	-	6912	22
LARGE HEX HEAD SCREWS FOR STEEL STRUCTURES	-	5712	6914	10
LARGE HEX NUTS FOR STEEL STRUCTURES	-	5713	6915	88
STRUCTURAL PLAIN WASHERS	7416	5714	6916	89
HEXAGON FLANGE SCREWS WITH OR WITHOUT SERRATION	UNI EN ISO 1665	-	6921	12

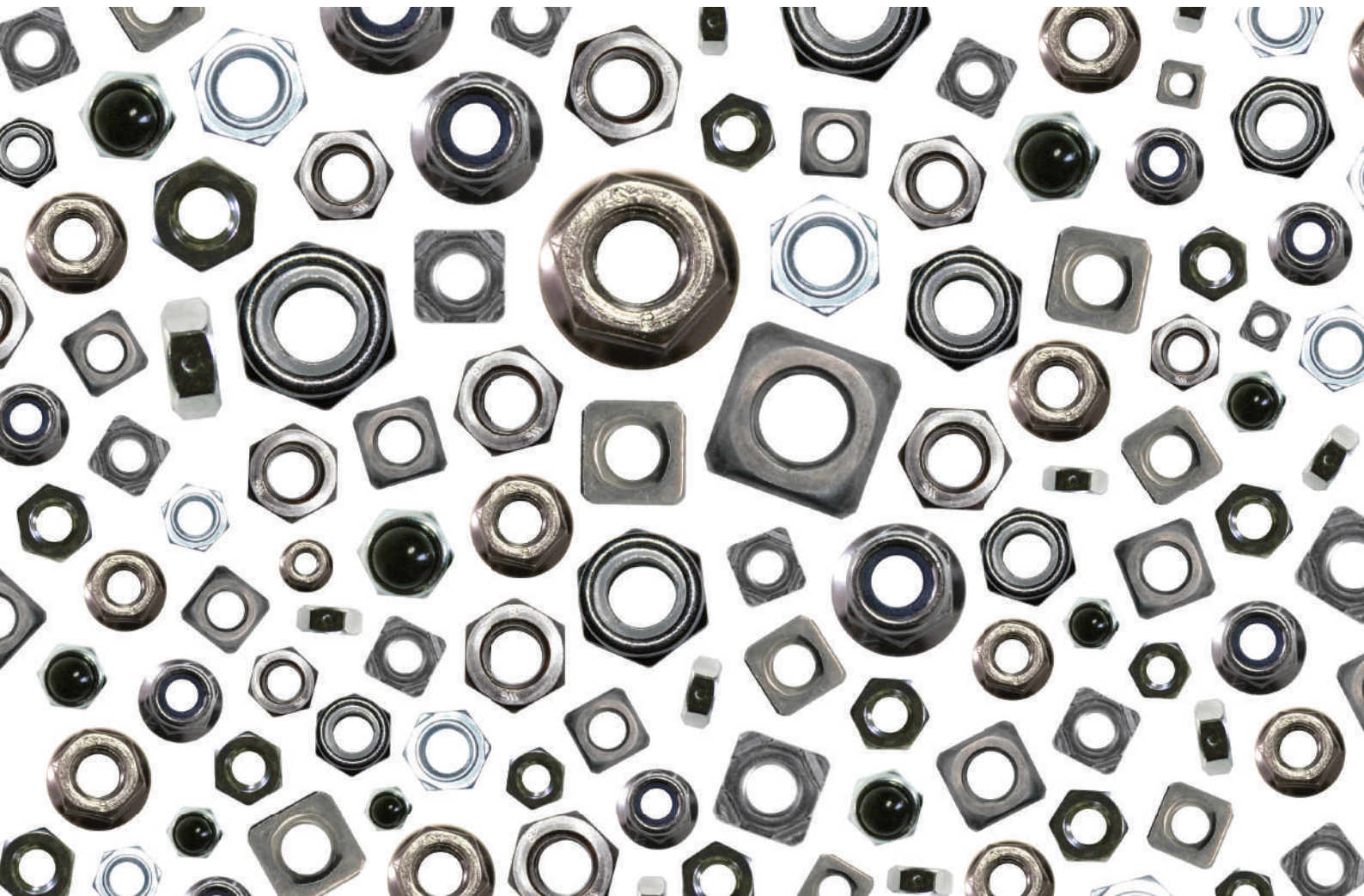
DIN STANDARDS INDEX

Description	ISO	UNI	DIN	pag.
HEXAGONAL FLANGED NUTS WITH OR WITHOUT SERRATION	4161	-	6923	63
NYLON INSERT FLANGED HEX LOCK NUTS	7043	-	6926	66
FULL METAL FLANGED HEX LOCK NUTS	7044	-	6927	67
HEXAGON WASHER HEAD TAPPING SCREWS	-	6950	6928	115
STEEL / STEEL BLIND RIVETS	-	9200A	7337A	178
ALUMINIUM / STEEL BLIND RIVETS	-	9200A	7337A	179
STAINLESS STEEL BLIND RIVETS	-	9200A	7337A	180
COPPER BLIND RIVETS	-	9200A	7337A	181
ALUMINIUM / STEEL COUNTERSUNK BLIND RIVETS	-	9200B	7337B	182
SPIRAL SPRING PINS	8750	6875	7343	161
SPRING-TYPE STRAIGHT PINS, SLOTTED, LIGHT DUTY	13337	6874	7346	158
CROSS RECESSED PAN HEAD TRILOBULAR SCREWS	-	8112	7500 CE	99
HEX HEAD TRILOBULAR SCREWS	-	8110	7500 D	97
CROSS RECESSED COUNTERSUNK FLAT HEAD TRILOBULAR	-	8113	7500 M	100
FLANGED HEX HEAD DRILLING SCREWS	15480	8117	7504 K	122
PAN HEAD DRILLING SCREWS	15481	8118	7504 N	125
COUNTERSUNK HEAD DRILLING SCREWS	15482	8119	7504 P	124
POZI FLAT HEAD CHIPBOARD SCREWS	-	-	7505 A	104
POZI PAN HEAD CHIPBOARD SCREWS	-	-	7505 B	108
POZI OVAL FLAT HEAD CHIPBOARD SCREWS	-	-	7505 C	109
ALUMINIUM / COPPER WASHERS	-	-	7603 A	148
"PAL" EXAGONAL SELF LOCKING COUNTER NUTS	-	-	7967	93
SLOTTED PAN HEAD TAPPING SCREWS	1481	6951	7971	118
SLOTTED COUNTERSUNK HEAD TAPPING SCREWS	1482	6952	7972	119
SLOTTED COUNTERSUNK RAISED HEAD TAPPING SCREWS	1483	6953	7973	120
HEXAGON HEAD TAPPING SCREWS	1479	6949	7976	116
TAPER PINS WITH INTERNAL THREAD	8736A	7284A	7978A	156

DIN STANDARDS INDEX

Description	ISO	UNI	DIN	pag.
TEMPERED DOWEL PINS WITH INTERNAL THREAD	8735	6364B	7979D	157
SQUARE SECTION HELICAL SPRING WASHERS	-	-	7980	133
PHILLIPS PAN HEAD SELF TAPPING SCREWS	7049	6954	7981	112
PHILLIPS COUNTERSUNK FLAT HEAD SELF TAPPING SCREWS	7050	6955	7982	113
PHILLIPS COUNTERSUNK RAISED HEAD SELF TAPPING SCREWS	7051	6956	7983	114
HEXAGON SOCKET THIN HEAD CAP SCREWS	-	9327	7984	20
CROSS RECESSED PAN HEAD SCREWS	7045	7687	7985	46
HEXAGON SOCKET COUNTERSUNK HEAD SCREWS	10642	5933	7991	24
WIDE FLAT WASHERS	7093	6953	9021	131
LINCH PINS	-	-	11023	164
BOLT SECURING WASHERS	-	-	25201	144
GREASE NIPPLES	-	7663	71412	199
SHACKLES	-	-	82101 A	170

NUTS



Our range of nuts covers every fastening requirement, from standard applications to high-performance uses, offering versatility, reliability, and compliance with international standards.

Standard hex nuts in medium, low, and high versions – also available in UNC/UNF or heavy-duty types – meet the most common mechanical and structural needs. Complementing these are specific solutions such as flange nuts, smooth or serrated, ideal for uniform load distribution, and cap nuts that protect exposed threads.

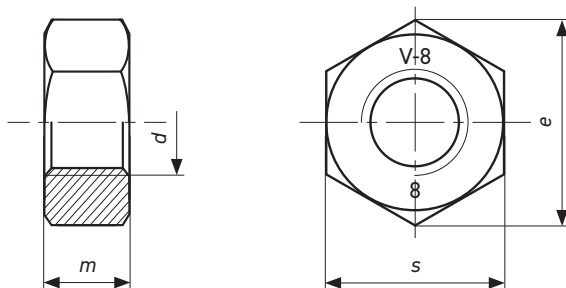
For vibration-prone applications, we offer self-locking nuts with nylon inserts or all-metal versions, also available with flange or nylon cap for superior retention. Symmetrical “Triblock” nuts ensure secure locking even under critical conditions. The range is completed by elastic “PAL” locknuts, wing nuts, slotted nuts, and weld nuts, available in hexagonal or square forms, suitable for permanent assemblies.

Finally, for special requirements, we supply coupling nuts, beveled square nuts, cage nuts, and extra-high nuts (1.5x diameter), for demanding applications where strength and precision are essential.

HEX NUTS

ISO METRIC COARSE AND FINE

ISO
-
UNI
5588
DIN
934



MATERIAL		STEEL			STAINLESS STEEL		BRASS	
MECHANICAL PROPERTIES		ACCORDING TO DIN 267-4 UNI 3740-4			ACCORDING TO ISO 3506-2		ACCORDING TO ISO 3506-1	
CLASS		8/6S	10/8G	12	A2	A4	OT	
TOLLERANCES		ACCORDING TO ISO 4759-1 CAT A-B			ACCORDING TO ISO 4759-1 CAT A-B		ACCORDING TO ISO 4759-1 CAT A	
AVAILABLE TREATMENT		Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request						
d	s	m	e min	coarse thread		fine thread		 Kg
M 2	4	1,2	4,38	0,4				0,14
M 2,5	5	2	5,45	0,45				0,28
M 3	5,5	2,4	6,01	0,5				0,38
M 4	7	3,2	7,66	0,7				0,81
M 5	8	4	8,79	0,8				1,23
M 6	10	5	11,05	1				2,50
M 7	11	5,5	12,12	1				3,12
M 8	13	6,5	14,38	1,25		1		5,2
M 10	17	8	18,90	1,5		1,25/1,5		11,6
M 12	19	10	21,10	1,75		1,5		17,3
M 14	22	11	24,49	2		1,5		25,0
M 16	24	13	26,75	2		1,5		33,3
M 18	27	15	29,56	2,5		1,5		49,4
M 20	30	16	32,95	2,5		1,5		64,4
M 22	32	18	35,03	2,5		1,5		79
M 24	36	19	39,55	3		2		110
M 27	41	22	45,20	3		2		165
M 30	46	24	50,85	3,5		2		223
M 33	50	26	55,37	3,5		2		288
M 36	55	29	60,79	4		3		393
M 39	60	31	66,44	4		3		502
M 42	65	34	72,09	4,5		3		652
M 45	70	36	76,95	4,5		3		800
M 48	75	38	82,60	5		3		977
M 52	80	42	88,25	5		3		1220
M 56	85	45	93,56	5,5		4		1420
M 60	90	48	99,21	5,5		4		1690
M 64	95	51	104,86	6				1980
M 68	100	54	110,51	6				2300
M 72	105	58	116,16	6				2670
M 76	110	61	121,81	6				3040
M 80	115	64	127,46	6				3440

Weight for 1000 pcs

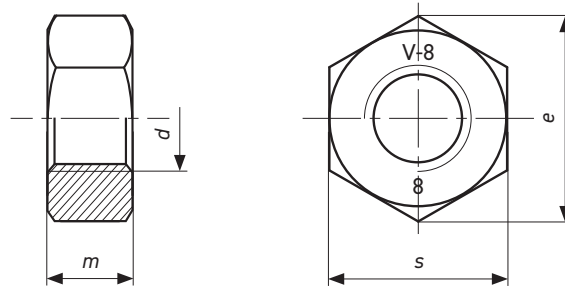
*Tolerances are grade A until diameter 16, grade B over M16

For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013. For the weights of the brass products multiply the values by 1,083. The weights indicated are approximate. **Other sizes available on request.**

ISO HEX NUTS

ISO METRIC COARSE THREAD

ISO 4032 UNI - DIN -



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO ISO 20898-2

ACCORDING TO ISO 3506-2

CLASS

8

12

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A - B*

ACCORDING TO ISO 4759-1 CAT A-B

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

d	s	m	e min	thread	 Kg
M 4	7	2,9 - 3,2	7,66	0,7	0,81
M 5	8	4,4 - 4,7	8,79	0,8	1,23
M 6	10	4,9 - 5,2	11,05	1	2,50
M 8	13	6,4 - 6,8	14,38	1,25	5,2
M 10	16	8,04 - 8,4	17,77	1,5	11,6
M 12	18	10,37 - 10,8	20,03	1,75	17,3
M 14	21	12,1 - 12,8	23,36	2	25
M 16	24	14,1 - 14,8	26,75	2	33,3
M 18	27	15,1 - 15,8	29,56	2,5	49,4
M 20	30	16,9 - 18	32,95	2,5	64,4
M 22	34	18,1 - 19,4	37,29	2,5	79
M 24	36	20,2 - 21,5	39,55	3	110
M 27	41	22,5 - 23,8	45,20	3	165
M 30	46	24,3 - 25,6	50,85	3,5	233

 Weight for 1000 pcs

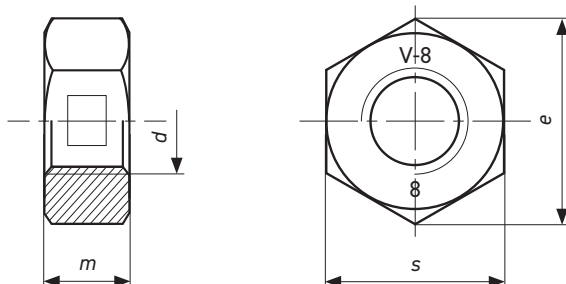
(*) Tolerances are grade A until diameter M16 grade B over M16.
The weights indicated are approximate. **Other sizes available on request.**

TWO WAYS FULL METAL LOCKING NUTS "TRIBLOCK"

ISO METRIC COARSE THREAD

ISO UNI DIN

- - -



MATERIAL

STEEL

MECHANICAL PROPERTIES

ACCORDING TO **DIN 267-4 UNI 3740-4**

CLASS

8/6S

TOLLERANCES

ACCORDING TO **ISO 4759-1 CAT A - B***

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

d	s	m	e min	thread	 Kg
M 5	8	4	8,79	0,8	1,23
M 6	10	5	11,05	1	2,50
M 7	11	5,5	12,12	1	3,12
M 8	13	6,5	14,38	1,25	5,2
M 10	17	8	18,90	1,5	11,6
M 12	19	10	21,10	1,75	17,3
M 14	22	11	24,49	2	25,0
M 16	22	13	26,75	2	33,3

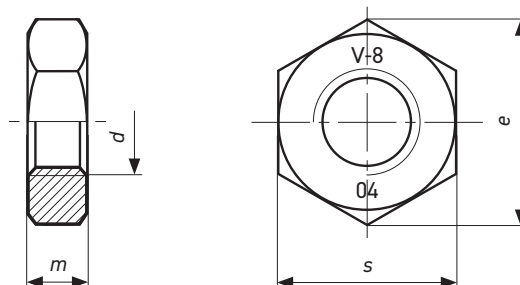
 **Weight for 1000 pcs**

(**) Tolerances are grade A until diameter M16 grade B over M16.
The weights indicated are approximate. **Other sizes available on request.**

THIN HEX NUTS

ISO 4035 METRIC COARSE THREAD - ISO 8675 FINE THREAD

ISO 4035-8675 UNI - DIN 439



MATERIAL	STEEL		STAINLESS STEEL		BRASS
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-24		ACCORDING TO ISO 3506-2		ACCORDING TO ISO 3506-1
CLASS	04*	05	A2	A4	0T
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A-B***		ACCORDING TO ISO 4759-1 CAT A-B***		ACCORDING TO ISO 4759-1 CAT A
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request				

d	s	m	e min	coarse thread		fine thread		Kg
M 3	5,5	2	6,01	0,5				0,25
M 4	7	2,8	7,66	0,7				0,50
M 5	8	3,5	8,79	0,8				0,76
M 6	10	4	11,05	1				1,48
M 7	11	4	12,12	1				2,25
M 8	13	5	14,38	1,25		1		4,0
M 10**	17	6	18,90	1,5		1,25/1,5		8,6
M 12**	19	7	21,10	1,75		1,5		12,1
M 14**	22	8	24,49	2		1,5		18,2
M 16	24	8	26,75	2		1,5		20,1
M 18	27	9	29,56	2,5		1,5		29,6
M 20	30	9	32,95	2,5		1,5		36,3
M 22**	32	10	35,03	2,5		1,5		43,8
M 24	36	10	39,55	3		2		58
M 27	41	12	45,20	3		2		90
M 30	46	12	50,85	3,5		2		110
M 33	50	14	55,37	3,5		2		155
M 36	55	14	60,79	4		3		190
M 39	60	16	66,44	4		3		260
M 42	65	16	72,09	4,5		3		307
M 45	70	18	76,95	4,5		3		400
M 48	75	18	82,60	5				460
M 52	80	20	88,25	5				580
M 56	85	22	93,56	5,5				710

Weight for 1000 pcs

(*) Low height of nuts does not allow the performance of UNI 3740-4 and DIN 267-4 as indicated for 8 class nuts also if steel quality is the same

(**) Different serration key in the ISO version of these measurements

(***)Tolerances are grade A until diameter 16, grade B over M16.

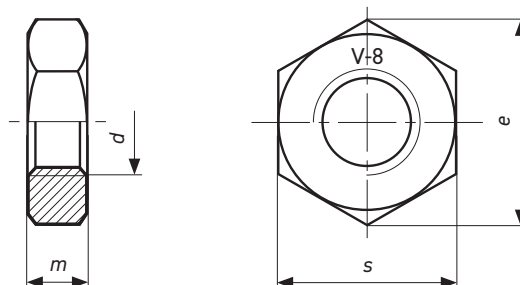
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013. For the weights of the brass products multiply the values by 1,083.

The weights indicated are approximate. **Other sizes available on request.**

THIN HEX NUTS

ISO METRIC COARSE AND FINE THREAD

ISO
-
UNI
5589
DIN
936



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-24 UNI 3740-4

ACCORDING TO ISO 3506-2

CLASS

04*

05

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A - B**

ACCORDING TO ISO 4759-1 CAT A - B**

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to
RoHS - Other coatings on request

d	s	m	e min	coarse thread	fine thread	 Kg
M 8	13	5	14,38	1,25	1	4,1
M 10	17	6	18,90	1,5	1,25	8,5
M 12	19	7	21,10	1,75	1,5	11,9
M 14	22	8	24,49	2	1,5	17,8
M 16	24	8	26,75	2	1,5	19,6
M 18	27	9	29,56	2,5	2	28,3
M 20	30	9	32,95	2,5	2	35
M 22	32	10	35,03	2,5	2	42
M 24	36	10	39,55	3	2	56
M 27	41	12	45,20	3	2	87
M 30	46	12	50,85	3,5	3	110
M 33	50	14	55,37	3,5	3	150
M 36	55	16	60,79	4	3	187
M 39	60	16	66,44	4	3	254
M 42	65	16	72,09	4,5	4	300
M 45	70	18	77,74	4,5	4	390

 Weight for 1000 pcs

(*) Low height of nuts does not allow the performance of UNI 3740-4 and DIN 267-4 as indicated for 8 class nuts also if steel quality is the same.

(**)Tolerances are grade A until diameter 16, grade B over M16

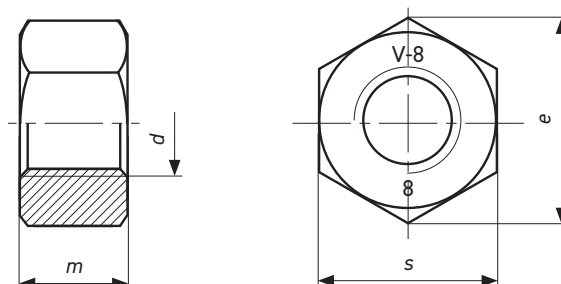
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.

The weights indicated are approximate. **Other sizes available on request.**

HIGH HEX NUTS

ISO METRIC COARSE AND FINE THREAD

ISO UNI DIN
- 5587 -



MATERIAL

STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4

CLASS

8/6S

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A - B**

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

d	s	m	e min	coarse thread	fine thread	 Kg
M 2	4	2	4,38	0,4		0,17
M 2,5	5	2,5	5,45	0,45		0,34
M 3	5,5	3	6,01	0,5		0,47
M 4	7	4	7,66	0,7		1,00
M 5	8	5	8,79	0,8		1,52
M 6	10	6	11,05	1		2,96
M 7	11	7	12,12	1		3,93
M 8	13	8	14,38	1,25		6,5
M 10	17	10	18,90	1,5	1	14,3
M 12	19	12	21,10	1,75	1,25	20,3
M 14	22	14	24,49	2	1,5	31,5
M 16	24	16	26,75	2	1,5	40,5
M 18	27	18	29,56	2,5	1,5	58,2
M 20	30	20	32,95	2,5	1,5	79,1
M 22	32	22	35,03	2,5	1,5	94,9
M 24	36	24	39,55	3	2	137
M 27	41	27	45,20	3	2	200
M 30	46	30	50,85	3,5	2	284
M 33	50	33	55,37	3,5	2	361
M 36	55	36	60,79	4	2	483
M 39	60	39	66,44	4	3	623
M 42	65	42	72,09	4,5	3	795
M 45	70	45	76,95	4,5	3	988
M 48	75	48	82,60	5	3	1220
M 52	80	52	88,25	5	3	1470
M 56	85	56	93,56	5,5	4	1770
M 60	90	60	99,21	5,5	4	2080
M 64	95	51	104,86	6	4	2450
M 68	100	54	110,51	6	4	2850
M 72	105	58	116,16	6	4	3310
M 76	110	61	121,81	6	4	3770
M 80	115	64	127,46	6		4265

 Weight for 1000 pcs

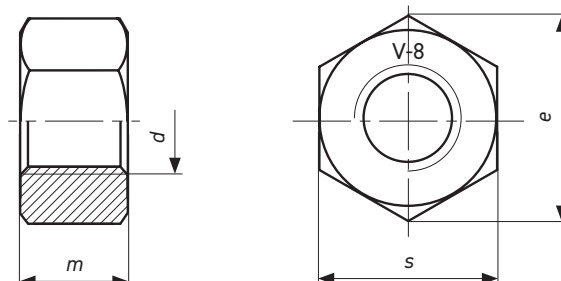
Tolerances are grade A until diameter M16 grade B over M16.

The weights indicated are approximate. **Other sizes available on request.**

HIGH HEX NUTS

ISO 4033 METRIC COARSE THREAD - ISO 8674 METRIC FINE THREAD

ISO 4033-8674 UNI - DIN -



MATERIAL	STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4	ACCORDING TO ISO 3506-2
CLASS	8/6S 10	A2 A4
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A - B*	ACCORDING TO ISO 4759-1 CAT A-B*
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Hot dip galvanized - Other coatings on request	

d	s	m	e min	coarse thread	fine thread	 Kg
M 5	8	5	8,79	0,8		1,55
M 6	10	6	11,05	1		3,02
M 8	13	8	14,38	1,25	1	6,39
M 10	16	10	18,90	1,5	1/1,25	14,2
M 12	18	12	21,10	1,75	1,25/1,5	19,8
M 14	21	14	24,49	2	1,5	30,8
M 16	24	16	26,75	2	1,5	39,6
M 20	30	20	32,95	2,5	1,5	76,2
M 24	36	24	39,55	3	2	133
M 30	46	30	50,85	3,5	2	274
M 36	55	36	60,79	4		492,18

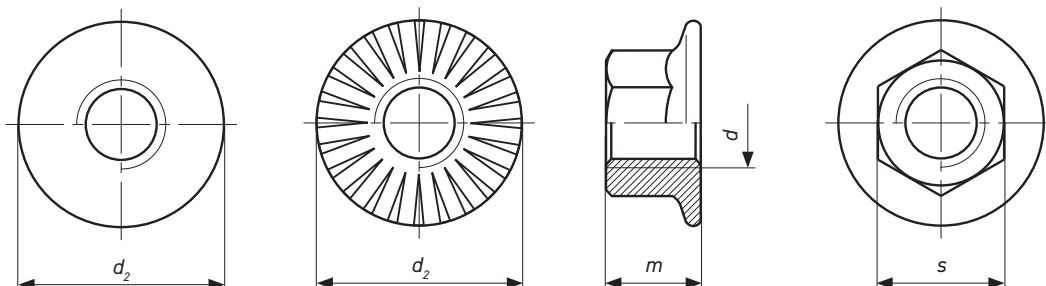
 Weight for 1000 pcs

(*) Tolerances are grade A until diameter 16, grade B over M16
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.
The weights indicated are approximate. **Other sizes available on request.**

HEXAGONAL FLANGED NUTS WITH OR WITHOUT SERRATION

ISO METRIC COARSE THREAD

ISO 4161 UNI - DIN 6923



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4

ACCORDING TO ISO 3506-2

CLASS

8/6S **10**

A2 **A4**

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A

ACCORDING TO ISO 4759-1 CAT A

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to
RoHS - Other coatings on request

<i>d</i>	<i>s</i>	<i>m</i> max	<i>d</i> ₂ max	 Kg
M 3	5,5	4	8	0,70
M 4	7	4,5	9,9	1,23
M 5	8	5	12,2	1,70
M 6	10	6	14,2	3,00
M 8	13	8	17,9	6,70
M 10	15	10	21,8	10,90
M 12	18	12	26	17,00
M 10	17	10	21,8	14,50
M 14	21	14	29,9	30
M 16	24	16	34,5	45

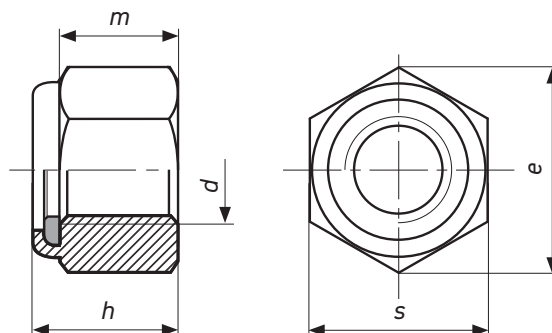
 Weight for 1000 pcs

The weights indicated are approximate. **Other sizes available on request.**

NYLON INSERT HIGH HEX LOCK NUTS

ISO METRIC COARSE AND FINE THREAD

ISO 7040-10512* UNI 7473 DIN 982



MATERIAL	STEEL		STAINLESS STEEL	
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4 ISO 2320		ACCORDING TO ISO 3506-1	
CLASS	8	10	A2	A4
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A - B		ACCORDING TO ISO 4759-1 CAT A-B	
AVAILABLE TREATMENT	White zinc plated or Yellow zinc plated according to RoHS Other coatings on request			

d	s	e min	h	m	coarse thread	Kg	fine thread	Kg
M 3	5,5		4		0,5			
M 4	7	7,74	5,8	3,2	0,7	1,1		
M 5	8	8,87	6,3	3,5	0,8	1,6		
M 6	10	11,05	8	4,5	1	2,9		
M 7	11	12,12	8,8	5,6	1	3,8		
M 8	13	14,38	9,5	6,5	1,25	6,3	1	6,23
M 10	17	18,90	11,5	8	1,5	13,6	1/1,25	13,6
M 12	19	21,10	14	10	1,75	19,3	1,25/1,5	18,9
M 14	22	24,49	16	11	2	29,2	1,5	28,6
M 16	24	26,75	18	12,8	2	37,7	1,5	37
M 18	27	30,14	20	14,4	2,5	54,0	1,5	52,4
M 20	30	33,53	22	16	2,5	73	1,5	70,4
M 22	32	35,72	25	17,6	2,5	88	1,5	84,5
M 24	36	39,98	28	19	3	125	2	122
M 27	41	45,63	31	21,6	3	183	2	179
M 30	46	51,28	33	24	3,5	258	2	250
M 33	50	55,80	35	24	3,5	326	2	318
M 36	55	61,31	39	28	4	424	3	418
M 39	60	66,96	42	31	4	561	3	552
M 42	65	72,61	45	33	4,5	662	3	628
M 45	70	78,26	47	36	4,5	860	3	
M 48	75	93,56	50	38	5	980	3	

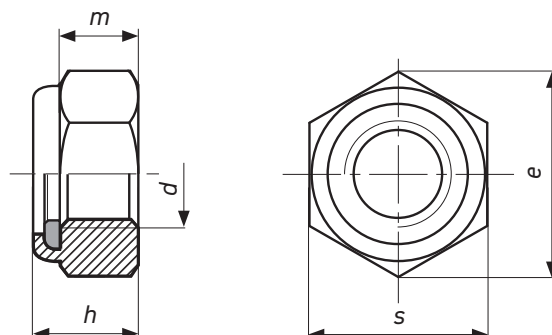
Weight for 1000 pcs

(*) ISO 7040 norm includes coarse thread nuts, ISO 10512 fine thread nuts.
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.
The weights indicated are approximate. **Other sizes available on request.**

NYLON INSERT THIN HEX LOCK NUTS

ISO METRIC COARSE AND FINE THREAD

ISO UNI DIN
10511* 7474 985



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4

ACCORDING TO ISO 3506-2

CLASS

04**

05

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A - B

ACCORDING TO ISO 4759-1 CAT A-B

AVAILABLE TREATMENT

White zinc plated or Yellow zinc plated according to RoHS
Other coatings on request

d	s	e min	h (***)	m	coarse thread	 Kg	fine thread	 Kg
M 3	5,5		4		0,5	0,5		
M 4	7	7,74	5	3,2	0,7	1,0		
M 5	8	8,87	5	3,5	0,8	1,4		
M 6	10	11,05	6	4,5	1	2,4		
M 7	11	12,12	7,5	5,6	1	3,0		
M 8	13	14,38	8	6,5	1,25	5,1	1	5,0
M 10	17	18,9	10	8	1,5	10,6	1,25	10,4
M 12	19	21,1	12	10	1,75	17,2	1,25	16,9
M 14	22	24,49	14	11	2	26	1,5	25,5
M 16	24	26,75	16 (15)	12,8	2	34	1,5	33,3
M 18	27	30,14	18,5 (16)	14,4	2,5	45	1,5	44,1
M 20	30	33,53	20 (17,5)	16	2,5	65	1,5	63,7
M 22	32	35,72	22 (19)	17,6	2,5	75	1,5	73,5
M 24	36	39,98	24 (21)	19	3	100	2	98,0
M 27	41	45,63	27 (22,5)	21,6	3	162	2	159
M 30	46	51,28	30 (24,5)	24	3,5	212	2	208
M 33	50	55,8	33 (26)	24	3,5	317	2	311
M 36	55	61,31	36 (30)	28	4	415	3	407
M 39	60	66,96	39 (32)	31	4	499	3	489
M 42	65	72,61	42	33	4,5	628	3	615
M 45	70	78,26	45	36	4,5	771	3	756
M 48	75	83,91	48	38	5	998	3	978

 Weight for 1000 pcs

(*) ISO 10511 includes coarse thread nuts.

(**) Low height of nuts does not allow the performance of UNI 3740-4 and DIN 267-4 as indicated for 8 class nuts also if steel quality is the same.
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.

(***) Sizes h between brackets are according to the norm UNI 7474.

The weights indicated are approximate. **Other sizes available on request.**

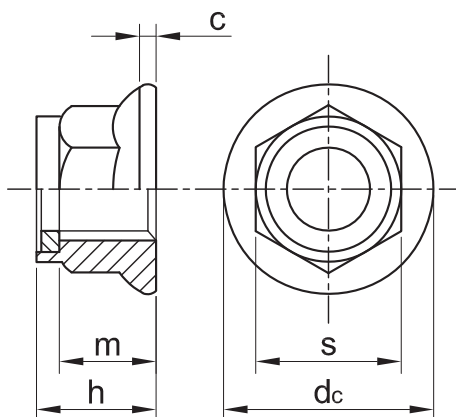
NYLON INSERT FLANGED HEX LOCK NUTS

ISO METRIC COARSE THREAD

ISO
7043

UNI
-

DIN
6926



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4 ISO 2320

ACCORDING TO ISO 3506-1

CLASS

8

10

A2

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A - B

ACCORDING TO ISO 4759-1 CAT A-B

AVAILABLE TREATMENT

White zinc plated or Yellow zinc plated according to RoHS
Other coatings on request

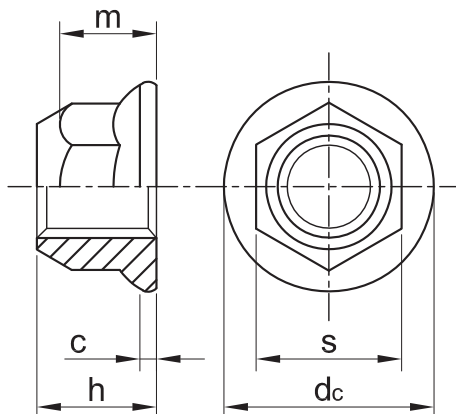
<i>d</i>	<i>s</i>	<i>dc</i> max	<i>h</i> max	<i>m</i>	<i>c</i> min	coarse thread	fine thread
M 5	8	11,8	7,1	4,7	1	0,8	
M 6	10	14,2	9,1	5,7	1,1	1	
M 8	13	17,9	11,1	7,6	1,2	1,25	1
M 10	15	21,8	13,5	9,6	1,5	1,5	1/1,25
M 12	18	26	16,1	11,6	1,8	1,75	1,25/1,5
M 14	21	29,9	18,2	13,3	2,1	2	1,5
M 16	24	34,5	20,3	15,3	2,4	2	1,5
M 20	30	42,8	24,8	18,9	3	2,5	1,5

For stainless steel A2 products, multiply the weight values for 1,01.
The weights indicated are approximate. **Other sizes available on request.**

FULL METAL FLANGED HEX LOCK NUTS

ISO METRIC COARSE THREAD

ISO 7044 UNI - DIN 6927



MATERIAL	STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4 ISO 2320	ACCORDING TO ISO 3506-1
CLASS	8 10	A2
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A - B	ACCORDING TO ISO 4759-1 CAT A-B
AVAILABLE TREATMENT	White zinc plated or Yellow zinc plated according to RoHS Other coatings on request	

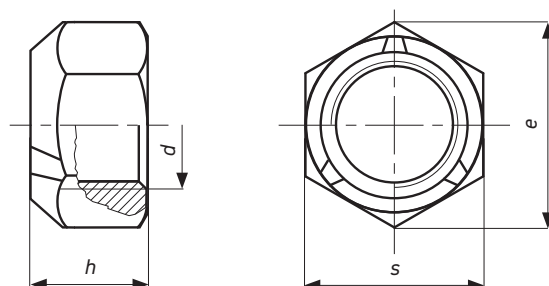
<i>d</i>	<i>s</i>	<i>dc max</i>	<i>h max</i>	<i>m</i>	<i>c min</i>	coarse thread	fine thread
M 5	8	11,8	7,1	4,7	1	0,8	
M 6	10	14,2	9,1	5,7	1,1	1	
M 8	13	17,9	11,1	7,6	1,2	1,25	1
M 10	15	21,8	13,5	9,6	1,5	1,5	1/1,25
M 12	18	26	16,1	11,6	1,8	1,75	1,25/1,5
M 14	21	29,9	18,2	13,3	2,1	2	1,5
M 16	24	34,5	20,3	15,3	2,4	2	1,5
M 20	30	42,8	24,8	18,9	3	2,5	1,5

For stainless steel A2 products, multiply the weight values for 1,01
The weights indicated are approximate. **Other sizes available on request.**

HEXAGON FULL METAL LOCK NUTS CONELOCK

ISO 7042 METRIC COARSE THREAD - ISO 10513 METRIC FINE THREAD

ISO 7042-10513 UNI - DIN 980V



MATERIAL	STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4 ISO 2320	ACCORDING TO ISO 3506-1
CLASS	8 10	A2 A4
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A - B	ACCORDING TO ISO 4759-1 CAT A-B
AVAILABLE TREATMENT	White zinc plated or Yellow zinc plated according to RoHS Other coatings on request	

d	s	h_{max}	e	coarse thread	fine thread	Kg
M 5	8	5,1	8,79	0,8		1,49
M 6	10	6	11,05	1		2,90
M 8	13	8	14,38	1,25		6,37
M 10	17/16	10	18,90	1,5	1,25	14,00
M 12	19/18	12	21,10	1,75	1,5	19,89
M 14	22/21	14	24,49	2	1,5	30,87
M 16	24	16	26,75	2	1,5	39,70
M 18	27	18	29,56	2	1,5	57,00
M 20	30	20	32,95	2	1,5	77,50

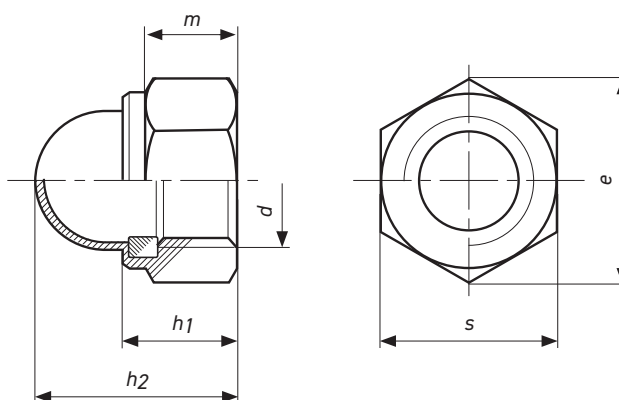
Weight for 1000 pcs

Anti Rust surface treatments have to be agreed between customer and supplier.
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.
The weights indicated are approximate. **Other sizes available on request.**

HEXAGON DOMED CUP LOCK NUTS

ISO METRIC COARSE THREAD

ISO UNI DIN
- - 986



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4 ISO 2320

ACCORDING TO ISO 3506-2

CLASS

8

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A

ACCORDING TO ISO 4759-1 CAT A

AVAILABLE TREATMENT

White zinc plated or Yellow zinc plated according to RoHS -
Other coatings on request

	s	e	h ₁	h ₂	m	thread	 Kg
M 4	7	7,74	5,6	9,6	3,2	0,7	1,40
M 5	8	8,87	6	10,5	4	0,8	1,55
M 6	10	11,05	7,5	12	5	1	3,30
M 8	13	14,38	8,9	14	6,4	1,25	5,30
M 10	17	18,9	10,5	18,1	7,8	1,5	10,70
M 12	19	21,1	13,5	22,5	9,6	1,75	19,00
M 14	22	24,49	15,5	26,4	11,7	2	26,80
M 16	24	26,75	16,5	27,5	12,5	2	37,10
M 20	30	33,53	21	35	17	2,5	111,00

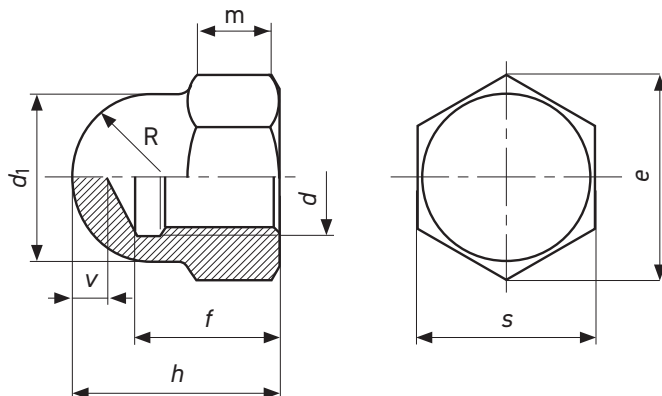
 Weight for 1000 pcs

The weights indicated are approximate. **Other sizes available on request.**

HEX DOMED CAP NUTS

ISO METRIC COARSE THREAD

ISO
-
UNI
5721
DIN
1587



MATERIAL	STEEL	STAINLESS STEEL	BRASS
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4	ACCORDING TO ISO 3506-2	ACCORDING TO DIN 267-4 UNI 3740-4
CLASS	8	A2 A4	OT
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A-B*	ACCORDING TO ISO 4759-1 CAT A-B*	ACCORDING TO ISO 4759-1 CAT A-B*
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request		

<i>d</i>	<i>d</i> ₁	<i>e</i> min	<i>f</i> Js15	<i>h</i> h14	<i>m</i> Js14	<i>R</i>	<i>s</i> nominal	<i>tolerances</i>	<i>v</i> min	Kg
M 3	5	6,08	4	5	2,4	2,50	5,5	h12	1	1,0
M 4	6,5	7,74	5	8	3,2	3,25	7		1	1,5
M 5	7,5	8,87	7	10	4	3,75	8		1	3,9
M 6	9,5	11,05	8	12	5	4,75	10		2	4,6
M 8	12,5	14,38	11	15	6,5	6,25	13	h13	2	11,0
M 10	16	18,90	13	18	8	8,00	17/16		2	20,1
M 12	18	21,10	16	22	10	9,00	19/18		3	28,3
M 14	21	24,49	18	25	11	10,50	22/21		3	40,2
M 16	23	26,75	21	28	13	11,50	24		3	54,3
M 18	26	30,14	25	32	15	13,00	27		3	95,0
M 20	28	33,53	26	34	16	14,50	30	h14	3	104,0
M 22	31	35,72	29	39	18	15,50	32/34		3	129,0
M 24	34	39,98	31	42	19	17,00	36		3	216,0

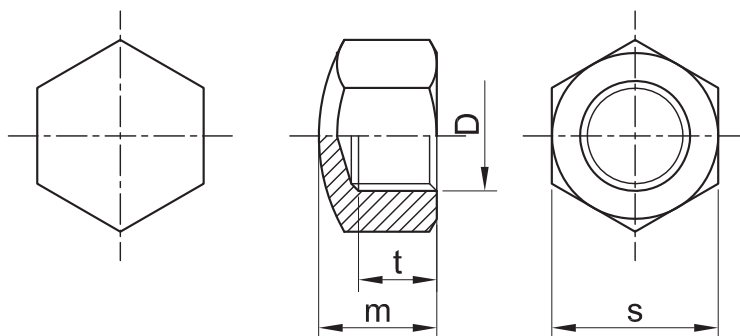
Weight for 1000 pcs

(*) Tolerances are grade A until diameter 16, grade B over M16
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.
For the weights of the brass products multiply the values by 1,083.
The weights indicated are approximate. **Other sizes available on request.**

HEXAGON CAP NUTS LOW TYPE

ISO METRIC COARSE THREAD AND FINE THREAD

ISO UNI DIN
- - 917



MATERIAL	STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN ISO 898-2	ACCORDING TO ISO 3506-4
CLASS	8	A2 A4
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A	ACCORDING TO ISO 4759-1 CAT A
AVAILABLE TREATMENT	Plain - White zinc plated according to RoHS. Other coatings on request	

<i>d</i>	<i>s</i>	<i>m</i>	<i>m min</i>	<i>t min</i>	<i>t</i>	<i>coarse thread</i>	<i>fine thread</i>	 Kg
M 3	5,5	-	-	-	-	0,5	-	-
M 4	7	5,7	1	4,16	8	0,7	-	1,31
M 5	8	7	1	4,96	10	0,8	-	2,2
M 6	10	9	1,5	6,71	12	1	-	4
M 8	13	12	2	9,21	15	1,25	1	9,5
M 10	17	14	2	10,65	20	1,5	1,25	19,3
M 12	19	16	2	13,15	25	1,75	1,25	26,3
M 14	22	18	2	14,65	28	2	1,5	33
M 16	24	20	2	16,65	30	2	1,5	48,1
M 18	27	22	2	18,58	32	2,5	1,5	70
M 20	30	25	2,5	20,58	35	2,5	1,5	94,1
M 22	32	28	3	21,58	35	2,5	1,5	119
M 24	36	30	3	23,58	40	3	2	165
M 27	41	32	3	25,58	50	3	2	229
M 30	46	34	3	27,58	60	3,5	2	310
M 33	50	-	-	-	-	3,5	2	-
M 36	55	44	4	35,5	70	4	3	577

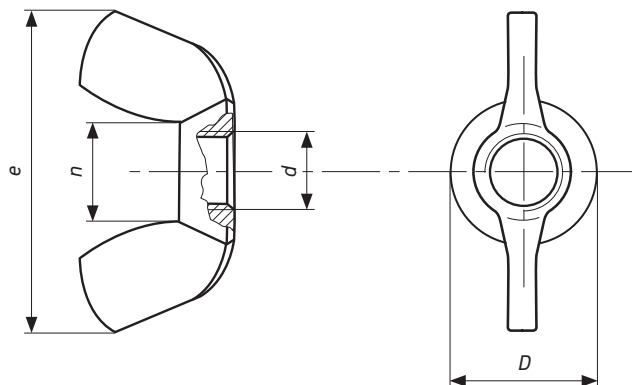
 Weight for 1000 pcs

For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.
The weights indicated are approximate. **Other sizes available on request.**

WING NUTS FORM A

ISO METRIC COARSE THREAD

ISO UNI DIN
- 5448 315*



MATERIAL	STEEL	STAINLESS STEEL	BRASS
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4	ACCORDING TO ISO 3506-2	
TENSILE STRENGTH			250 ÷ 400 N/mm ²
CLASS	6	A2 A4	OT
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT C	ACCORDING TO ISO 4759-1 CAT C	ACCORDING TO ISO 4759-1 CAT C
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request		

<i>d</i>	<i>D</i>	<i>n</i>	<i>e</i>	 Kg
M 3	8	5,2	17,6	1,70
M 4	8	5,2	17,6	1,64
M 5	10,3	6,2	22,5	3,46
M 6	12,7	8,8	27,2	6,45
M 8	13,8	9,2	30,3	8,0
M 10	16,5	11,4	35,8	13,5
M 12	22,5	14,4	48	34,7
M 14	26,6	17,5	63,5	60
M 16	26,6	17,5	63,5	57

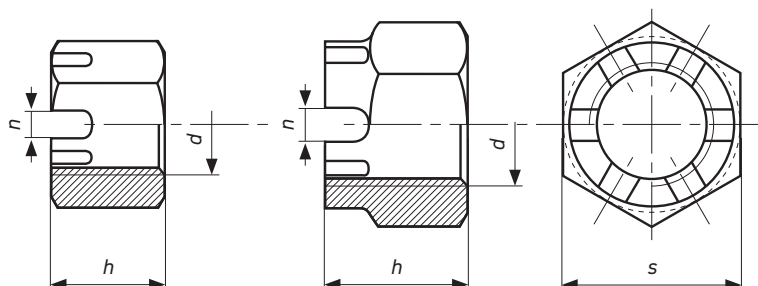
 Weight for 1000 pcs

(*) Version according to DIN 315 has different wing shape and dimensions.
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.
For the weights of the brass products multiply the values by 1,083.
The weights indicated are approximate. **Other sizes available on request.**

STANDARD CASTLE HEX NUTS

ISO METRIC COARSE AND FINE THREAD

ISO 7035 UNI 5593 DIN 935



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4

ACCORDING TO ISO 3506-1

CLASS

6/5S

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A - B*

ACCORDING TO ISO 4759-1 CAT A-B*

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

d	h	s	n	coarse thread	 Kg	fine thread	 Kg
M 8	9,5	13	2	1,25	7,35	1	7,2
M 10	12	17	2,5	1,5	15,8	1,25	15,5
M 10	12	17	2,5		15,8	1	15,5
M 12	15	19	3,2	1,75	22,6	1,25	22,2
M 12	15	19	3,2		22,6	1,5	22,2
M 14	16	22	3,2	2	27,0	1,5	26,6
M 16	19	24	4	2	38,9	1,5	37,9
M 18	21	27	4	2,5	57,5	1,5	54,6
M 20	22	30	4	2,5	75,2	1,5	71,9
M 22	26	32	5	2,5	93	1,5	88,7
M 24	27	36	5	3	131	2	126
M 27	30	41	5	3	192	2	187
M 30	33	46	7	3,5	264	2	254
M 33	35	50	7	3,5	333	2	320
M 36	38	55	7	4	447	3	438
M 39	40	60	7	4	584	3	573
M 42	46	65	9	4,5	710	3	690
M 45	48	70	9	4,5	860	3	835
M 48	50	75	9	5	1060	3	1030
M 52	54	80	9	5	1300	3	1260
M 56	57	85	9	5,5	1500	4	1480

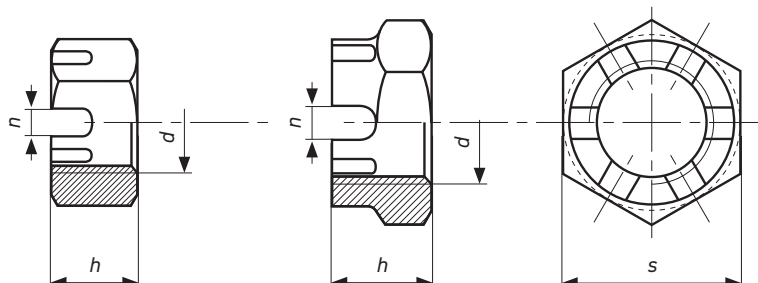
 Weight for 1000 pcs

(*) Tolerances are grade A until diameter M16 grade B over M16.
The weights indicated are approximate. **Other sizes available on request.**

THIN CASTLE HEX NUTS

ISO METRIC COARSE AND FINE THREAD

ISO UNI DIN
- 5594 937*



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4

ACCORDING TO ISO 3506-1

CLASS

6/5S

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A -B**

ACCORDING TO ISO 4759-1 CAT A-B*

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

d	h	h DIN	s	n	coarse thread	 Kg	fine thread	 Kg
M 8	8		13	2	1,25	6,13	1	6,03
M 10	10		17	2,5	1,5	12,89	1,25	12,72
M 10	10	9	17	2,5		12,89	1	12,72
M 12	12	10	19	3,2	1,75	17,5	1,25	17
M 12	12	10	19	3,2		17,5	1,5	17
M 14		14	22	3,2	2	20,3	1,5	19,06
M 16	14	12	24	4	2	26,2	1,5	25,5
M 18		13	27	4	2,5	37,2	1,5	35,7
M 20		13	30	4	2,5	47,5	1,5	45,4
M 22		13	32	5	2,5	59,5	1,5	56,6
M 24		15	36	5	3	79,9	2	76,9
M 27	20	15	41	5	3	118	2	114
M 30	21	17	46	7	3,5	150	2	145
M 33	23	18	50	7	3,5	201	2	193
M 36	23	20	55	7	4	246	3	239
M 39	25	20	60	7	4	335	3	329
M 42	28	22	65	9	4,5	370	3	357
M 45	30	23	70	9	4,5	447	3	433
M 48	30	25	75	9	5	552	3	535
M 52	32	27	80	9	5	678	3	655
M 56	37		85	9	5,5	780	4	770

 Weight for 1000 pcs

(*) The norm DIN 937 is similar to UNI 5594, from which differs mainly for the lower height.

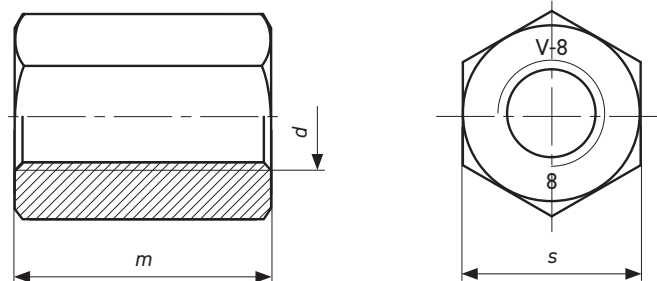
(**) Tolerances are grade A until diameter M16 grade B over M16.

The weights indicated are approximate. **Other sizes available on request.**

EXTENSION NUTS

ISO METRIC COARSE THREAD

ISO UNI DIN
- 5535 6334



MATERIAL	STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4	ACCORDING TO ISO 3506-1
CLASS	8 10	A2 A4
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A -B*	ACCORDING TO ISO 4759-1 CAT A-B*
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request	

d	s	m	 Kg
M 5	8	15	4,0
M 6	10	20	9,0
M 6	10	30	13,8
M 6	10	40	18,6
M 8	13	20	16,0
M 8	13	24	19,0
M 8	13	30	24,0
M 8	13	40	32,0
M 10	17	20	28,0
M 10	17	30	42,0
M 10	17	45	63,0
M 12	19	30	50,0
M 12	19	36	60,0
M 12	19	50	100,0
M 16	24	48	120,0
M 16	24	60	150,0
M 20	30	60	235,0
M 24	36	72	410,0

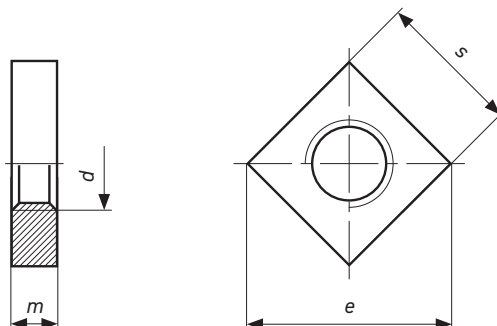
 Weight for 1000 pcs

(*) Tolerances are grade A until diameter M16 grade B over M16.
The weights indicated are approximate. **Other sizes available on request.**

THIN SQUARE NUTS

ISO METRIC COARSE THREAD

ISO UNI DIN
- 5596 562



MATERIAL	STEEL	STAINLESS STEEL		BRASS
MECHANICAL PROPERTIES	ACCORDING TO 267-4 - UNI 3740-4		ACCORDING TO ISO 3506-4	
CLASS	8	A2	A4	OT
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT A	ACCORDING TO ISO 4759-1 CAT A		ACCORDING TO ISO 4759-1 CAT A
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS. Other coatings on request			

<i>d</i>	<i>e UNI</i>	<i>m UNI</i>	<i>s UNI</i>	<i>e DIN</i>	<i>m DIN</i>	<i>s DIN</i>	<i>thread</i>	 Kg
M 3	7,8	1,6	5,5	7	1,8	5,5	0,5	0,307
M 4	9,9	2	7	8,9	2,2	7	0,7	0,61
M 5	11,3	2,5	8	10,2	2,7	8	0,8	0,98
M 6	14,1	3	10	12,7	3,2	10	1	1,81
M 8	18,4	4	13	16,5	4	13	1,25	4,01
M 10	24	5	17	20,2	5	16	1,5	8,8

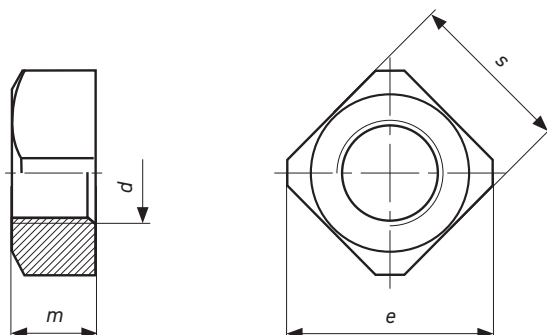
 Weight for 1000 pcs

For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013. For the weights of the brass products multiply the values by 1,083. The weights indicated are approximate. **Other sizes available on request.**

CHAMFERED SQUARE NUTS

ISO METRIC COARSE THREAD

ISO UNI DIN
- 5597 557



MATERIAL	STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO DIN 267-4 UNI 3740-4	ACCORDING TO ISO 3506-1
CLASS	8	A2 A4
TOLLERANCES	ACCORDING TO ISO 4759-1 CAT C	ACCORDING TO ISO 4759-1 CAT C
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request	

<i>d</i>	<i>e</i> min	<i>m</i>	<i>s</i>	 Kg
M 4	8,9	3	7	0,62
M 5	9,93	4	8	1,31
M 6	12,53	5	10	2,77
M 8	16,34	6,5	13	5,5
M 10	21,54	8	17	13
M 12	24,2	10	19	19,1
M 14	28	11	22	28,5
M 16	32	13	24	38,2
M 20	40	16	30	73,5

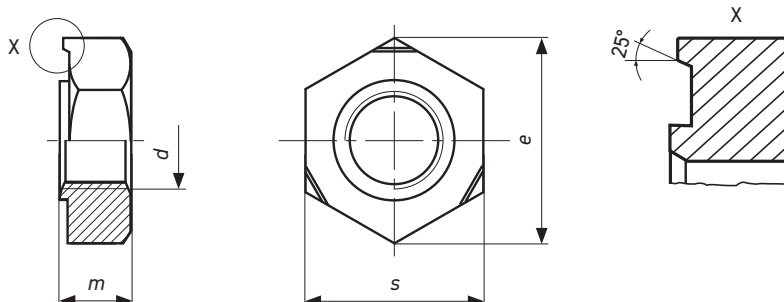
 Weight for 1000 pcs

For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013. For the weights of the brass products multiply the values by 1,083. The weights indicated are approximate. **Other sizes available on request.**

WELDING HEX NUTS

ISO METRIC COARSE THREAD

ISO UNI DIN
- - 929



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 929

ACCORDING TO ISO 3506-2

CLASS

R50

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A

ACCORDING TO ISO 4759-1 CAT A

AVAILABLE TREATMENT

Plain - Other coatings on request

<i>d</i>	<i>e</i> min	<i>m</i>	<i>s</i>	 Kg	proof charge in N CLASS 8
M 3	8,15	3	7,5	0,78	3.800
M 4	9,83	3,5	9	1,13	6.800
M 5	10,95	4	10	1,73	11.000
M 6	12,02	5	11	2,5	15.500
M 8	15,38	6,5	14	5,27	28.300
M 10	18,74	8	17	9,58	44.800
M 12	20,91	10	19	13,7	65.300
M 16	26,51	13	24	28,5	123.000

 Weight for 1000 pcs

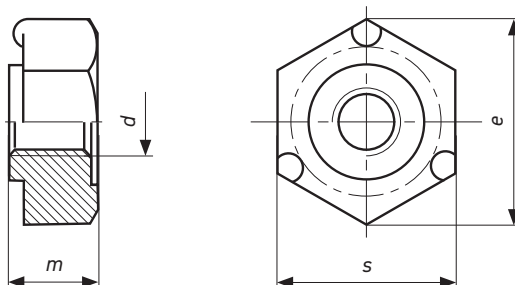
For stainless steel A2 products, multiply the weight values for 1,01.
The weights indicated are approximate. **Other sizes available on request.**

WELDING NUTS WIDE HEXAGON

ISO METRIC COARSE THREAD

ISO UNI DIN

- - -



MATERIAL

STEEL

MECHANICAL PROPERTIES

ACCORDING TO **DIN 929**

CLASS

R50

TOLLERANCES

ACCORDING TO **ISO 4759-1 CAT A**

AVAILABLE TREATMENT

Plain - Other coatings on request

<i>d</i>	<i>e</i> min	<i>m</i>	<i>s</i>	 Kg
M 4	14,38	6	13	
M 5	14,38	6	13	4,8
M 6	14,38	6	13	4,8
M 8	18,9	7	17	9,0
M 10	21,1	8	19	
M 12	24,49	10	22	

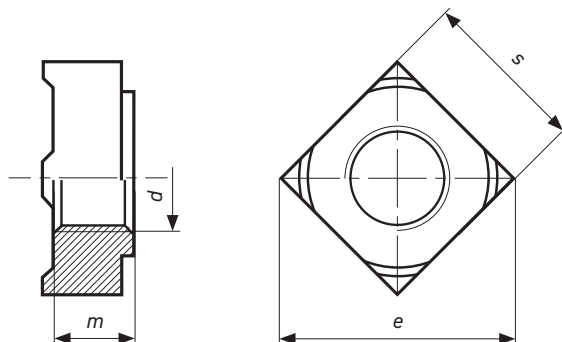
 Weight for 1000 pcs

The weights indicated are approximate. **Other sizes available on request.**

SQUARE WELDING NUTS

ISO METRIC COARSE THREAD

ISO UNI DIN
- - 928



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 929

ACCORDING TO ISO 3506-2

CLASS

R50

A2

A4

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A

ACCORDING TO ISO 4759-1 CAT A

AVAILABLE TREATMENT

Plain - Other coatings on request

d	e min	m	s	 Kg	proof charge in N
M 4	9	3,5	7	0,81	6.800
M 5	12	4,2	9	1,7	11.000
M 6	13	5	10	2,4	15.500
M 8	18	6,5	14	6,5	28.300
M 10	22	8	17	11,3	44.800
M 12	25	9,5	19	16,6	65.300
M 16	32	13	24	35,8	123.000

 Weight for 1000 pcs

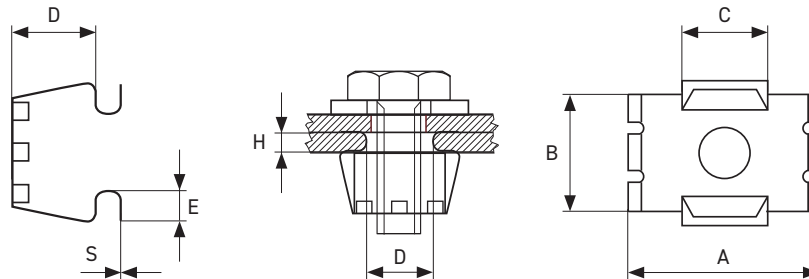
The weights indicated are approximate. **Other sizes available on request.**

CAGE NUTS

ISO METRIC COARSE THREAD

ISO UNI DIN

- - -



MATERIAL

STEEL

MECHANICAL PROPERTIES

ACCORDING TO DIN 267-4 UNI 3740-4

CLASS

8/6S

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A

AVAILABLE TREATMENT

White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

CAGE SIZES

A	B	C	D	E	S	F	R	H	hole
10,3	8,3	6,5	4,8	2	0,5	7	0,5	1 ÷ 2	M4 ÷ M5
12,8	11,3	9,5	5,8	2,4	0,5	9	0,5	0,7 ÷ 1,8	M5 ÷ M6
12,8	11,3	9,5	5,8	2,4	0,5	9	0,5	2,2 ÷ 3,2	M5 ÷ M6
15	11,3	9,5	6	3,2	0,5	11	1	1,2 ÷ 2,2	M6
16	11,3	11,5	7	4	0,6	13	1	2 ÷ 3	M8 ÷ M10
16	11,3	11,5	7	4	0,6	13	1	0,7 ÷ 2	M8 ÷ M10

NUT SIZES

d	M 4	M 5	M 5	M 6	M 6	M 8	M 10
square	8x8	8x8	11x11	11x11	12,7x12,7	14x14	14x14
thickness	3,5	3,5	4,5	4,5	4,5	5,5	5,5

H = Thickness of steel where the cage is engaged

F = Hole to fit the collar of cage

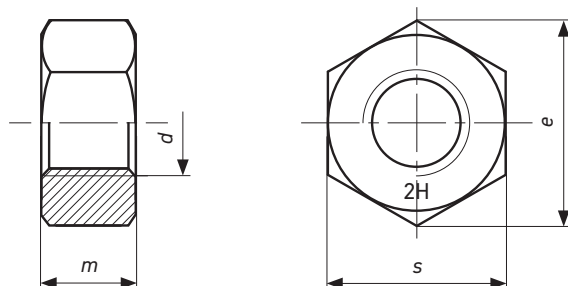
The weights indicated are approximate. **Other sizes available on request.**

METRICS HEAVY HEXAGONAL NUTS

ISO METRIC COARSE THREAD

ANSI
B.18.2.2

ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)



MATERIAL

STEEL

MECHANICAL PROPERTIES

ACCORDING TO ASTM 194

CLASS

2H

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A - B

AVAILABLE TREATMENT

Black - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

d	s	m	e min	thread	 Kg
M10	17	10	18,9	1,5	14,3
M12	19	12	21,1	1,75	20,3
M14	22	14	24,49	2	31,5
M16	24	16	26,75	2	40,5
M18	27	18	29,56	2,5	58,2
M20	30	20	32,95	2,5	79,1
M22	32	22	35,03	2,5	94,9
M24	36	24	39,55	3	137
M27	41	27	45,2	3	200
M30	46	30	50,85	3,5	284
M33	50	33	55,37	3,5	361
M36	55	36	60,79	4	483

 Weight for 1000 pcs

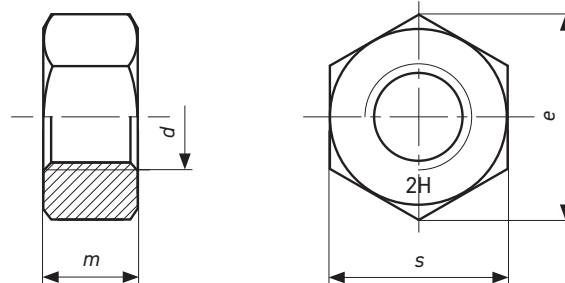
(**) Tolerances are grade A until diameter M16 grade B over M16.
The weights indicated are approximate. **Other sizes available on request.**

UNC HEAVY HEXAGONAL NUTS

US STANDARD UNIFIED NATIONAL COARSE THREAD

ANSI
B.18.2.2

ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)



MATERIAL

STEEL

MECHANICAL PROPERTIES

ACCORDING TO ASTM 194

CLASS

2H

TOLLERANCES

ACCORDING TO ASME ANSI B 1.1 - 2B

AVAILABLE TREATMENT

Black - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

<i>d</i> thread thread x inch		<i>s</i>			<i>e</i>		<i>m</i>			 Kg
		nom.	max	min	max	min	nom.	max	min	
3/8"	16	11/16"	0,688	0,699	0,794	0,763	23/64"	0,38	0,34	13,6
1/2"	13	7/8"	0,875	0,850	1,010	0,969	31/64"	0,5	0,46	31,8
5/8"	11	1" 1/16	1,062	1,031	1,227	1,175	39/64"	0,63	0,59	54,4
3/4"	10	1" 1/8	1,250	1,212	1,443	1,382	47/64"	0,76	0,71	90,7
7/8"	9	1" 7/16	1,438	1,394	1,660	1,589	55/64"	0,89	0,83	136,1
1"	8	1" 5/8	1,625	1,575	1,876	1,796	63/64"	1,012	0,956	195,0
1" 1/8	7	1-13/16	1,812	1,756	2,093	2,002	1" 7/64	1,139	1,079	267,6
1" 1/4	7	2	2,000	1,938	2,309	2,209	1" 7/32	1,251	1,187	358,3
1" 3/8	6	2" 3/16	2,188	2,119	2,526	2,416	1" 11/32	1,378	1,310	462,7
1" 1/2	6	2" 3/8	2,375	2,300	2,742	2,622	1" 15/32	1,505	1,433	594,2
1" 3/4	5	2" 3/4	2,750	2,662	3,175	3,035	1" 23/32	1,759	1,679	925,3
2"	4 1/2	3" 1/8	3,125	3,025	3,608	3,449	1" 31/32	2,013	1,925	1356,3

 Weight for 1000 pcs

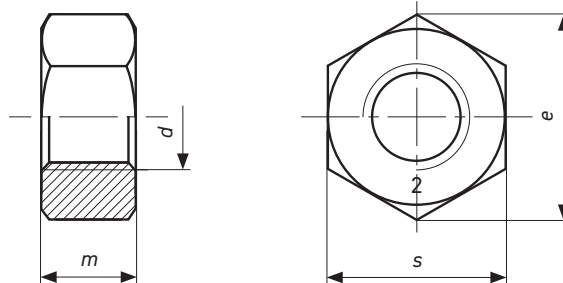
The weights indicated are approximate. **Other sizes available on request.**

UNC/UNF HEXAGONAL NUTS

US STANDARD UNIFIED NATIONAL COARSE AND FINE THREAD

ANSI
B.18.2.2

ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO SAE J 995

ACCORDING TO SAE J 995

CLASS

5

A2

A4

TOLLERANCES

ACCORDING TO ASME ANSI B 1.1 - 2B

ACCORDING TO ASME B18.6.3

AVAILABLE TREATMENT

Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request

d		thread thread x inch		s		m		Kg
inches	mm.	UNC	UNF	inches	mm.	inches	mm.	
1/4"	6,35	20	28	7/16"	11,11	7/32"	5,56	3,32
5/16"	7,94	18	24	1/2"	12,70	17/64"	6,75	4,98
3/8"	9,53	16	24	9/16"	14,29	21/64"	8,34	7,24
7/16"	11,11	14	20	11/16"	17,46	3/8"	9,52	12,9
1/2"	12,70	13	20	3/4"	19,05	7/16"	11,11	17,9
9/16"	14,29	12	18	7/8"	22,23	31/64"	12,30	26,4
5/8"	15,88	11	18	15/16"	27,81	35/64"	13,89	33,2
3/4"	19,05	10	16	1" 1/8	28,58	41/64"	16,27	53,9
7/8"	22,23	9	14	1" 5/16	33,34	3/4"	19,05	86,1
1"	25,40	8	12	1" 1/2	38,10	55/64"	21,83	128

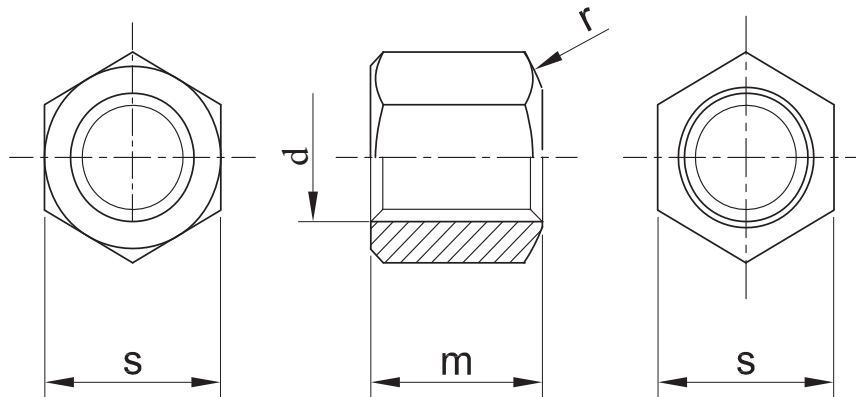
Weight for 1000 pcs

(**) Tolerances are grade A until diameter M16 grade B over M16.
The weights indicated are approximate. **Other sizes available on request.**

HIGH HEX NUTS 1,5 X D

METRIC COARSE THREAD

ISO UNI DIN
- - 6330 B



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO UNI EN ISO 892-2

ACCORDING TO ISO 3506-2

CLASS

8

10

A2

TOLLERANCES

ACCORDING TO ISO 4759-1 CAT A

ACCORDING TO ISO 4759-1 CAT A

AVAILABLE TREATMENT

Plain - White zinc plated - Other coatings on request

d	s	m	r	coarse thread	Kg
M 6	10	9	9	1	4
M 8	13	12	11	1,25	9
M 10	17	15	15	1,5	17
M 12	19	18	17	1,75	24
M 14	22	21	20	2	
M 16	24	24	22	2	57
M 18	27	27	25	2,5	
M 20	30	30	27	2,5	107
M 22	32	33	29	2,5	
M 24	36	36	32	3	187
M 27	41	40	37	3	
M 30	46	45	41	3,5	395



For stainless steel A2 products, multiply the weight values for 1,01.
The weights indicated are approximate. **Other sizes available on request.**