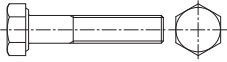
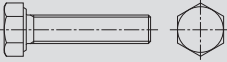
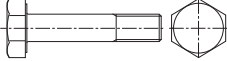
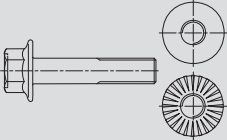
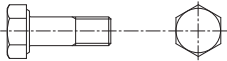
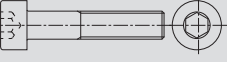
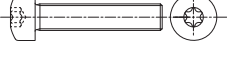
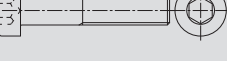
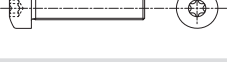
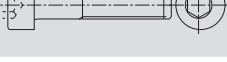
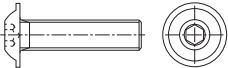
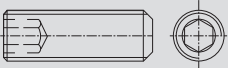
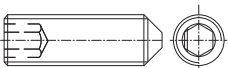
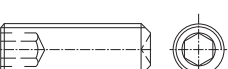
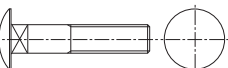
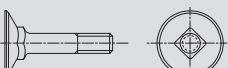
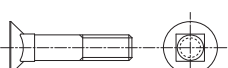
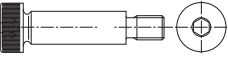
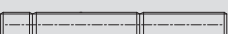
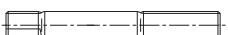
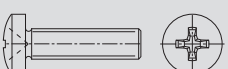
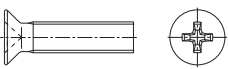
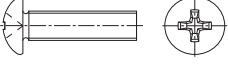
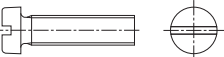
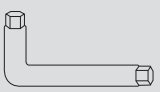
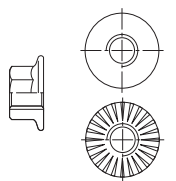


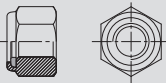
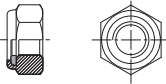
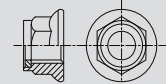
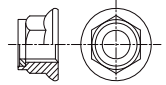
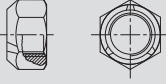
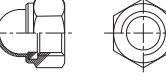
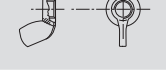
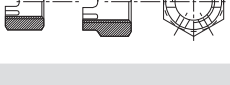
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	FULL THREAD HEXAGON HEAD SCREWS	4017	5739	933	4
	PARTIAL THREAD HEXAGON HEAD SCREWS	8765	5738	960	6
	FULL THREAD HEXAGON HEAD SCREWS	8676	5740	961	8
	LARGE HEX HEAD SCREWS FOR STEEL STRUCTURES	-	5712	6914	10
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	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

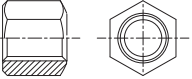
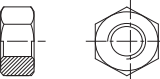
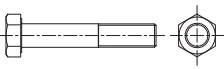
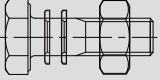
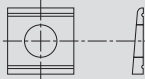
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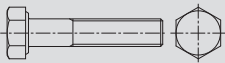
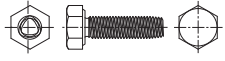
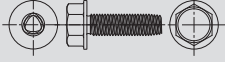
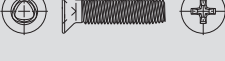
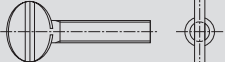
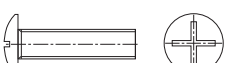
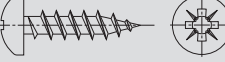
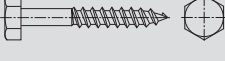
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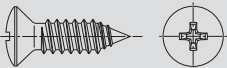
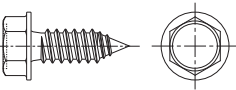
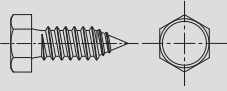
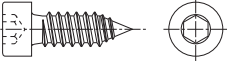
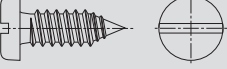
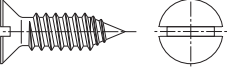
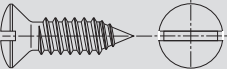
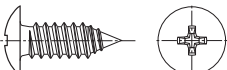
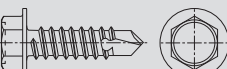
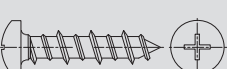
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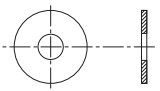
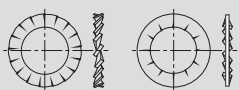
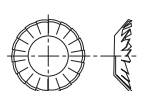
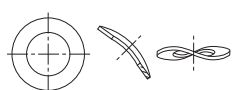
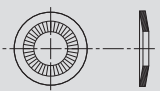
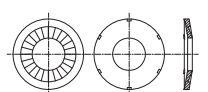
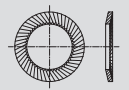
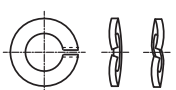
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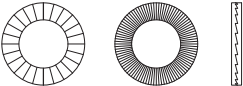
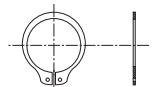
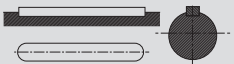
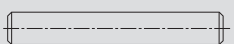
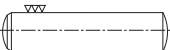
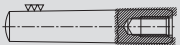
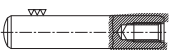
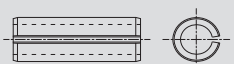
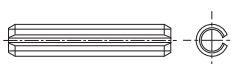
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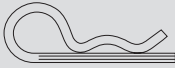
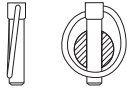
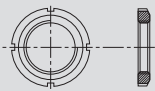
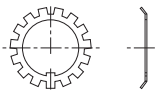
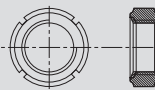
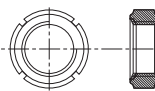
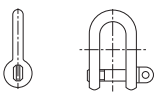
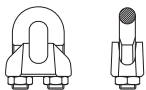
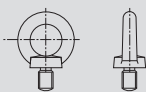
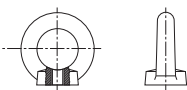
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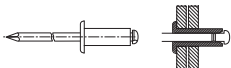
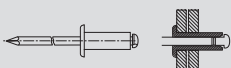
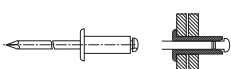
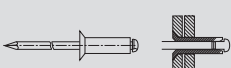
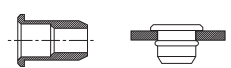
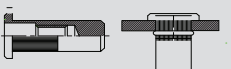
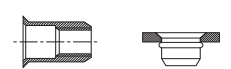
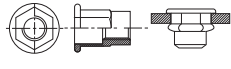
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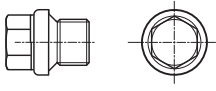
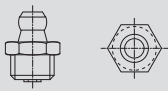
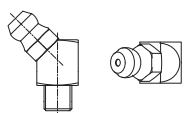
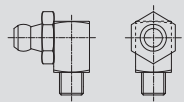
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COUNTERSUNK SLOTTED RAISED HEAD SCREWS	2010	6110	964	53
TEMPERED DOWEL PINS	8734A	6364A	6325	155
TEMPERED DOWEL PINS WITH INTERNAL THREAD	8735	6364B	7979D	157
METRIC THREADED RODS	-	6547	975	42
FLAT WASHERS	7089	6592	125 A	130
CHANNEL CLAMPING PLATES 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

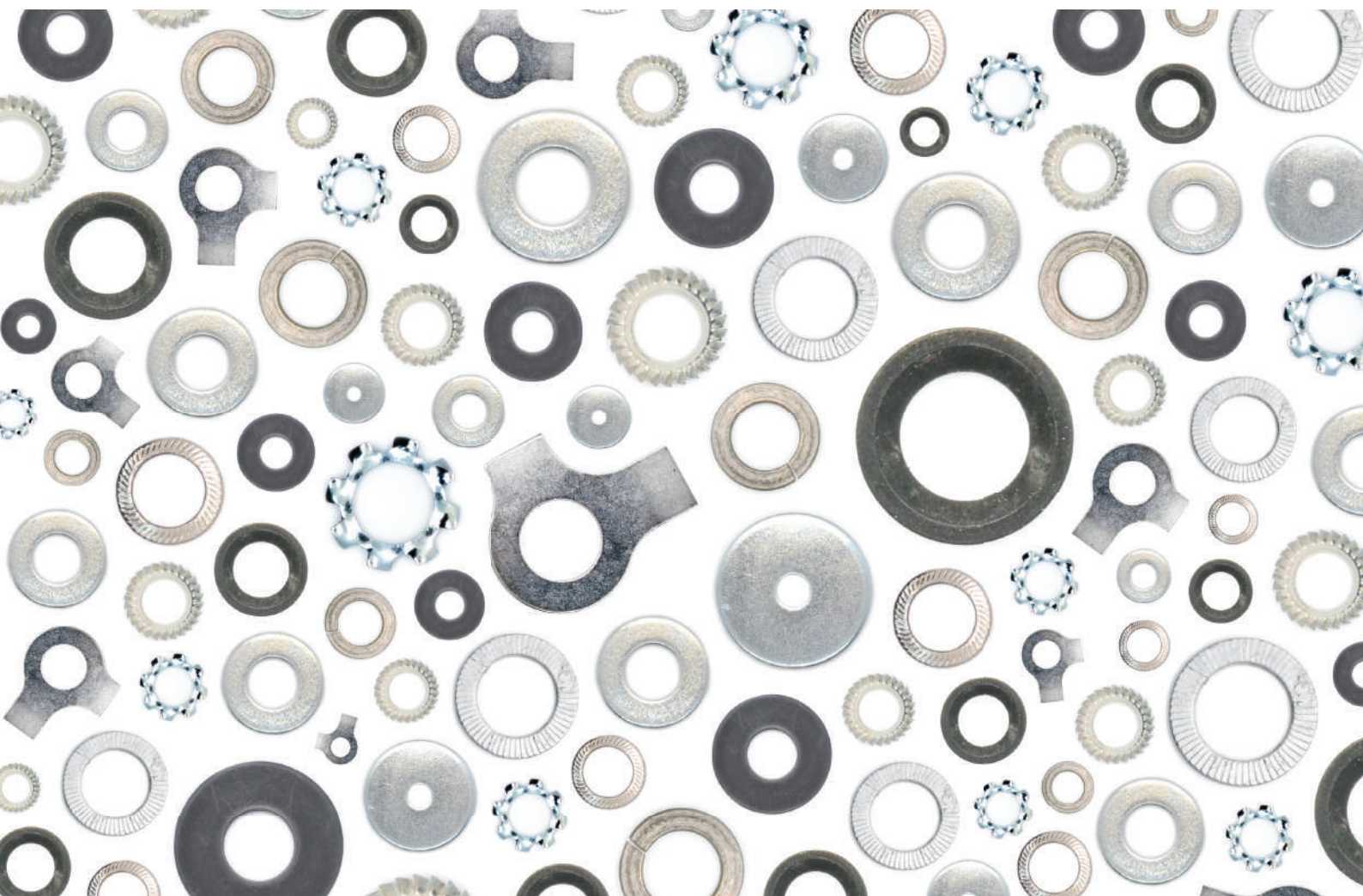
DIN STANDARDS INDEX

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

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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

WASHERS



Washers are essential components in fastening systems, used in combination with screws, bolts, and nuts to evenly distribute the load, protect surfaces, and improve tightening performance.

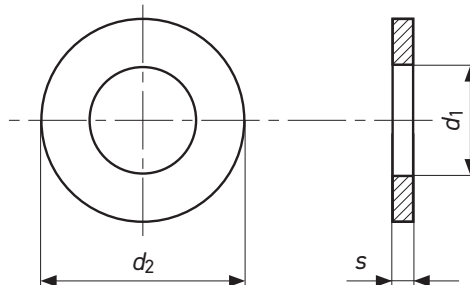
Flat washers, the most common type, are primarily used to spread the clamping pressure over a wider surface area, preventing material damage and improving assembly stability. Spring washers (also known as Grover washers) are used to prevent loosening of screws caused by vibrations or movement, thanks to their helical shape which applies a return force.

Toothed washers, available in internal or external versions, provide an anti-rotation effect, improving resistance to loosening under dynamic conditions. Other types include conical washers, used to compensate for misalignments, and safety washers, employed in high mechanical stress applications.

Manufactured in a variety of materials – zinc-plated steel, stainless steel, copper, and plastic – washers are used across multiple industries: mechanical, construction, electrical, and automotive. The correct choice of washer significantly contributes to the reliability and durability of mechanical joints.

FLAT WASHERS

ISO 7089 UNI 6592 DIN 125 A



MATERIAL	STEEL	STAINLESS STEEL	BRASS
MECHANICAL PROPERTIES	ACCORDING TO ISO 4759 - 3	ACCORDING TO ISO 4759 - 3	
CLASS	100 HV 200 HV 300 HV	A2 A4	OT
TOLLERANCES	ACCORDING TO UNI 6602 CAT A - ISO 4759-3	ACCORDING TO UNI 6602 CAT A - ISO 4759 - 3	
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Hot dip galvanized - Other coatings on request		

d	d ₁ min	d ₂ max	s nom	Kg
M 2	2,2	5	0,3	0,037
M 2,5	2,7	6	0,5 (± 0,05)	0,088
M 3	3,2	7	0,5 (± 0,05)	0,119
M 4	4,3	9	0,8 (± 0,1)	0,308
M 5	5,3	10	1,0 (± 0,1)	0,443
M 6	6,4	12	1,6 (± 0,2)	1,02
M 8	8,4	16	1,6 (± 0,2)	1,83
M 10	10,5	20	2,0 (± 0,2)	3,57
M 12	13,0	24	2,5 (± 0,2)	6,27
M 14	15,0	28	2,5 (± 0,3)	8,62
M 16	17,0	30	3 (± 0,3)	11,3
M 18	19,0	34	3 (± 0,3)	14,7
M 20	21,0	37	3 (± 0,3)	17,2
M 22	23,0	39	3 (± 0,3)	18,3
M 24	25,0	44	4 (± 0,3)	32,3
M 27	28,0	50	4 (± 0,3)	42,3
M 30	31,0	56	4 (± 0,3)	53,6
M 33	34,0	60	5 (± 0,6)	75,3
M 36	37,0	66	5 (± 0,6)	92,1
M 39	40,0	72	6 (± 1)	133
M 42	43,0	78	7 (± 1)	183
M 45	46,0	85	7 (± 1)	220
M 48	50,0	92	8 (± 1)	294
M 52	54,0	98	8 (± 1)	330
M 56	58,0	105	9 (± 1)	425
M 60	62,0	110	9 (± 1)	458

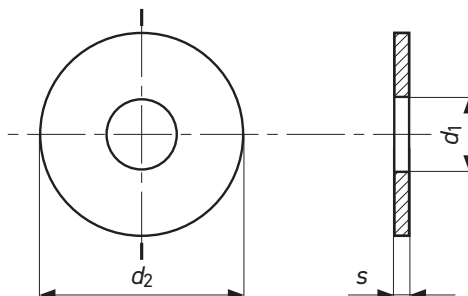
Weight for 1000 pcs

(*) The standard ISO is different from UNI 6592 and DIN 125A for the surface hardness (ISO 7089)

For product weights in stainless steel A2 multiply the values by 1.01, A4 by 1.013. For brass product weights multiply the values by 1.083.

WIDE FLAT WASHERS

ISO 7093 UNI 6953 DIN 9021



MATERIAL	STEEL HARDENED	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN ISO 10025	ACCORDING TO UNI EN ISO 10025
CLASS	100 HV	A2 A4
TOLLERANCES	ACCORDING TO UNI 6602 CAT A - ISO 4759-3	ACCORDING TO UNI 6602 CAT A - ISO 4759-3
AVAILABLE TREATMENT	Plain - White zinc plated or Yellow zinc plated according to RoHS - Other coatings on request	

d	d ₁	d ₂	s	 Kg
M3	3,2	9	0,8	0,35
M4	4,3	12	1	0,73
M4*	4,3	16	1	1,98
M5	5,3	15	1,2	1,35
M5*	5,5	20	2	1,94
M6	6,4	18	1,6	2,79
M6*	6,6	24	2	5,75
M8	8,4	24	2	4,0
M8*	9	32	3	12,91
M10	10,5	30	2,5	12,2
M10*	11	40	3	32,5
M12	13	37	3	15,6
M12*	13,5	48	4	35,4
M14	15	44	3	47,4
M16	17	50	3	33,9
M16*	17	64	3	64
M18	20	56	4	60
M20	22	60	4	76
M24	26	72	5	105
M30	33	92	6	273
M36	39	110	8	625

* out-of-standard measurement

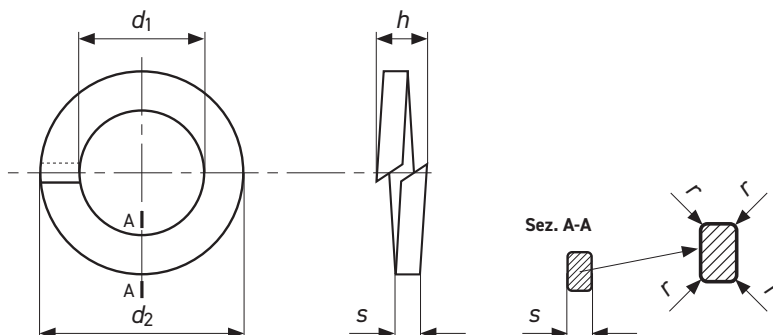
For stainless steel A2 products, multiply the weight values for 1,01, A4 by 1,013.

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

 Weight for 1000 pcs

HELICAL SPRING WASHERS (GROWER)

ISO UNI DIN
- 1751 127 B



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10270	ACCORDING TO UNI EN 10270
CLASS	430-530 HV	A2 A4
TOLLERANCES	ACCORDING TO DIN 127	ACCORDING TO DIN 127
AVAILABLE TREATMENT	Black - White zinc plated or Yellow zinc plated with dehydrogenation according to RoHS Other coatings on request	

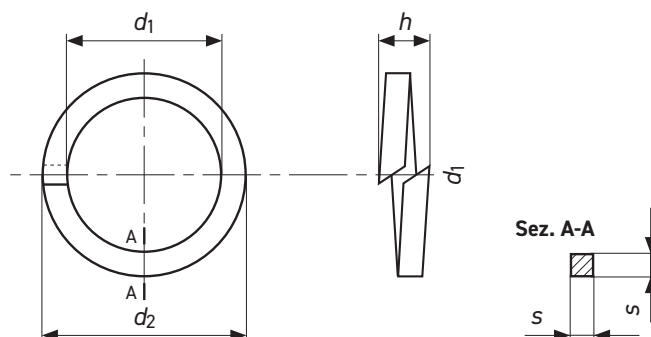
d	d ₁	d ₂	h min	s	 Kg
M 2	2,2	4	1	0,5	0,033
M 2,5	2,5	4,5	1,2	0,6	0,053
M 3	3,2	5,8	1,6	0,8	0,112
M 4	4,3	7,3	1,8	0,9	0,18
M 5	5,3	8,9	2,4	1,2	0,36
M 6	6,4	11,4	3,2	1,6	0,83
M 7	7,1	12,8	3,2	1,6	0,93
M 8	8,4	14,4	4	2	1,60
M 10	10,5	17,5	4,4	2,2	2,53
M 12	13	21	5	2,5	3,82
M 14	15	24	6	3	6,01
M 16	17	27	7	3,5	8,91
M 18	19	29	7	3,5	9,73
M 20	21	33	8	4	15,2
M 22	23	35	8	4	16,5
M 24	25	39	10	5	26,2
M 27	28	42	10	5	28,7
M 30	31	47	12	6	44,3
M 33	34	54	12	6	63,0
M 36	37	57	12	6	67,3
M 39	40	61	12	6	71,7
M 42	43	67	14	7	111
M45	46	70	14	7	117

 **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.**

SQUARE SECTION HELICAL SPRING WASHERS

ISO UNI DIN
- - 7980



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10270	ACCORDING TO UNI EN 10270
CLASS	430-530 HV	A2 A4
TOLLERANCES	ACCORDING TO DIN 7980	ACCORDING TO DIN 7980
AVAILABLE TREATMENT	Black - White zinc plated or Yellow zinc plated with dehydrogenation according to RoHS Other coatings on request	

d	d ₁ min	d ₂ max	h min	s	 Kg
M 3	3,1	5,6	2	1	0,105
M 4	4,1	7	2,4	1,2	0,195
M 5	5,1	8,8	3,2	1,6	0,37
M 6	6,1	9,9	3,2	1,6	0,425
M 8	8,1	12,7	4	2	1,05
M 10	10,2	16	5	2,5	1,96
M 12	12,2	18	5	2,5	2,28
M 14	14,2	21,1	6	3	3,80
M 16	16,2	24,4	7	3,5	5,94
M 18	18,2	26,4	7	3,5	6,6
M 20	20,2	30,6	9	4,5	12,3
M 22	22,5	32,9	9	4,5	13,6
M 24	24,5	35,9	10	5	18,1
M 27	27,5	38,9	10	5	20,6
M 30	30,5	44,1	12	6	32
M 33	33,5	47,1	12	6	35
M 36	36,5	52,2	14	7	52,5

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.**

SERRATED SPRING WASHERS

ISO

-

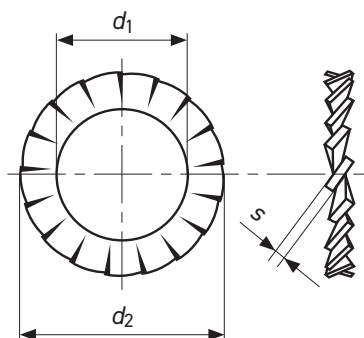
UNI

8842 A-J-AJ

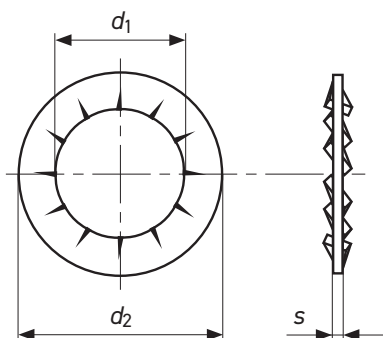
DIN

6798 A-J-AJ

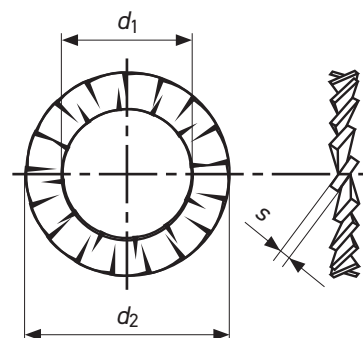
SHAPE A



SHAPE J



SHAPE AJ



MATERIAL

SPRING STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO UNI EN 10132-4

ACCORDING TO UNI EN 10132-4

CLASS

350-425 HV

A2

A4

TOLLERANCES

ACCORDING TO DIN 6798

ACCORDING TO DIN 6798

AVAILABLE TREATMENT

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

d	d ₁	d ₂	s	 Kg
M 2	2,20	4,50	0,30	0,03
M 2,5	2,70	5,50	0,40	0,05
M 3	3,20	6,00	0,40	0,06
M 4	4,30	8,00	0,50	0,14
M 5	5,30	10,00	0,60	0,28
M 6	6,40	11,00	0,70	0,36
M 7	7,40	12,50	0,80	0,5
M 8	8,40	15,00	0,80	0,8
M 10	10,50	18,00	0,90	1,25
M 12	12,50	20,50	1,00	1,7
M 14	14,50	24,00	1,00	2,4
M 16	16,50	26,00	1,20	3
M 18	19,00	30,00	1,40	5
M 20	21,00	33,00	1,40	6
M 22	23,00	36,00	1,50	7,5
M 24	25,00	38,00	1,50	8
M 27	28,00	44,00	1,60	12
M 30	31,00	48,00	1,60	14

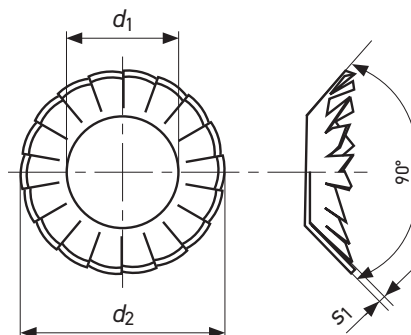
 **Weight for 1000 pcs**

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.**

CONICAL SERRATED SPRING WASHERS

ISO UNI DIN
- 8842 V 6798 V

SHAPE V



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10132-4	ACCORDING TO UNI EN 10132-4
CLASS	350-425 HV	A2
TOLLERANCES	ACCORDING TO DIN 6798	ACCORDING TO DIN 6798
AVAILABLE TREATMENT	Black - White zinc plated or Yellow zinc plated with dehydrogenation according to RoHS Other coatings on request	

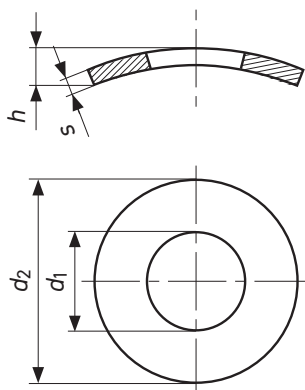
d	d ₁ H13	d ₂ H13	s ₁	 Kg
M 3	3,2	6,0	0,2	0,040
M 3,5	3,7	7,0	0,25	0,075
M 4	4,3	8,0	0,25	0,1
M 5	5,3	9,8	0,3	0,2
M 6	6,4	11,8	0,4	0,3
M 8	8,4	15,3	0,4	0,5
M 10	10,5	19,0	0,5	1
M 12	12,5	23,0	0,5	1,5
M 14	14,5	26,2	0,5	2
M 16	16,5	30,2	0,6	2,4

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.**

WAVE SPRING WASHERS TYPE A

ISO UNI DIN
- 8840 A 137 A



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10132-4	ACCORDING TO UNI EN 10132-4
CLASS	430-530 HV	A2 A4
TOLLERANCES	ACCORDING TO DIN 137	ACCORDING TO DIN 137
AVAILABLE TREATMENT	Black - White zinc plated or Yellow zinc plated with dehydrogenation according to RoHS Other coatings on request	

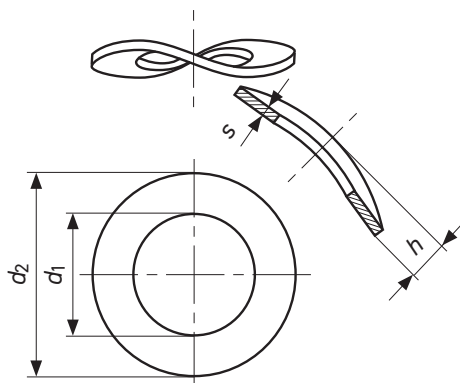
d	d ₁ min	d ₂ max	h min	s	 Kg
M 2	2,2	4,5	0,5	0,3	0,028
M 2,5	2,8	5,5	0,55	0,3	0,041
M 3	3,2	6	0,65	0,4	0,063
M 3,5	3,7	7	0,7	0,4	0,088
M 4	4,3	8	0,8	0,5	0,140
M 5	5,3	10	0,9	0,5	0,222
M 6	6,4	11	1,1	0,5	0,247
M 8	8,4	15	1,7	0,5	0,476
M 10	10,5	18	2	0,8	1,050

 **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.**

WAVE SPRING WASHERS TYPE B

ISO
-
UNI
8840 B
DIN
137 b



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10132-4	ACCORDING TO UNI EN 10132-4
CLASS	430-530 HV	A2 A4
TOLLERANCES	ACCORDING TO DIN 137	ACCORDING TO DIN 137
AVAILABLE TREATMENT	Black - White zinc plated or Yellow zinc plated with dehydrogenation according to RoHS Other coatings on request	

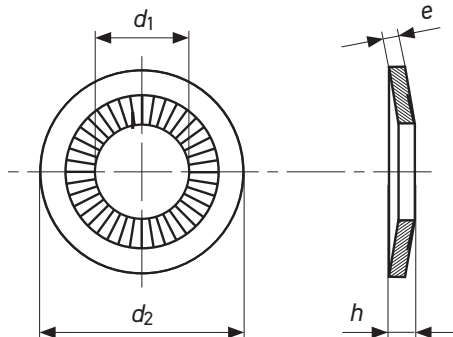
d	d ₁ min	d ₂ max	h min	s	 Kg
M 3	3,2	8	0,8	0,5	0,166
M 3,5	3,7	8	0,9	0,5	0,154
M 4	4,3	9	1	0,5	0,193
M 5	5,3	11	1,3	0,5	0,266
M 6	6,4	12	1,5	0,8	0,318
M 8	8,4	17	1,7	0,8	0,760
M 10	10,5	21	2,1	1	2,040
M 12	13	24	2,5	1,2	3,100
M 14	15	28	3	1,6	5,500
M 16	17	30	3,2	1,6	6,000
M 18	19	34	3,3	1,6	7,800
M 20	21	36	3,7	1,6	8,430
M 22	23	40	3,9	1,8	11,900
M 24	25	44	4,1	1,8	14,500
M 27	28	50	4,7	2	21,100
M 30	31	56	5	2,2	29,500

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.**

SPRING WASHERS "CONTACT"

NFE
25-511



MATERIAL

SPRING STEEL

MECHANICAL PROPERTIES

ACCORDING TO UNI EN 10132-4

CLASS

420-510 HV

TOLLERANCES

ACCORDING TO DIN 2093

AVAILABLE TREATMENT

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

NARROW

d	d ₁	d ₂	e	h max	 Kg
M 3	3,1	6	0,5	0,9	0,06
M 4	4,1	8	0,8	1,2	0,19
M 5	5,1	10	1	1,5	0,39
M 6	6,1	12	1,2	1,85	0,69
M 8	8,2	16	1,4	2,2	1,44
M 10	10,2	20	1,6	2,6	2,60
M 12	12,4	24	1,8	2,9	4,13

MEDIUM

d	d ₁	d ₂	e	h max	 Kg
M 3	3,1	8	0,6	1	0,18
M 4	4,1	10	0,9	1,4	0,44
M 5	5,1	12	1,1	1,8	0,72
M 6	6,1	14	1,3	2,1	1,18
M 8	8,2	18	1,4	2,35	2,07
M 10	10,2	22	1,6	2,75	3,39
M 12	12,4	27	1,8	3,1	5,87
M 14	14,4	30	2,4	3,7	9,35
M 16	16,4	32	2,8	4,1	12,00
M 20	20,5	40	3,2	4,9	21,07

LARGE

d	d ₁	d ₂	e	h max	 Kg
M 3	3,1	10	0,6	1,2	0,33
M 4	4,1	14	1	1,8	1,04
M 5	5,1	16	1,2	2,1	1,58
M 6	6,1	18	1,4	2,5	2,34
M 8	8,2	22	1,6	2,7	3,86
M 10	10,2	27	1,8	3,1	6,48
M 12	12,4	32	2	3,6	10,10

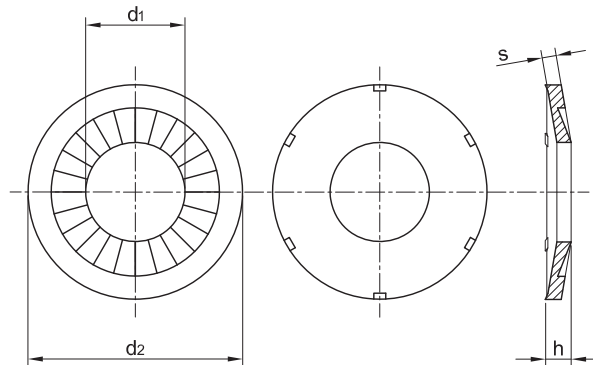
 **Weight for 1000 pcs**

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

SPRING WASHERS "CONTACT" TOOTHED

ISO UNI DIN

- - -



MATERIAL

SPRING STEEL

MECHANICAL PROPERTIES

ACCORDING TO UNI EN 10132-4

CLASS

420-510 HV

TOLLERANCES

ACCORDING TO DIN 2093

AVAILABLE TREATMENT

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

NARROW

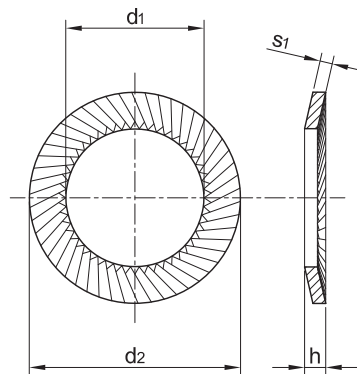
d	d_1	d_2	s	h_{max}	Teeth N.	 Kg
M 3	3,1	6	0,5	0,9	6	0,08
M 4	4,1	8	0,8	1,2	6	0,20
M 5	5,1	10	1	1,5	6	0,41
M 6	6,1	12	1,2	1,8	6	0,71
M 8	8,2	16	1,4	2,4	6	1,50
M 10	10,2	20	1,6	2,6	6	2,68
M 12	12,4	24	1,6	2,6	6	3,85

 Weight for 1000 pcs

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

SERRATED SPRING WASHERS "SCHNORR" TYPE

ISO UNI DIN



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10132-4	ACCORDING TO UNI EN 10132-4
CLASS	430-530 HV	A2
TOLLERANCES	ACCORDING TO DIN 2093	ACCORDING TO DIN 137
AVAILABLE TREATMENT	Black - White zinc plated or Yellow zinc plated with dehydrogenation according to RoHS Other coatings on request	

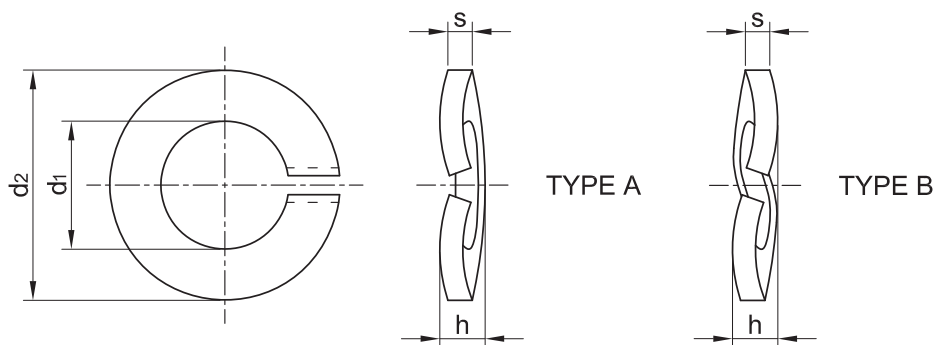
d	d ₁	d ₂	s ₁	h max	 Kg
M 3	3,2	5,5	0,45	0,9	0,049
M 4	4,3	7,0	0,5	1	0,085
M 5	5,3	9,0	0,6	1,1	0,167
M 6	6,4	10,0	0,7	1,2	0,200
M 8	8,4	13,0	0,8	1,4	0,392
M 10	10,5	16,0	1,0	1,6	0,750
M 12	13,0	18,0	1,1	1,7	0,879
M 14	15,0	22,0	1,2	2	1,400
M 16	17,0	24,0	1,3	2,1	2,000
M 18	19,0	27,0	1,5	2,3	2,970
M 20	21,0	30,0	1,5	2,4	3,742
M 22	23,0	33,0	1,5	2,5	4,507
M 24	25,6	36,0	1,8	2,7	5,910
M 27	28,6	39,0	2,0	2,9	-
M 30	31,6	45,0	2,0	3,2	-

 Weight for 1000 pcs

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

SQUARE SECTION HELICAL SPRING WASHERS

ISO
-
UNI
8839
DIN
128



MATERIAL

SPRING STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO UNI EN 10270

ACCORDING TO UNI EN 10270

CLASS

430-530 HV

A2

A4

TOLLERANCES

ACCORDING TO DIN 7980

ACCORDING TO DIN 7980

AVAILABLE TREATMENT

White zinc plated according to RoHS
Other coatings on request

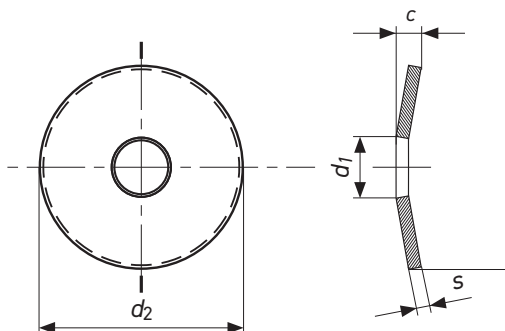
d	d ₁ min	d ₂ max	h min	s	 Kg
M 2	2,1	4,4	0,7	0,4	0,04
M 2,3	2,4	4,9	1	0,5	
M 2,5	2,6	5,1	0,9	0,5	0,06
M 3	3,1	6,2	1,1	0,6	0,09
M 3,5	3,6	6,7	1,1	0,6	0,1
M 4	4,1	7,6	1,2	0,7	0,15
M 5	5,1	9,2	1,5	0,9	0,3
M 6	6,1	11,8	2	1,2	0,7
M 8	8,1	14,8	2,45	1,5	1,3
M 10	10,2	18,1	2,85	1,7	2,1
M 12	12,2	21,1	3,35	1,95	3,2
M 14	14,2	24,1	3,9	2,25	4,8
M 16	16,2	27,4	4,5	2,65	7
M 18	18,2	29,4	4,5	2,65	7,8
M 20	20,2	33,6	5,1	3	12,2
M 22	22,5	35,9	5,1	3	13,3
M 24	24,5	40	6,5	3,8	21,5
M 27	27,5	43	6,5	3,8	23,7
M 30	30,5	48,2	9,5	5,8	42,5
M 33	33,5	55,2	10,4	5,8	
M 36	36,5	58,2	10,3	5,8	68

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.**

DISC SPRINGS

ISO UNI DIN
- - 2093



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10132-4	ACCORDING TO UNI EN 10132-4
CLASS	430-530 HV	A2
TOLLERANCES	ACCORDING TO DIN 2093	ACCORDING TO DIN 137
AVAILABLE TREATMENT	Black - Other coatings on request	

 Weight for 1000 pcs

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

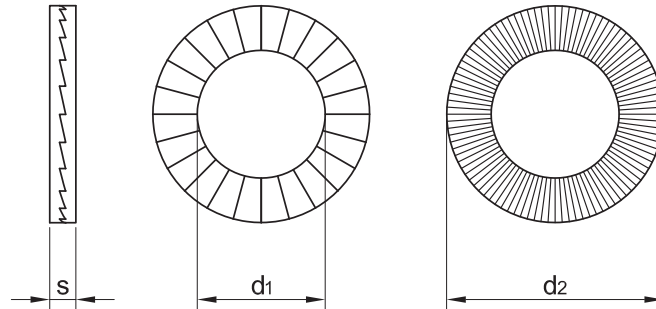
d ₂	d ₁	s	c	d ₂	d ₁	s	c	d ₂	d ₁	s	h	d ₂	d ₁	s	c
8	3,2	0,3	0,25	18	9,2	1,0	0,4	40	14,3	2,0	1,05	80	31	3,0	2,5
	3,2	0,4	0,2		8,2	0,6	0,7		16,3	1,5	1,30		31	4,0	2,2
	4,2	0,3	0,25		8,2	0,7	,65		16,3	2,0	1,10		36	3,0	
	4,2	0,4	0,2		8,2	0,8	0,60		18,3	2,0	1,15		36	4,0	
10	3,2	0,3	0,35	20	8,2	0,9	0,55	40	20,4	1,5	1,15	90	41	3,0	2,3
	3,2	0,4	0,3		10,2	0,8	0,55		20,4	2,0	1,10		41	4,0	2,2
	3,2	0,5	0,25		10,2	0,9	0,55		20,4	2,25	0,90		46	2,5	3,2
	4,2	0,4	0,3		10,2	1,0	0,55		20,4	2,5	0,90		46	5,0	2,0
12	4,2	0,5	0,25	22,5	10,2	1,1	0,45	45	22,4	1,75	1,30	100	41	4,0	3,2
	5,2	0,4	0,3		11,2	0,8	0,65		22,4	2,5	1,00		41	5,0	2,75
	5,2	0,5	0,25		11,2	1,25	0,50		18,4	1,5	1,80		51	3,5	2,8
	4,2	0,4	0,4		8,2	0,7	0,80		18,4	2,0	1,50		51	4,0	3,0
12,5	4,2	0,5	0,35	23	8,2	0,8	0,75	50	20,4	2,0	1,50	112	51	5,0	2,8
	4,2	0,6	0,4		8,2	0,9	0,70		20,4	2,5	1,35		51	6,0	5,6
	5,2	0,5	0,4		10,2	0,9	0,75		22,4	2,0	1,60		57	3,0	3,9
	5,2	0,6	0,35		10,2	1,0	0,70		22,4	2,5	1,40		57	4,0	3,75
14	6,2	0,5	0,35	25	12,2	1,25	0,60	56	25,4	2,0	1,40	125	57	6,0	5,6
	6,2	0,6	0,35		12,2	0,9	0,70		25,4	2,5	1,40		41	4,0	3,75
	6,2	0,7	0,3		12,2	1,5	0,55		25,4	3,0	1,10		51	4,0	3,8
	7,2	0,5	0,4		10,2	0,8	0,95		28,5	2,0	1,60		51	5,0	4,7
15	7,2	0,8	0,3	28	10,2	1,2	0,95	60	28,5	3,0	1,30	140	51	6,0	5,6
	5,2	0,4	0,55		10,2	1,25	0,90		20,5	2,0	2,10		61	5,0	4,7
	5,2	0,5	0,5		12,2	1,0	0,95		20,5	2,5	1,80		61	6,0	5,6
	5,2	0,6	0,45		12,2	1,25	0,85		25,5	2,5	1,90		61	8,0	7,6
16	5,2	0,7	0,4	31,5	12,5	1,5	0,75	63	25,5	3,0	1,65	150	64	3,5	4,5
	6,2	0,5	0,5		14,2	1,0	0,80		30,5	3,0	1,70		64	5,0	4,7
	6,2	0,6	0,45		14,2	1,25	0,85		30,5	3,5	1,50		64	6,0	5,6
	6,2	0,7	0,4		14,2	1,5	0,65		31	2,5	1,75		64	7,0	6,65
18	8,2	0,7	0,4	34	16,3	1,25	0,90	70	31	3,5	1,40	80	64	8,0	7,5
	8,2	0,8	0,4		16,3	1,75	0,70		25,5	2,0			72	3,8	4,9
	8,2	0,8	0,4		12,3	1,0	1,10		30,5	2,5	2,40		72	5,0	4,7
	8,2	0,6	0,45		12,3	1,25	1,10		30,5	3,0	2,10		72	8,0	7,5
18	8,2	0,9	0,35	35,5	12,3	1,5	1,00	71	35,5	3,0	2,10	80	61	5,0	4,8
	6,2	0,4	0,6		14,3	1,25	1,15		35,5	3,5			61	6,0	5,8
	6,2	0,5	0,6		14,3	1,5	1,05		35,5	4,0			71	6,0	5,7
	6,2	0,6	0,6		16,3	1,5	1,05		40,5	4,0			71	8,0	7,5
18	6,2	0,7	0,55	40	16,3	2,0	0,85	80	40,5	5,0		80	81	8,0	7,5
	6,2	0,8	0,5		18,3	1,25	1,00		36	2,0	2,60		81	10,0	9,3
	8,2	0,7	0,55		18,3	2,0	0,80		36	2,5	2,00				
	8,2	0,8	0,5		14,3	1,25	1,40		36	4,0	1,60				
	9,2	0,7	0,5		14,3	1,5	1,25		31	2,5	2,80				

 Weight for 1000 pcs

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

BOLT SECURING WASHERS

ISO UNI DIN
- - 25201



MATERIAL

STEEL

STAINLESS STEEL

MECHANICAL PROPERTIES

ACCORDING TO UNI EN 10083

ACCORDING TO UNI EN 10083

CLASS

465-550 HV

A4

AVAILABLE TREATMENT

Geomet - Other coatings on request

d	d ₁ min-max	d ₂ max-max	s min-max	 Kg
M 3	3,30-3,50	6,80-7,20	1,55-2,05	0,34
M 3,5	3,80-4,00	7,40-7,80	1,55-2,05	0,4
M 3,5	3,80-4,00	8,80-9,20	1,55-2,05	0,6
M 4	4,30-4,50	7,40-7,80	1,55-2,05	0,4
M 4	4,30-4,50	8,80-9,20	1,55-2,05	0,6
M 5	5,30-5,50	8,80-9,20	1,55-2,05	0,5
M 5	5,30-5,50	10,60-11,00	1,55-2,05	1,1
M 6	6,40-6,60	10,60-11,00	1,55-2,05	0,7
M 6	6,40-6,60	13,30-13,70	2,25-2,75	2
M 8	8,60-8,80	13,30-13,70	2,25-2,75	1,5
M 8	8,60-8,80	16,40-16,80	2,25-2,75	2,9
M 10	10,50-10,90	16,40-16,80	2,25-2,75	2,3
M 10	10,50-10,90	20,80-21,20	2,25-2,75	4,65
M 12	12,80-13,20	19,30-19,70	2,25-2,75	2,9
M 12	12,80-13,20	25,20-25,60	3,15-3,65	9,1
M 14	15,00-15,40	22,80-23,20	3,15-3,65	6,2
M 14	15,00-15,40	30,50-30,90	3,15-3,65	14
M 16	16,80-17,20	25,20-25,60	3,15-3,65	6,6
M 16	16,80-17,20	30,50-30,90	3,15-3,65	12,7
M 18	19,30-19,70	28,80-29,20	3,15-3,65	8,5
M 18	19,30-19,70	34,30-34,70	3,15-3,65	15,5
M 20	21,20-21,60	30,50-30,90	3,15-3,65	9,3
M 20	21,20-21,60	38,80-39,20	3,15-3,65	20,4
M 22	23,20-23,60	34,30-34,70	3,15-3,65	12,90
M 22	23,20-23,60	41,80-42,20	4,35-4,85	33,1
M 24	25,10-25,50	38,80-39,20	3,15-3,65	16,8
M 24	25,10-25,50	48,30-48,70	4,35-4,85	45,1
M 27	28,20-28,60	41,70-42,30	5,55-6,05	32,70
M 27	28,20-28,60	48,20-48,80	5,55-6,05	52,90

 Weight for 1000 pcs

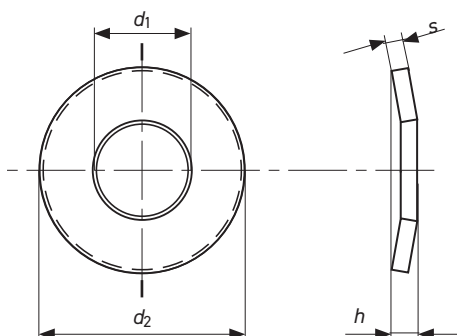
(*) The standard ISO is different from UNI 6592 and DIN 125A for the surface hardness (ISO 7089)

For product weights in stainless steel A2 multiply the values by 1.01, A4 by 1.013. For brass product weights multiply the values by 1.083.

d	d₁ min-max	d₂ max-max	S min-max	 Kg
M 30	31,20-31,60	46,70-47,30	5,55-6,05	41,1
M 30	31,20-31,60	58,20-58,80	6,35-6,85	89,6
M 33	34,20-34,60	48,20-48,80	5,55-6,05	40,00
M 33	34,20-34,60	58,20-58,80	6,35-6,85	83,10
M 36	37,20-37,60	54,70-55,30	6,35-6,85	55,9
M 36	37,20-37,60	62,70-63,30	6,35-6,85	91,5
M 39	40,20-40,60	58,20-58,80	6,35-6,85	62,8
M 42	43,00-43,40	62,70-63,30	6,35-6,85	74,7
1/4"	7,10-7,30	11,30-11,70	1,55-2,05	0,8
1/4"	7,10-7,30	13,30-13,70	2,25-2,75	1,8
3/8"	10,20-10,40	16,40-16,80	2,25-2,75	2,3
3/8"	10,20-10,40	20,80-21,20	2,25-2,75	4,7
7/16"	11,20-11,60	18,30-18,70	2,25-2,75	2,9
1/2"	13,30-13,70	19,30-19,70	2,25-2,75	2,7
1/2"	13,30-13,70	25,20-25,60	3,15-3,65	9
3/4"	19,80-20,20	30,50-30,90	3,15-3,65	10,2
3/4"	19,80-20,20	38,80-39,20	3,15-3,65	22
1"	27,70-28,10	38,80-39,20	3,15-3,65	15,3
1"	27,70-28,10	48,30-48,70	4,35-4,85	42

CONICAL SPRING WASHERS

ISO UNI DIN
- - 6796



MATERIAL	SPRING STEEL	STAINLESS STEEL
MECHANICAL PROPERTIES	ACCORDING TO UNI EN 10270	
CLASS	430-530 HV	A2-70 A4-70
TOLLERANCES	ACCORDING TO DIN 4759-3	ACCORDING TO DIN 4759-3
AVAILABLE TREATMENT	White zinc plated according to RoHS Other coatings on request	

d	d ₁ min	d ₂ max	h max	s	 Kg
M 2	2,2	5	0,6	0,4	0,05
M 2,5	2,7	6	0,72	0,5	0,09
M 3	3,2	7	0,85	0,6	0,14
M 3,5	3,7	8	1,06	0,8	0,25
M 4	4,3	9	1,3	1	0,38
M 5	5,3	11	1,55	1,2	0,69
M 6	6,4	14	2	1,5	1,43
M 8	8,4	18	2,6	2	3,13
M 10	10,5	23	3,2	2,5	6,45
M 12	13	29	3,95	3	12,4
M 14	15	35	4,65	3,5	21,6
M 16	17	39	5,25	4	30,4
M 18	19	42	5,8	4,5	38,9
M 20	21	45	6,4	5	48,8
M 22	23	49	7,05	5,5	63,5
M 24	25	56	7,75	6	92,9
M 27	28	60	8,35	6,5	113
M 30	31	70	9,2	7	170

 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.**