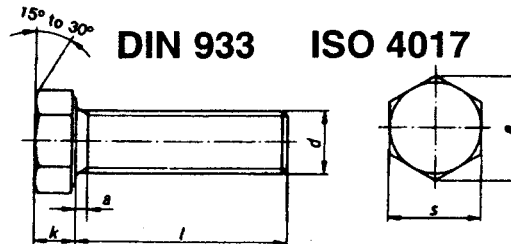




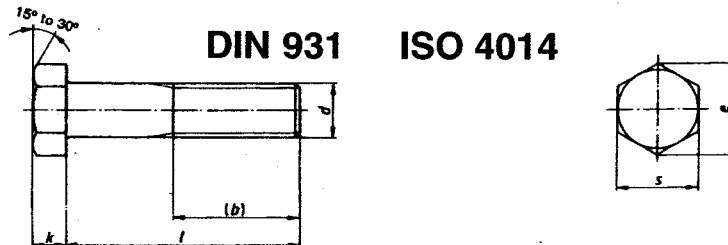
<u>DESCRIPTION</u>	<u>PAGE</u>
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HEX HEAD CAP SCREWS FULL THREAD



Ø d	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 24
A	1.5	2.1	2.4	3	3.75	4.5	5.25	6	6	7.5	7.5	9
e (min)	6.01	7.66	8.79	11.05	14.38	18.9	21.1	24.49	26.76	30.14	33.53	39.98
k (min)	1.88	2.68	3.35	3.85	5.15	6.22	7.32	8.62	9.82	11.28	12.28	14.78
S	5.5	7	8	10	13	17	19	22	24	27	30	36
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	3

HEX HEAD CAP SCREWS PARTIAL THREAD



D	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24
b ≤ 125 I	16	18	22	26	30	34	38	42	46	50	54
b > 125	22	24	28	32	36	40	44	48	52	56	60
S	8	10	13	17	19	22	24	27	30	34	36
k (min)	3.35	3.85	5.15	6.22	7.32	8.62	9.82	11.28	12.28	13.78	14.78
Pitch	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
E	8.79	11.05	14.38	18.9	21.1	24.49	26.75	30.14	33.53	35.72	39.98



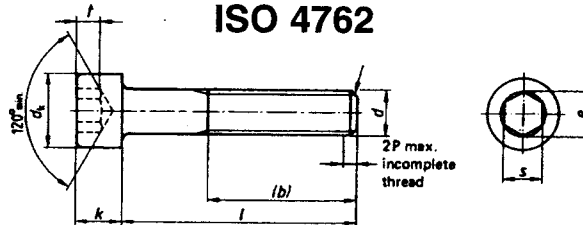
**Weights of Standard Size Hex Caps in Kilograms
per 1000 Pieces**

		d = Diameter									
		5	6	8	10	12	14	16	18	20	24
L = L E N G T H	30	5.64	8.06	16.1							
	35	6.42	9.13	18.2	32						
	40	7.2	10.2	20.3	35	49.1					
	45	7.98	11.3	22.2	38	53.6	75.9	99			
	50	8.76	12.3	24.2	41.1	58.1	82	107			
	55		13.4	25.8	43.8	62.6	88.1	115			
	60	10.30	4.4	27.8	46.9	67	94.1	123	161	207	
	65		15.5	29.8	50	70.3	98.8	131		219	
	70		16.5	31.8	53.1	74.7	105	139	181	231	356
	80		18.6	35.7	59.3	83.6	117	155	200	255	392
	90		20.8	39.6	65.5	92.4	127	171	220	279	428
	100		23	43.6	71.7	101	139	186	240	303	464
	110			47.5	83.9	109	151	202	260	327	500
	120			51.4	90	118	164	218	280	351	535
	130			55.3	96.2	127	174	230	296	374	560
	140			59.2	102	136	185	246	316	398	595
	150			63.1	108	145	199	262	336	422	630
160							278		446		
180							310		494		
200							342		544		

1 Kilogram is approximately 2.2 Pounds.

HEX SOCKET HEAD CAP SCREWS

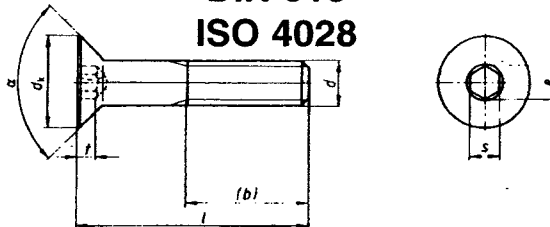
DIN 912 ISO 4762



Ø d	M 1.6	M 2	M 2.5	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20
dk (min)	2.86	3.62	4.32	5.32	6.78	8.28	9.78	12.73	15.73	17.73	20.67	23.67	29.67
e	1.73	1.73	2.3	2.87	3.44	4.58	5.72	6.86	9.15	11.43	13.72	16	19.44
k (min)	1.46	1.86	2.36	2.86	3.82	4.82	5.7	7.64	9.64	11.57	13.57	15.57	19.48
s (nominal dimension)	1.5	1.5	2	2.5	3	4	5	6	8	10	12	14	17
b	15	16	17	18	20	22	24	28	32	36	40	44	52
t (min)	0.7	1	1.1	1.3	2	2.5	3	4	5	6	7	8	10

FLAT SOCKET CAP SCREWS

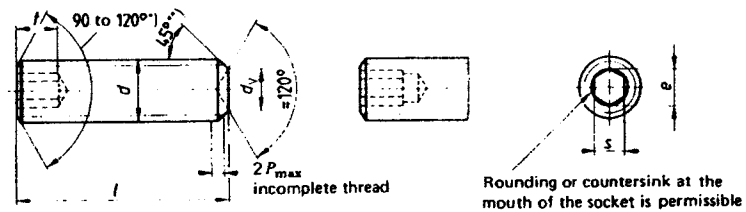
DIN 915 ISO 4028



d	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 16
e	2.3	2.9	3.5	4.7	5.8	7	9.4	11.7
t	1.7	2.3	2.8	3.3	4.4	5.5	6.5	7.5
s	2	2.5	3	4	5	6	8	10
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2
dk (nominal dimension)	6	8	10	12	16	20	24	30

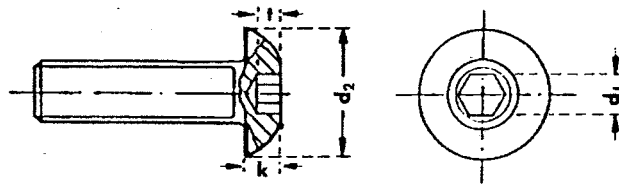
HEX SOCKET SET SCREWS WITH CUP POINT

DIN 916
ISO 4029



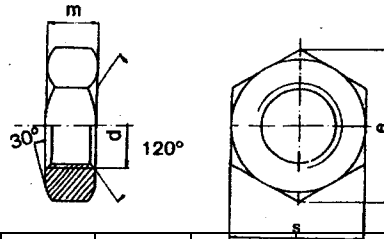
d	M 3	M 4	M 5	M 6	M 8	M 10	M 12
t	2	2.5	3	3.5	5	6	8
dv	1.4	2	2.5	3	5	6	8
s	1.5	2	2.5	3	4	5	6
e	1.73	2.3	2.87	3.44	4.58	5.72	6.86

BUTTON SOCKET HEAD SCREWS ISO 8380



d1	M 3	M 4	M 5	M 6	M 8
d2 (max)t	5.7	7.6	9.5	10.5	14
k (max)	1.65	2.2	2.75	3.3	4.4
t	1.04	1.3	1.56	2.08	2.60

**HEX NUTS
DIN 934
ISO 4032**

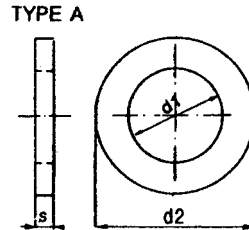


diameter	m	s	e	Box Quantity	Weight per 1000 Pcs in Kg
M 2	1.6	4	4.38	500	0.142
M 2.5	2	5	5.51	500	0.28
M 3	2.4	5.5	6.08	200	0.384
M 4	3.2	7	7.74	200	0.812
M 5	4	8	8.87	200	1.23
M 6	5	10	11.05	200	2.5
M 7	5.5	11	12.12	200	3.12
M 8	6.5	13	14.38	200	5.2
M 10	8	17	18.9	200	11.6
M 12	10	19	21.1	100	17.3
M 14	11	22	24.49	100	25
M 16	13	24	26.75	50	33.3
M 18	15	27	30.14	50	49.4
M 20	16	30	33.53	50	64.4
M 22	18	32	35.72	25	79
M 24	19	36	39.98	25	110
M 27	22	41	45.63	10	165
M 30	24	46	51.28	10	223
M 33	26	50	55.8	10	288
M 36	29	55	61.31	10	393
M 39	31	60	66.96	5	502

1 Kilogram is approximately 2.2 Pounds



**REGULAR FLAT WASHERS
DIN 125
ISO 7089**

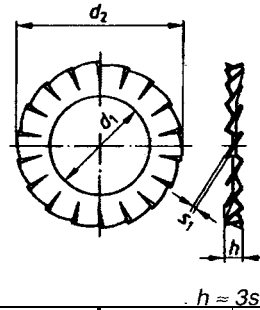


Diameter	Clearance Hole Diameter d1	Outside Diameter d2	S (nominal)	Box Quantity	Weight per 1000 Pcs in Kg
M 2	2.2	4.7	0.3	500	0.037
M 2.5	2.7	5.7	0.5	500	0.088
M 3	3.2	6.64	0.5	200	0.119
M 4	4.3	8.64	0.8	200	0.308
M 5	5.3	9.64	1	200	0.443
M 6	6.4	11.57	1.6	200	1.02
M 8	8.4	15.57	1.6	200	1.83
M 10	10.5	19.48	2	200	3.57
M 12	13	23.48	2.5	100	6.27
M 14	15	27.48	2.5	100	8.62
M 16	17	29.48	3	50	11.3
M 18	19	33.38	3	50	14.7
M 20	21	36.38	3	50	17.2
M 22	23	38.38	3	25	18.3
M 24	25	43.38	4	25	32.3
M 27	28	49.38	4	10	42.3
M 30	31	55.86	4	10	53.6

1 Kilogram is approximately 2.2 Pounds.



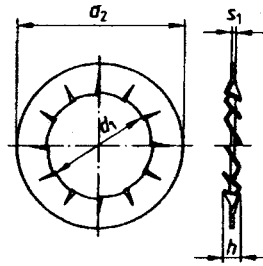
**EXTERNAL TOOTH LOCK WASHERS
DIN 6798
TYPE A**



Diameter d1	d2 (nominal size)	S1	Number of Teeth	Box Quantity	Weight per 1000 Pcs in Kg
M 2	4.5	0.3	9	500	0.03
M 2.5	5.5	0.4	9	500	0.045
M 3	6	0.4	9	200	0.06
M 4	8	0.5	11	200	0.14
M 5	10	0.6	11	200	0.28
M 6	11	0.7	12	200	0.36
M 8	15	0.8	14	200	0.8
M 10	18	0.9	16	200	1.25
M 12	20.5	1	16	100	1.6
M 14	24	1	18	100	2.3
M 16	26	1.2	18	50	2.9
M 18	30	1.4	18	50	5
M 20	33	1.4	20	50	6
M 22	36	1.5	20	25	7.5
M 24	38	1.5	20	25	8

1 Kilogram is approximately 2.2 Pounds.

**INTERNAL TOOTH LOCK WASHERS
DIN 6798
TYPE J**



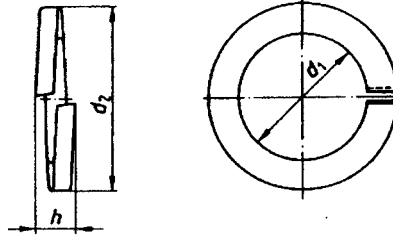
$h \approx 3s_1$

Diameter d1	d2 (nominal size)	S1	Number of Teeth	Box Quantity	Weight per 1000 Pcs in Kg
M 2.5	5.5	0.4	7	500	0.045
M 3	6	0.4	7	200	0.06
M 4	8	0.5	8	200	0.14
M 5	10	0.6	8	200	0.28
M 6	11	0.7	9	200	0.36
M 8	15	0.8	10	200	0.8
M 10	18	0.9	12	200	1.25
M 12	20.5	1	12	100	1.6
M 14	24	1	14	100	2.3
M 16	26	1.2	14	50	2.9
M 18	30	1.4	14	50	5
M 20	33	1.4	16	50	6

1 Kilogram is approximately 2.2 Pounds.



**REGULAR SPLIT LOCK WASHERS
DIN 127**



Diameter	d1 (min)	D2 (max)	h (min)	Box Quantity	Weight per 1000 Pcs in Kg
M 3	3.1	6.2	1.6	200	0.11
M 4	4.1	7.6	1.8	200	0.18
M 5	5.1	9.2	2.4	200	0.36
M 6	6.1	11.8	3.2	200	0.83
M 8	8.1	14.8	4	200	1.6
M 10	10.2	18.1	4.4	200	2.53
M 12	12.2	24.1	5	100	3.82
M 14	14.2	21.1	6	100	6.01
M 16	16.2	27.4	7	50	8.91
M 18	18.2	29.4	7	50	8.91
M 20	20.2	33.6	8	50	15.2
M 22	22.5	35.9	8	25	16.5
M 24	24.5	40	10	25	26.2
M 27	27.5	43	10	10	27.8
M 30	30.5	48.2	12	10	44.3

1 Kilogram is approximately 2.2 Pounds.