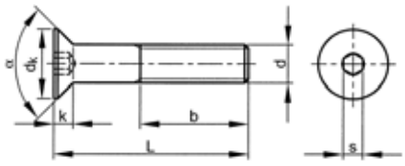
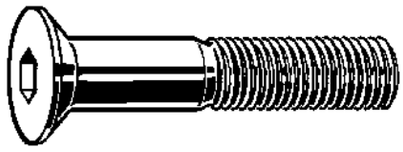
Hexagon socket countersunk head screw



ISO 10642
DIN 7991
NEN 2359
BS 4168-8



Technical data

d	P	b	d_k	k (max.)	α	s	Full thread L ≤
M3	0,5	18	6,72	1,86	90°	2	25
M4	0,7	20	8,96	2,48	90°	2,5	25
M5	0,8	22	11,2	3,2	90°	3	30
M6	1	24	13,44	3,72	90°	4	35
M8	1,25	28	17,92	4,96	90°	5	45
M10	1,5	32	22,4	6,2	90°	6	50
M12	1,75	36	26,88	7,4	90°	8	60
M14	2	40	30,8	8,4	90°	10	65
M16	2	44	33,6	8,8	90°	10	70
M18 (DIN)	2,5	42	33	8	90°	12	60
M20	2,5	52	40,32	10,16	90°	12	90
M24 (DIN)	3	54	39	14	60°	14	90

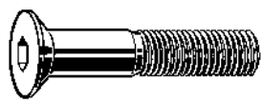
- All dimensions are guide values and may deviate dependent on the manufacturer.
- Due to the unfavourable geometry of the head, these fasteners have reduced load ability.
- When steel fasteners (e.g. 8.8 / 10.9 / 12.9) with reduced load ability need to be marked, the marking symbol for the property class is preceded by the digit '0'. So 8.8 → 08.8 and 10.9 → 010.9 and 12.9 → 012.9.
- For the stainless steel fasteners it is indicated by marking the steel grade only and leaving out the property class 70 (e.g. A2-70 → A2).
- The former and the latter indications can occur side by side for some time.

Article groups

Thread	Driving features	Material	Class	Surface treatment	Packaging	Code	Page
M	hexagon socket	St	08.8/8.8	Zipl	Standard	07470	2-31
M	hexagon socket	St	010.9/10.9		Standard	07400	2-32
M	hexagon socket	St	010.9/10.9	FLZNNC-NC6	Standard	07407	2-33
M	hexagon socket	St.St. A2			Standard	51060	2-33
M	hexagon socket	St.St. A4			Standard	55060	2-34
M	hexagon socket	Al Sopral P40			Standard	45008	2-35
M	hexagon socket	Al Sopral P60			Standard	45208	2-35

07470 Hexagon socket countersunk head screw **D02A**

Thread Metric thread
Material Steel
Class 08.8/8.8
Surface treatment Zinc plated
Packaging Standard



d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M3X6	200	07470.030.006				M6X45	200	07470.060.045
M3X8	200	07470.030.008	M5X8	200	07470.050.008	M6X50	200	07470.060.050
M3X10	200	07470.030.010	M5X10	200	07470.050.010	M6X60	200	07470.060.060
M3X12	200	07470.030.012	M5X12	200	07470.050.012	M6X70	200	07470.060.070
M3X16	200	07470.030.016	M5X16	200	07470.050.016	M6X80	100	07470.060.080
M3X20	200	07470.030.020	M5X20	200	07470.050.020			
M3X25	200	07470.030.025	M5X25	200	07470.050.025	M8X10	200	07470.080.010
M3X30	200	07470.030.030	M5X30	200	07470.050.030	M8X12	200	07470.080.012
M3X40	200	07470.030.040	M5X35	200	07470.050.035	M8X16	200	07470.080.016
M3X50	200	07470.030.050	M5X40	200	07470.050.040	M8X20	200	07470.080.020
			M5X45	200	07470.050.045	M8X25	200	07470.080.025
M4X6	200	07470.040.006	M5X50	200	07470.050.050	M8X30	200	07470.080.030
M4X8	200	07470.040.008	M5X60	200	07470.050.060	M8X35	200	07470.080.035
M4X10	200	07470.040.010	M5X70	200	07470.050.070	M8X40	200	07470.080.040
M4X12	200	07470.040.012				M8X45	200	07470.080.045
M4X16	200	07470.040.016	M6X10	200	07470.060.010	M8X50	200	07470.080.050
M4X20	200	07470.040.020	M6X12	200	07470.060.012	M8X55	200	07470.080.055
M4X25	200	07470.040.025	M6X16	200	07470.060.016	M8X60	200	07470.080.060
M4X30	200	07470.040.030	M6X20	200	07470.060.020	M8X65	200	07470.080.065
M4X35	200	07470.040.035	M6X25	200	07470.060.025	M8X70	200	07470.080.070
M4X40	200	07470.040.040	M6X30	200	07470.060.030	M8X80	200	07470.080.080
M4X50	200	07470.040.050	M6X35	200	07470.060.035			
M4X60	200	07470.040.060	M6X40	200	07470.060.040	M10X16	200	07470.100.016

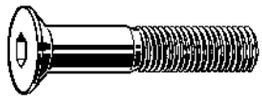
2

07470 Hexagon socket countersunk head screw

d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M10X20	200	07470.100.020	M12X20	100	07470.120.020	M16X45	50	07470.160.045
M10X25	200	07470.100.025	M12X25	100	07470.120.025	M16X50	50	07470.160.050
M10X30	200	07470.100.030	M12X30	100	07470.120.030	M16X55	50	07470.160.055
M10X35	100	07470.100.035	M12X35	100	07470.120.035	M16X60	50	07470.160.060
M10X40	100	07470.100.040	M12X40	100	07470.120.040	M16X70	25	07470.160.070
M10X45	100	07470.100.045	M12X45	100	07470.120.045	M16X80	25	07470.160.080
M10X50	100	07470.100.050	M12X50	100	07470.120.050			
M10X55	100	07470.100.055	M12X55	100	07470.120.055	M20X40	25	07470.200.040
M10X60	100	07470.100.060	M12X60	100	07470.120.060	M20X50	25	07470.200.050
M10X70	100	07470.100.070	M12X70	50	07470.120.070	M20X60	25	07470.200.060
M10X80	100	07470.100.080	M12X80	50	07470.120.080	M20X70	25	07470.200.070
M10X90	100	07470.100.090				M20X80	25	07470.200.080
M10X100	50	07470.100.100	M16X30	50	07470.160.030	M20X100	25	07470.200.100
M10X120	50	07470.100.120	M16X35	50	07470.160.035			
			M16X40	50	07470.160.040			

07400 Hexagon socket countersunk head screw D01A

Thread Metric thread
Material Steel
Class 010.9/10.9
Packaging Standard
ISO ≈10642
DIN ≈7991
NEN ≈2359
BS ≈4168-8



d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M3X5	200	07400.030.005	M6X100	200	07400.060.100	M14X50	25	07400.140.050
M3X6	200	07400.030.006				M14X60	25	07400.140.060
M3X8	200	07400.030.008	M8X10	200	07400.080.010	M14X70	25	07400.140.070
M3X10	200	07400.030.010	M8X12	200	07400.080.012	M14X80	25	07400.140.080
M3X12	200	07400.030.012	M8X16	200	07400.080.016	M14X90	25	07400.140.090
M3X16	200	07400.030.016	M8X20	200	07400.080.020	M14X100	25	07400.140.100
M3X20	200	07400.030.020	M8X22	200	07400.080.022			
M3X25	200	07400.030.025	M8X25	200	07400.080.025	M16X20	50	07400.160.020
M3X30	200	07400.030.030	M8X30	200	07400.080.030	M16X25	50	07400.160.025
M3X40	200	07400.030.040	M8X35	200	07400.080.035	M16X30	50	07400.160.030
M3X50	200	07400.030.050	M8X40	200	07400.080.040	M16X35	50	07400.160.035
			M8X45	200	07400.080.045	M16X40	50	07400.160.040
M4X6	200	07400.040.006	M8X50	200	07400.080.050	M16X45	50	07400.160.045
M4X8	200	07400.040.008	M8X55	200	07400.080.055	M16X50	50	07400.160.050
M4X10	200	07400.040.010	M8X60	100	07400.080.060	M16X55	50	07400.160.055
M4X12	200	07400.040.012	M8X70	100	07400.080.070	M16X60	50	07400.160.060
M4X14	200	07400.040.014	M8X80	100	07400.080.080	M16X70	25	07400.160.070
M4X16	200	07400.040.016	M8X90	100	07400.080.090	M16X80	25	07400.160.080
M4X20	200	07400.040.020	M8X100	100	07400.080.100	M16X90	25	07400.160.090
M4X25	200	07400.040.025				M16X100	25	07400.160.100
M4X30	200	07400.040.030	M10X16	200	07400.100.016	M16X110	25	07400.160.110
M4X35	200	07400.040.035	M10X20	200	07400.100.020	M16X120	25	07400.160.120
M4X40	200	07400.040.040	M10X25	200	07400.100.025	M16X130	25	07400.160.130
M4X50	200	07400.040.050	M10X30	200	07400.100.030	M16X140	25	07400.160.140
M4X60	200	07400.040.060	M10X35	100	07400.100.035	M16X160	25	07400.160.160
M4X70	200	07400.040.070	M10X40	100	07400.100.040			
			M10X45	100	07400.100.045	M18X50	25	07400.180.050
M5X8	200	07400.050.008	M10X50	100	07400.100.050	M18X60	25	07400.180.060
M5X10	200	07400.050.010	M10X55	100	07400.100.055	M18X70	25	07400.180.070
M5X12	200	07400.050.012	M10X60	100	07400.100.060	M18X80	25	07400.180.080
M5X16	200	07400.050.016	M10X65	100	07400.100.065	M18X90	25	07400.180.090
M5X18	200	07400.050.018	M10X70	100	07400.100.070	M18X100	25	07400.180.100
M5X20	200	07400.050.020	M10X75	100	07400.100.075			
M5X22	200	07400.050.022	M10X80	100	07400.100.080	M20X30	10	07400.200.030
M5X25	200	07400.050.025	M10X90	100	07400.100.090	M20X35	10	07400.200.035
M5X30	200	07400.050.030	M10X100	50	07400.100.100	M20X40	10	07400.200.040
M5X35	200	07400.050.035	M10X120	50	07400.100.120	M20X50	10	07400.200.050
M5X40	200	07400.050.040				M20X55	25	07400.200.055
M5X45	200	07400.050.045	M12X20	100	07400.120.020	M20X60	10	07400.200.060
M5X50	200	07400.050.050	M12X25	100	07400.120.025	M20X70	10	07400.200.070
M5X60	200	07400.050.060	M12X30	100	07400.120.030	M20X80	10	07400.200.080
M5X70	200	07400.050.070	M12X35	100	07400.120.035	M20X90	10	07400.200.090
			M12X40	100	07400.120.040	M20X100	10	07400.200.100
M6X8	200	07400.060.008	M12X45	100	07400.120.045	M20X110	10	07400.200.110
M6X10	200	07400.060.010	M12X50	100	07400.120.050	M20X120	10	07400.200.120
M6X12	200	07400.060.012	M12X55	100	07400.120.055	M20X140	10	07400.200.140
M6X14	200	07400.060.014	M12X60	100	07400.120.060	M20X150	10	07400.200.150
M6X16	200	07400.060.016	M12X70	100	07400.120.070	M20X160	10	07400.200.160
M6X18	200	07400.060.018	M12X80	100	07400.120.080	M20X180	10	07400.200.180
M6X20	200	07400.060.020	M12X90	50	07400.120.090	M20X200	10	07400.200.200
M6X25	200	07400.060.025	M12X100	50	07400.120.100			
M6X30	200	07400.060.030	M12X110	50	07400.120.110	M24X50	10	07400.240.050
M6X35	200	07400.060.035	M12X120	50	07400.120.120	M24X60	10	07400.240.060
M6X40	200	07400.060.040	M12X130	50	07400.120.130	M24X70	10	07400.240.070
M6X45	200	07400.060.045	M12X140	50	07400.120.140	M24X80	10	07400.240.080
M6X50	200	07400.060.050				M24X90	10	07400.240.090
M6X55	200	07400.060.055	M14X25	25	07400.140.025	M24X100	10	07400.240.100
M6X60	200	07400.060.060	M14X30	25	07400.140.030	M24X110	10	07400.240.110
M6X70	200	07400.060.070	M14X35	25	07400.140.035	M24X120	10	07400.240.120
M6X80	200	07400.060.080	M14X40	25	07400.140.040	M24X140	10	07400.240.140
M6X90	200	07400.060.090	M14X45	50	07400.140.045	M24X160	10	07400.240.160

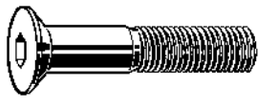
07400 Hexagon socket countersunk head screw

d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M24X180	10	07400.240.180						
M24X200	10	07400.240.200						

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

07407 Hexagon socket countersunk head screw D01A

Thread Metric thread
Material Steel
Class 010.9/10.9
Surface treatment Zinc flake Cr6+ free - ISO 10683 flZnnc
Packaging Standard

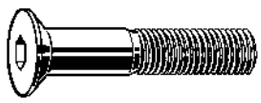


d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M6X16	200	07407.060.016	M10X20	200	07407.100.020	M12X80	100	07407.120.080
M6X20	200	07407.060.020	M10X25	200	07407.100.025			
M6X25	200	07407.060.025	M10X30	200	07407.100.030	M16X25	50	07407.160.025
M6X30	200	07407.060.030	M10X35	200	07407.100.035	M16X30	50	07407.160.030
M6X40	200	07407.060.040	M10X40	200	07407.100.040	M16X40	50	07407.160.040
			M10X50	100	07407.100.050	M16X50	50	07407.160.050
M8X16	200	07407.080.016	M10X60	100	07407.100.060	M16X60	50	07407.160.060
M8X20	200	07407.080.020						
M8X25	200	07407.080.025	M12X30	100	07407.120.030	M20X50	10	07407.200.050
M8X30	200	07407.080.030	M12X40	100	07407.120.040	M20X60	10	07407.200.060
M8X35	200	07407.080.035	M12X50	100	07407.120.050	M20X70	10	07407.200.070
M8X40	200	07407.080.040	M12X60	100	07407.120.060			
			M12X70	100	07407.120.070			

- A ISO 10683 Zinc Flake surface coating eliminates the possibilities of damage which can arise due to hydrogen embrittlement.

51060 Hexagon socket countersunk head screw Q05A

Thread Metric thread
Material Stainless steel A2
Packaging Standard



d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M3X6	200	51060.030.006	M5X60	100	51060.050.060	M8X120 *	50	51060.080.120
M3X8	200	51060.030.008	M5X70 *	100	51060.050.070	M8X130 *	50	51060.080.130
M3X10	200	51060.030.010				M8X140 *	50	51060.080.140
M3X12	200	51060.030.012	M6X8	200	51060.060.008	M8X150 *	50	51060.080.150
M3X14	200	51060.030.014	M6X10	200	51060.060.010	M8X160 *	50	51060.080.160
M3X16	200	51060.030.016	M6X12	200	51060.060.012	M8X180 *	25	51060.080.180
M3X18	200	51060.030.018	M6X14	200	51060.060.014	M8X200 *	25	51060.080.200
M3X20	200	51060.030.020	M6X16	200	51060.060.016			
M3X25	200	51060.030.025	M6X18	200	51060.060.018	M10X16	100	51060.100.016
M3X40	200	51060.030.040	M6X20	200	51060.060.020	M10X18	100	51060.100.018
M3X45 *	500	51060.030.045	M6X22 *	200	51060.060.022	M10X20	100	51060.100.020
M3X50 *	200	51060.030.050	M6X25	200	51060.060.025	M10X25	100	51060.100.025
			M6X30	200	51060.060.030	M10X30	100	51060.100.030
M4X6	200	51060.040.006	M6X35	200	51060.060.035	M10X35	100	51060.100.035
M4X8	200	51060.040.008	M6X40	200	51060.060.040	M10X40	100	51060.100.040
M4X10	200	51060.040.010	M6X45	100	51060.060.045	M10X45	100	51060.100.045
M4X12	200	51060.040.012	M6X50	100	51060.060.050	M10X50	100	51060.100.050
M4X14	200	51060.040.014	M6X55	100	51060.060.055	M10X55	100	51060.100.055
M4X16	200	51060.040.016	M6X60	100	51060.060.060	M10X60	50	51060.100.060
M4X18	200	51060.040.018	M6X65 *	100	51060.060.065	M10X65 *	50	51060.100.065
M4X20	200	51060.040.020	M6X70	100	51060.060.070	M10X70	50	51060.100.070
M4X25	200	51060.040.025	M6X80	100	51060.060.080	M10X80	50	51060.100.080
M4X30	200	51060.040.030	M6X90 *	100	51060.060.090	M10X90	50	51060.100.090
M4X35	200	51060.040.035				M10X100	50	51060.100.100
M4X40	200	51060.040.040	M8X10	200	51060.080.010	M10X110 *	50	51060.100.110
M4X45 *	200	51060.040.045	M8X12	200	51060.080.012	M10X120	50	51060.100.120
M4X50	200	51060.040.050	M8X14 *	200	51060.080.014	M10X130 *	50	51060.100.130
M4X60 *	100	51060.040.060	M8X16	200	51060.080.016	M10X140 *	50	51060.100.140
			M8X18	200	51060.080.018	M10X150 *	50	51060.100.150
M5X6 *	500	51060.050.006	M8X20	200	51060.080.020	M10X180 *	25	51060.100.180
M5X8	200	51060.050.008	M8X25	100	51060.080.025	M10X200 *	25	51060.100.200
M5X10	200	51060.050.010	M8X30	100	51060.080.030			
M5X12	200	51060.050.012	M8X35	100	51060.080.035	M12X16 *	50	51060.120.016
M5X14	200	51060.050.014	M8X40	100	51060.080.040	M12X20	50	51060.120.020
M5X16	200	51060.050.016	M8X45	100	51060.080.045	M12X25	50	51060.120.025
M5X18	200	51060.050.018	M8X50	100	51060.080.050	M12X30	50	51060.120.030
M5X20	200	51060.050.020	M8X55	100	51060.080.055	M12X35	50	51060.120.035
M5X25	200	51060.050.025	M8X60	100	51060.080.060	M12X40	50	51060.120.040
M5X30	200	51060.050.030	M8X65 *	100	51060.080.065	M12X45	50	51060.120.045
M5X35	200	51060.050.035	M8X70	50	51060.080.070	M12X50	50	51060.120.050
M5X40	200	51060.050.040	M8X80	50	51060.080.080	M12X55	50	51060.120.055
M5X45	200	51060.050.045	M8X90	50	51060.080.090	M12X60	50	51060.120.060
M5X50	100	51060.050.050	M8X100	50	51060.080.100	M12X65 *	50	51060.120.065
M5X55 *	200	51060.050.055	M8X110 *	50	51060.080.110	M12X70	25	51060.120.070

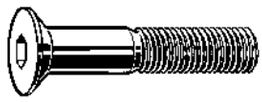
51060 Hexagon socket countersunk head screw

d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M12X80	25	51060.120.080	M16X90	25	51060.160.090	M20X130 *	10	51060.200.130
M12X90	25	51060.120.090	M16X100	10	51060.160.100	M20X140 *	10	51060.200.140
M12X100	25	51060.120.100	M16X110	10	51060.160.110	M20X150 *	10	51060.200.150
M12X110 *	25	51060.120.110	M16X120	10	51060.160.120			
M12X130 *	25	51060.120.130	M16X130	10	51060.160.130	M24X50	10	51060.240.050
M12X140 *	25	51060.120.140	M16X140 *	25	51060.160.140	M24X60	10	51060.240.060
M12X160 *	25	51060.120.160	M16X150 *	25	51060.160.150	M24X70	10	51060.240.070
						M24X80	10	51060.240.080
M16X25	25	51060.160.025	M20X45 *	25	51060.200.045	M24X90	10	51060.240.090
M16X30	25	51060.160.030	M20X50	10	51060.200.050	M24X100	10	51060.240.100
M16X35	25	51060.160.035	M20X55	10	51060.200.055	M24X110	10	51060.240.110
M16X40	25	51060.160.040	M20X60	5	51060.200.060	M24X120	10	51060.240.120
M16X45	25	51060.160.045	M20X70	10	51060.200.070	M24X130	10	51060.240.130
M16X50	25	51060.160.050	M20X80	10	51060.200.080	M24X140	10	51060.240.140
M16X60	25	51060.160.060	M20X90	10	51060.200.090	M24X150	10	51060.240.150
M16X65 *	25	51060.160.065	M20X100	10	51060.200.100			
M16X70	25	51060.160.070	M20X110 *	25	51060.200.110			
M16X80	25	51060.160.080	M20X120 *	10	51060.200.120			

- Sizes with a diameter > M24 and sizes with a length > 8xd are minimal property class 50.

55060 Hexagon socket countersunk head screw Q45A

Thread Metric thread
Material Stainless steel A4
Packaging Standard

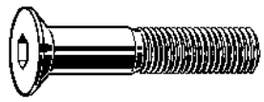


d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M3X6	200	55060.030.006	M6X60	100	55060.060.060	M10X200 *	25	55060.100.200
M3X8	200	55060.030.008	M6X70	100	55060.060.070			
M3X10	200	55060.030.010	M6X80	100	55060.060.080	M12X20	50	55060.120.020
M3X12	200	55060.030.012	M6X90 *	100	55060.060.090	M12X25	50	55060.120.025
M3X14	200	55060.030.014				M12X30	50	55060.120.030
M3X16	200	55060.030.016	M8X10	200	55060.080.010	M12X35	50	55060.120.035
M3X18	200	55060.030.018	M8X12	200	55060.080.012	M12X40	50	55060.120.040
M3X20	200	55060.030.020	M8X14 *	200	55060.080.014	M12X45	50	55060.120.045
M3X25	200	55060.030.025	M8X16	200	55060.080.016	M12X50	50	55060.120.050
			M8X18	200	55060.080.018	M12X55	50	55060.120.055
M4X6	200	55060.040.006	M8X20	200	55060.080.020	M12X60	50	55060.120.060
M4X8	200	55060.040.008	M8X25	100	55060.080.025	M12X65 *	50	55060.120.065
M4X10	200	55060.040.010	M8X30	100	55060.080.030	M12X70	25	55060.120.070
M4X12	200	55060.040.012	M8X35	100	55060.080.035	M12X80	25	55060.120.080
M4X14	200	55060.040.014	M8X40	100	55060.080.040	M12X90	25	55060.120.090
M4X16	200	55060.040.016	M8X45	100	55060.080.045	M12X100	25	55060.120.100
M4X18	200	55060.040.018	M8X50	100	55060.080.050	M12X110 *	25	55060.120.110
M4X20	200	55060.040.020	M8X55	100	55060.080.055	M12X120 *	25	55060.120.120
M4X25	200	55060.040.025	M8X60	100	55060.080.060	M12X130 *	25	55060.120.130
M4X30	200	55060.040.030	M8X65 *	100	55060.080.065	M12X150 *	25	55060.120.150
M4X35	200	55060.040.035	M8X70	50	55060.080.070			
M4X40	200	55060.040.040	M8X80	50	55060.080.080	M16X30	25	55060.160.030
M4X45 *	200	55060.040.045	M8X90	50	55060.080.090	M16X35	25	55060.160.035
M4X50	200	55060.040.050	M8X100	50	55060.080.100	M16X40	25	55060.160.040
			M8X110 *	50	55060.080.110	M16X45	25	55060.160.045
M5X8	200	55060.050.008	M8X120 *	50	55060.080.120	M16X50	25	55060.160.050
M5X10	200	55060.050.010	M8X130 *	50	55060.080.130	M16X55 *	25	55060.160.055
M5X12	200	55060.050.012	M8X140 *	50	55060.080.140	M16X60	25	55060.160.060
M5X14	200	55060.050.014	M8X150 *	50	55060.080.150	M16X65 *	25	55060.160.065
M5X16	200	55060.050.016	M8X160 *	50	55060.080.160	M16X70	25	55060.160.070
M5X18	200	55060.050.018	M8X180 *	25	55060.080.180	M16X80	25	55060.160.080
M5X20	200	55060.050.020	M8X200 *	25	55060.080.200	M16X90	25	55060.160.090
M5X25	200	55060.050.025				M16X100	10	55060.160.100
M5X30	200	55060.050.030	M10X16	100	55060.100.016	M16X110 *	25	55060.160.110
M5X35	200	55060.050.035	M10X18	100	55060.100.018	M16X120 *	25	55060.160.120
M5X40	200	55060.050.040	M10X20	100	55060.100.020	M16X130 *	25	55060.160.130
M5X45	200	55060.050.045	M10X25	100	55060.100.025	M16X140 *	25	55060.160.140
M5X50	200	55060.050.050	M10X30	100	55060.100.030	M16X150 *	25	55060.160.150
M5X55 *	200	55060.050.055	M10X35	100	55060.100.035			
M5X60 *	200	55060.050.060	M10X40	100	55060.100.040	M20X40	10	55060.200.040
			M10X45	100	55060.100.045	M20X45	10	55060.200.045
M6X8	200	55060.060.008	M10X50	100	55060.100.050	M20X50	10	55060.200.050
M6X10	200	55060.060.010	M10X55	100	55060.100.055	M20X55	10	55060.200.055
M6X12	200	55060.060.012	M10X60	50	55060.100.060	M20X60	10	55060.200.060
M6X14 *	200	55060.060.014	M10X65 *	50	55060.100.065	M20X70	10	55060.200.070
M6X16	200	55060.060.016	M10X70	50	55060.100.070	M20X80 *	25	55060.200.080
M6X18	200	55060.060.018	M10X80	50	55060.100.080	M20X90	10	55060.200.090
M6X20	200	55060.060.020	M10X90	50	55060.100.090	M20X100	10	55060.200.100
M6X25	200	55060.060.025	M10X100	10	55060.100.100	M20X110 *	25	55060.200.110
M6X30	200	55060.060.030	M10X110 *	50	55060.100.110	M20X120 *	10	55060.200.120
M6X35	200	55060.060.035	M10X120	50	55060.100.120	M20X140 *	10	55060.200.140
M6X40	200	55060.060.040	M10X130 *	50	55060.100.130	M20X150 *	10	55060.200.150
M6X45	100	55060.060.045	M10X140 *	50	55060.100.140			
M6X50	100	55060.060.050	M10X150 *	50	55060.100.150	M24X90 *	10	55060.240.090
M6X55	100	55060.060.055	M10X180 *	25	55060.100.180			

- Sizes with a diameter > M24 and sizes with a length > 8xd are minimal property class 50.

45008 Hexagon socket countersunk head screw W010

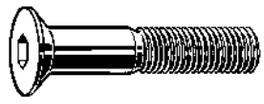
Thread Metric thread
Material Aluminium Sopral P40
Packaging Standard
ISO ≈10642
DIN ≈7991
NEN ≈2359
BS ≈4168-8



d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M3X8	200	45008.030.008				M4X16	200	45008.040.016
M3X12	200	45008.030.012	M4X10	200	45008.040.010			
M3X16	200	45008.030.016						

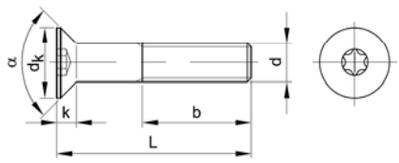
45208 Hexagon socket countersunk head screw W010

Thread Metric thread
Material Aluminium Sopral P60
Packaging Standard
ISO ≈10642
DIN ≈7991
NEN ≈2359
BS ≈4168-8

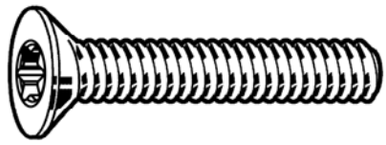


d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M5X20	200	45208.050.020	M6X25	200	45208.060.025	M8X20	200	45208.080.020
M6X10	200	45208.060.010						

Hexalobular socket countersunk head screw



ISO ≈10642
DIN ≈7991
NF ≈E25-107



Technical data

d	M4	M5	M6	M8
P	0,7	0,8	1	1,25
d_k	8	10	12	16
k (max.)	2,3	2,8	3,3	4,4
α	90°	90°	90°	90°
Socket	No.20	No.25	No.30	No.40
b	14	16	18	22

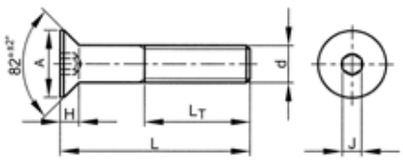
- Due to the unfavourable geometry of the head, these fasteners do have reduced load ability.
- When steel fasteners (e.g. 8.8 / 10.9 / 12.9) with reduced load ability needs to be marked, the marking symbol for the property class is preceded by the digit '0'. So 8.8 → 08.8 and 10.9 → 010.9 and 12.9 → 012.9.
- For the stainless steel fasteners it is indicated by only marking the steel grade and by leaving out the property class 70 (e.g. A2-70 → A2).
- The former and the new indications can occur side by side for some time.

07450 Hexalobular socket countersunk head screw **D02A**

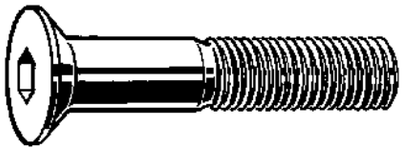
Thread	Metric thread
Material	Steel
Class	08.8/8.8
Surface treatment	Zinc plated
Packaging	Standard

d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
M4X10	200	07450.040.010	M5X30	200	07450.050.030	M6X40	200	07450.060.040
M4X12	200	07450.040.012	M5X35	100	07450.050.035			
M4X16	200	07450.040.016	M5X40	100	07450.050.040	M8X16	200	07450.080.016
M4X20	200	07450.040.020				M8X20	200	07450.080.020
M4X25	200	07450.040.025	M6X10	200	07450.060.010	M8X25	200	07450.080.025
			M6X12	200	07450.060.012	M8X30	200	07450.080.030
M5X10	200	07450.050.010	M6X16	200	07450.060.016	M8X35	100	07450.080.035
M5X12	200	07450.050.012	M6X20	200	07450.060.020	M8X40	100	07450.080.040
M5X16	200	07450.050.016	M6X25	200	07450.060.025	M8X45	100	07450.080.045
M5X20	200	07450.050.020	M6X30	200	07450.060.030	M8X50	100	07450.080.050
M5X25	200	07450.050.025	M6X35	200	07450.060.035			

Hexagon socket countersunk head screw UNC



ANSI ≈B18.3
BS ≈2470



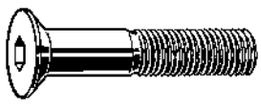
Technical data

d	Threads per inch	L_T (min.)	H	A	J
No.2	56	16	1.63	5	0.050
No.4	40	19	2,11	6,48	1/16
No.5	40	19	2,29	7,14	5/64
No.6	32	19	2,45	7,8	5/64
No.8	32	22	2,84	9,12	3/32
No.10	24	22	3,2	10,4	1/8
1/4	20	25	4,1	13,4	5/32
5/16	18	28	5	16,6	3/16
3/8	16	32	5,9	19,8	7/32
1/2	13	38	6,4	23,8	5/16
5/8	11	45	8,2	30,1	3/8

- The mechanical properties corresponds much with the same property class 10.9 acc. to DIN ISO 898-1. Due to the unfavourable geometry of the head the tensile strength of these screws is not determined by the cross section of the thread, consequently these screws are permitted to be only partially prestressed. When these steel 10.9 fasteners needs to be marked, the marking symbol for the property class is preceded by the digit '0'. So 10.9 --> 010.9.
- Marking of these screws is not mandatory.
- ATTENTION: as the product standard specifies thread tolerance 3A for thread sizes up to 1 inch, zinc plating can cause thread fit problems.

07610 Hexagon socket countersunk head screw UNC **X05A**

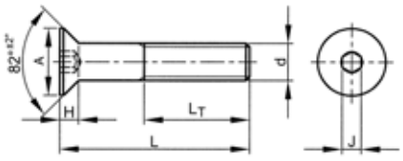
Thread Unified National Coarse
Material Steel
Class 010.9/10.9
Packaging Standard



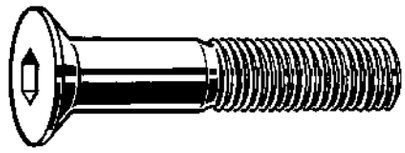
d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
NO.2X3/16	100	07610.021.004	NO.8X1/2	100	07610.041.012	5/16X1.1/4	100	07610.079.031
NO.2X1/4	100	07610.021.006	NO.8X5/8	100	07610.041.015	5/16X1.1/2	100	07610.079.038
NO.2X3/8	100	07610.021.009	NO.8X3/4	100	07610.041.019			
NO.2X1/2	100	07610.021.012	NO.8X1.IN.	100	07610.041.025	3/8X3/4	100	07610.096.019
NO.4X3/16	100	07610.028.004	NO.10X1/2	100	07610.048.012	3/8X1.IN.	100	07610.096.025
NO.4X1/4	100	07610.028.006	NO.10X3/4	100	07610.048.019	3/8X1.1/4	100	07610.096.031
NO.4X3/8	100	07610.028.009	NO.10X1.IN.	100	07610.048.025	3/8X1.1/2	100	07610.096.038
NO.4X1/2	100	07610.028.012	NO.10X1.1/4	100	07610.048.031			
NO.4X3/4	100	07610.028.019	NO.10X1.1/2	100	07610.048.038	1/2X1.IN.	50	07610.127.025
NO.5X1/4	100	07610.031.006	1/4X1/2	100	07610.063.012	1/2X1.1/4	50	07610.127.031
NO.5X3/8	100	07610.031.009	1/4-20X5/8	100	07610.063.015	1/2X1.1/2	50	07610.127.038
NO.5X1/2	100	07610.031.012	1/4X3/4	100	07610.063.019	1/2X1.3/4	50	07610.127.044
NO.5X5/8	100	07610.031.015	1/4X1.IN.	100	07610.063.025	1/2X2.IN.	50	07610.127.050
NO.5X3/4	100	07610.031.019	1/4X1.1/4	100	07610.063.031			
NO.6X1/4	100	07610.035.006	1/4X1.1/2	100	07610.063.038	5/8X1.1/4	25	07610.158.031
NO.6X3/8	100	07610.035.009				5/8X1.1/2	25	07610.158.038
NO.6X1/2	100	07610.035.012	5/16X5/8	100	07610.079.015	5/8X1.3/4	25	07610.158.044
NO.6X5/8	100	07610.035.015	5/16X3/4	100	07610.079.019	5/8X2.IN.	25	07610.158.050
NO.6X3/4	100	07610.035.019	5/16X1.IN.	100	07610.079.025			
NO.8X3/8	100	07610.041.009						

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

Hexagon socket countersunk head screw UNF



ANSI ≈B18.3
BS ≈2470



Technical data

d	Threads per inch	L_T (min.)	H	A	J
No.10	32	22	-	10,44	1/8
1/4	28	25	4,1	13,4	5/32
5/16	24	28	5	16,6	3/16
3/8	24	32	5,9	19,8	7/32
1/2	20	38	6,4	23,8	5/16
5/8	18	45	8,2	30,1	3/8

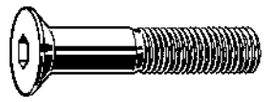
- The mechanical properties corresponds much with the same property class 10.9 acc. to DIN ISO 898-1. Other properties acc. to ASTM A574.
- Due to the unfavourable geometry of the head the tensile strength of these screws is not determined by the cross section of the thread, consequently these screws are permitted to be only partially prestressed. When these steel 10.9 fasteners needs to be marked, the marking symbol for the property class is preceded by the digit '0'. So 10.9 --> 010.9.
- Marking of these screws is not mandatory.
- ATTENTION: as the product standard specifies thread tolerance 3A for thread sizes up to 1 inch, zinc plating can cause thread fit problems.

Article groups

Thread	Driving features	Material	Class	Surface treatment	Packaging	Code	Page
UNF	hexagon socket	St	010.9/10.9	Mech.zipl.	Standard	07560	2-38
UNF	hexagon socket	St	010.9/10.9		Standard	07580	2-38

07560 Hexagon socket countersunk head screw UNF — X05A

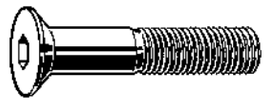
Thread Unified National Fine
Material Steel
Class 010.9/10.9
Surface treatment Mechanical zinc plated
Packaging Standard



d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
1/4X3/4	100	07560.063.019	3/8X1.IN.	100	07560.096.025	5/8X2.IN.	25	07560.158.050
5/16X1.IN.	100	07560.079.025	1/2X1.1/4	50	07560.127.031			

07580 Hexagon socket countersunk head screw UNF — X05A

Thread Unified National Fine
Material Steel
Class 010.9/10.9
Packaging Standard

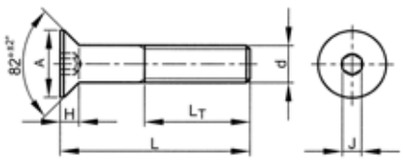


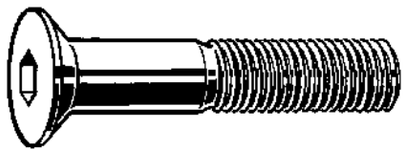
d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
1/4X7/8	100	07580.063.022	5/8X2.1/4	25	07580.158.057	5/8X2.1/2	25	07580.158.063
5/8X1.1/2	25	07580.158.038						

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

Hexagon socket countersunk head screw BSW

BS ≈2470





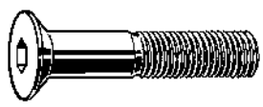
Technical data

d	3/16	1/2
Threads per inch	24	12
L_T (min.)	22	38
H	3,2	6,4
A	10,4	23,8
J	1/8	5/16

- Whitworth thread (BSW/BSF) is not internationally recommended. It is advised to use metric (M/MF) or unified threads (UNC/UNF).
- Depending on availability also class 12.9 can be supplied. Due to the unfavourable geometry of the head the tensile strength of these screws is not determined by the cross section of the thread, consequently these screws are permitted to be only partially restressed. Consequently these screws are permitted to be only partially prestressed.
- Marking of these screws is not mandatory.
- Depending on availability the dimensions may deviate.

07600 **Hexagon socket countersunk head screw BSW** **X08A**

Thread British Standard Whitworth
Material Steel
Class 10.9
Packaging Standard



d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
1/2X25MM	50	07600.127.025						
1/2X30MM	50	07600.127.031						
1/2X38MM	50	07600.127.038						

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.