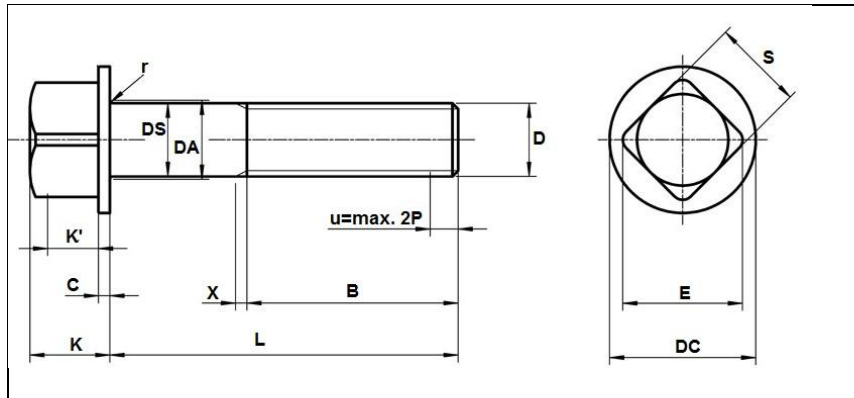




Product Dimensions and Weights

DIN 478 Specifications

Metric DIN 478 Square Head Bolts with Collar



Thread d		M5	M6	M8	M10	M12	M16	M20	M24
P		0.8	1	1.25	1.5	1.75	2	2.5	3
B	l < 125mm	16.00	18.00	22.00	26.00	30.00	38.00	45.00	54.00
	l > 125mm	-	-	-	32.00	36.00	44.00	52.00	60.00
C	nominal	2.00	2.00	2.00	3.00	3.00	4.00	5.00	6.00
	min.	1.88	1.88	1.88	2.88	2.88	3.85	4.85	5.85
	max.	2.12	2.12	2.12	3.12	3.12	4.15	5.15	6.15
DA	max.	5.70	6.80	9.20	11.20	13.70	17.70	22.40	26.40
DC	nominal = max.	9.50	10.50	13.50	16.50	19.50	25.00	31.00	36.00
	min.	8.92	9.80	12.80	15.80	18.66	24.16	30.00	35.00
DS	nominal = max.	5.00	6.00	8.00	10.00	12.00	16.00	20.00	24.00
	min.	4.82	5.82	7.78	9.78	11.73	15.73	19.67	23.67
E	nominal = max.	6.50	8.00	10.00	13.00	17.00	22.00	28.00	32.00
	min.	5.92	7.42	9.42	12.30	16.30	21.16	27.16	31.00
K	nominal	7.00	8.00	10.00	13.00	15.00	20.00	25.00	28.00
	max.	6.82	7.82	9.82	12.78	14.78	19.74	24.74	27.74



	min.	7.18	8.18	10.18	13.22	15.22	20.26	25.26	28.26
K'	min.	3.40	4.10	5.50	6.90	8.30	11.10	13.80	15.20
r	min.	0.25	0.25	0.40	0.40	0.60	0.60	0.80	0.90
S	nominal=max.	5.00	6.00	8.00	10.00	13.00	17.00	22.00	24.00
	min.	4.82	5.82	7.78	9.78	12.73	16.73	21.67	23.67
X	max.	2.00	2.50	3.20	3.80	4.30	5.00	6.30	7.50

All measurements are in mm

Weights for metric DIN 478 Square Head Bolts

Thread d			M5	M6	M8	M10	M12	M16	M20	M24
P			0.8	1	1.25	1.5	1.75	2	2.5	3
L			weight kg/1000pcs							
nominal	min.	max.								
10	9.71	10.29	3.19	4.57						
16	15.65	16.35	3.94	5.65	10.8					
20	19.58	20.42	4.6	6.35	12.1	21.9				
25	24.58	25.42	5.37	7.45	13.7	24.4	39.5			
30	29.58	30.42	6.74	8.55	15.7	27.5	43	88		
35	34.5	35.5		9.65	17.7	30.6	47.5	95	172	240
40	39.5	40.5		10.9	19.7	33.7	52	102	182	255
45	44.5	45.5			21.7	36.8	56.5	110	193	270
50	49.5	50.5				39.9	61	118	203	285
55	54.4	55.6				43	65.5	126	215	300
60	59.4	60.6				46.1	70	134	227	315
70	69.4	70.6					79	150	252	350
80	79.4	80.6					88	176	277	385
90	89.3	90.7					97	192	302	420
100	99.3	100.7						208	327	455
110	109.3	110.7						224	352	490



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120	119.3	120.7						240	377	525
140	139.2	140.8						272	427	595
160	159.2	160.8							477	665
180	179.2	180.8							527	735

Metric

DIN 478 square head bolts with collar are externally threaded fasteners with a square shaped head with a washer face. The head configuration of the DIN 478 square head bolts provides a significantly larger surface area and these bolts are used where larger bearing surfaces are required. DIN 478 square head bolts are partially threaded with thread length dependent on the diameter and length of the bolt. Unique Fasteners offers over 500,000 unique fastener products from stock in inch and metric standard in a variety of materials and finishes. The following sizes of DIN 478 square head bolts are available for immediate shipping from stock: Diameters ranging from M3 to M30 in regular zinc plated steel and stainless steel A2 and stainless steel A4.

DIN (Deutsches Institut für Normung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 478 square head bolts. The DIN standards are commonly used in Germany, Europe and globally even though the transition to ISO standards is gradually taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization. The ISO equivalent for DIN 478 square head bolts is ISO 1052.