



Hex Bolt, Nut and Set Screws Across Flat Sizes (AF)

This data sheet contains A/F, or 'Across the Flats' dimensions for different hex bolts, nuts and screws. The A/F value is the distance between two flat edges of the hex head bolt or screw. This value can differ for the same bolt size depending on which DIN or ISO standard the bolt is manufactured to. There are tabulated values for both metric and imperial bolts and nuts, corresponding to different AS 2465, DIN (931 to 934), and ISO (4014, 4017, 4034) standards.



Metric

Nominal DIA	DIN 931	ISO 4014
	DIN 933	ISO 4017
	DIN 934	ISO 4032
M1.6	3.2	3.2
M2	4	4
M2.5	5	5
M3	5.5	5.5
M4	7	7
M5	8	8
M6	10	10
M8	13	13
M10*	17	16
M12	19	18
M14*	22	21
M16	24	24
M18	27	27
M20	30	30
M22*	32	34
M24	36	36
M30	46	46
M36	55	55
M42	65	65
M48	75	75
M56	85	85

Imperial

Nominal DIA	AS 2465
1/4	7/16
5/16	1/2
3/8	9/16
7/16	5/8**
1/2	3/4
9/16	13/16
5/8	15/16
3/4	1-1/8
7/8	1-5/16
1	1-1/2
1-1/8	1-11/16
1-1/4	1-7/8
1-3/8	2-1/16
1-1/2	2-1/4

* For M10, and M14 we stock all Steel Bolts and Nuts to an ISO standard, and all Stainless Steel Bolts and Nuts to a DIN standard.

** For 7/16 Imperial Nuts the AF is 11/16. All other sizes are the same as bolt AF measurements.

DIN Standards	ISO Standards	Australian/New Zealand Standard
DIN 931 Hexagon head bolts with shank	ISO 4014 Hexagon head bolts with shank	AS/NZS 2465 Hexagon bolts, screws and nuts (UNC and UNF threads)
DIN 933 Hexagon head bolts with thread up to head (Set Screws)	ISO 4017 Hexagon head bolts with thread up to head (Set Screws)	
DIN 934 Hexagon Nuts	ISO 4032 Hexagon Nuts	

ⓘ The data provided in this document is for general guidance only and should not be solely relied upon when working to stringent specifications. We recommend consulting with qualified experts regarding any technical queries. This information may change without written notice.