

HEX WIDTHS ACROSS FLATS

General

The following selection series has been decided upon in order to reduce the number of hexagon sizes available. When bearing in mind the spanners and other fasteners that are dependent on width across flats, the values given should be adhered to except in very exceptional cases.

Application

Inch widths across flats must always be applied with regard to Swedish standard screws and nuts with unified threads and also to other fasteners with unified threads which can be produced in large series. Millimetre widths across flats are always to be applied in other cases.

With across flats in mm

Width across flat	Applied to thread type		
	M	Unified	NPTF
5	2,5		1/4
5,5	3; 3,5		
7	4		
8	5	nr 6, nr 8	
10	6	nr 10	1/16
11	7	nr 12, 1/4	1/8
13	8	5/16	
(15)		3/8	1/4
17	10	7/16	
19	12	1/2	3/8
22	14	9/16	1/2
24	16	5/8	
27	18		3/4
30	20	3/4	
32	22	7/8	
36	24		1
41			
50		1 1/4	
60		1 1/2	

Width across flats in inches

Width across flat		Unified thread nut/screw	Note
Inch	mm		
1/4	6,35	nr 6, nr 8	screw
5/16	7,9	nr 6	mutter
5/16	7,9	nr 10, nr 12	screw
11/32	8,7	nr 8	screw
3/8	9,5	nr 10	mutter
7/16	11,1	1/4	screw
7/16	11,1	nr 12	screw
1/2	12,7	5/16	mutter
9/16	14,3	3/8	screw
5/8	15,9	7/16	screw
11/16	17,5	7/16	mutter
3/4	19,0	1/2	screw
13/16	20,6	9/16	screw
7/8	22,2	9/16	mutter
15/16	23,8	5/8	screw
1 1/8	28,6	3/4	
1 5/16	33,3	7/8	
1 1/2	38,1	1	
1 7/8	47,6	1 1/4	
2 1/4	57,2	1 1/2	

The size given in brackets must be avoided but can be applied in connection with the thread given in the table recommendations.

RECOMMENDED DRILLING DIAMETERS FOR HOLES TO BE THREADED

Drill diameter	Threads				Drill diameter	Threads			
	M course	M fine	UNC	UNF		M course	M fine	UNC	UNF
1,6 1,75 1,85	M2				26,5 28 28,5	M30	M28x1,5 M30x2 M30x1,5	1 1/4-7 UNC	1 1/8-12 UNF
2,05 2,05 2,15	M2,5 M2,6	M2,5x0,35			29,5 30,5 30,75	M33	M32x1,5	1 3/8-6 UNC	1 1/4-12 UNF
2,5 2,65 2,9	M3 M3,5	M3x0,35			31 32 32,75	M36	M33x2		1 3/8-12 UNF
3,3 3,5 3,7	M4 M4,5	M4x0,5			33 33,5 33,7		M36x3 M35x1,5	1 1/2-6 UNC	
4,2 4,5 5	M5 M6	M5x0,5			34,5 35 36	M39	M36x1,5 M39x3		1 1/2-12 UNF
5,1 5,2 5,4		M6x0,75	1/4-20 UNC		36,5 37 37,5	M42	M38x1,5 M40x3		1/4-28 UNF
6 6,5 6,8	M7 M8		5/16-18 UNC		38,5 39 40,5	M45	M40x1,5 M42x3 M42x1,5	1 3/4-5 UNC	
7 7,2 7,8	M9	M8x1 M8x0,75			42 43 43,5	M48	M45x3 M45x1,5		
7,9 8 8,4		M9x1	3/8-16 UNC		45 46,5 47	M52	M48x3 M48x1,5 M50x3	2-4 1/2 UNC	
8,5 8,8 9	M10	M10x1,25 M10x1			48,5 49 50,5	M56	M50x1,5 M52x3 M52x1,5		
9,2 9,3 9,5	M11	M10x0,75	7/16-14 UNC		51 51,5 53		M55x4 M55x2	2 1/4-4 1/2 UNC	
9,8 10 10,2	M12	M11x1		7/16-20 UNF	53,5 54 54,5	M60	M55x1,5 M58x4		
10,5 10,7 11		M12x1,5 M12x1,25 M12x1	1/2-13 UNC		56 56 56,5		M58x2 M60x4 M58x1,5		
11,4 12 12,2	M14		9/16-12 UNC	1/2-20 UNF	57 58 58	M64	M60x2 M62x4	2 1/2-4 UNC	
12,5 12,8 12,9		M14x1,5 M14x1,25		9/16-18 UNF	58,5 60 61		M60x1,5 M62x2 M65x4		
13 13,5 14	M16	M14x1 M15x1	5/8-11 UNC		62 63 63,5	M68	M65x2 M65x1,5	2 3/4-4 UNC	
14,5 15 15,5	M18	M16x1,5 M16x1		5/8-18 UNF	64 66 66		M68x4 M68x2 M70x4		
16 16,5 17		M17x1 M18x1,5 M18x1	3/4-10 UNC		66 68 68		M72x6 M70x2 M72x4		
17,5 18,5 19	M20	M20x1,5 M20x1		3/4-16 UNF	68,5 69 69,5		M70x1,5 M75x6	3-4 UNC	
19,25 19,5 20,4	M22		7/8-9 UNC	7/8-14 UNF	70 70 71		M72x2 M76x6 M75x4		
20,5 21 22	M24	M22x1,5 M22x1 M24x2			72 73 73,5		M76x4 M75x2 M75x1,5		
22,5 23,25 23,5		M24x1,5 M25x1,5		1-2 UNF	74 76 76		M80x6 M78x2 M80x4	3 1/4-4 UNC	
24 24,5 25	M27	M26x1,5 M27x2	1 1/8-7 UNC		78 78,5 79		M80x2 M80x1,5 M85x6		

VOLVO

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