









Metric Bolt Conversion

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Diameter/Decimal/Metric Chart for Small Diameter Fasteners

Gauge or Diameter	Decimal (in)	mm	MINIMUM STRENGTHS	
			METRIC (ISO 898)	INCH (SAE J429)
No.0000	0.021	.53		
No.000	0.034	.86	Grade: 4.8 (4.6, 5.8) Tensile: 429 MPa (60,900 psi)	Grade: 2 Tensile: 60,000 psi
No.00	0.047	1.19		
No.0	0.060	1.524	Grade: 8.8 Tensile: 830 MPa (120,360 psi)	Grade: 5 Tensile: 120,000 psi
No.1	0.073	1.854		
No.2	0.086	2.184	Grade: 10.9 Tensile: 1040 MPa (150,600 psi)	Grade: 8 Tensile: 150,000 psi
No.3	0.099	2.515		
No.4	0.112	2.845	Grade: 12.9 Tensile: 1220 MPa (176,900 psi)	Grade: ASTM-A574 Tensile: 170,000 psi Note: Generally not marked
No.5	0.125	3.175		
No.6	0.138	3.505		
No.8	0.164	4.166		
No.10	0.190	4.826		
No.12	0.216	5.484		

Fastener Conversion Chart

Inch Equivalent		Metric Size-PitchISO and IFI Rec.
UNC	UNF	
1- 64	1- 72	M2x 0.4
3- 48	3- 56	M2.5x 0.45
4- 40	4- 48	M3x .5
6- 32	6- 40	M3.5x .6
8- 32	8- 36	M4x .7

10- 24	10- 32	M5x .8
1/4- 20	1/4- 28	M6x 1
5/16-18	5/16- 24	M8x 1.25
3/8-16	3/8- 24	M10x 1.5
7/16-14	7/16- 20	M12x 1.75
1/2- 13	1/2- 20	M14x 2
5/8- 11	5/8- 18	M18x 2
3/4- 10	3/4- 16	M20x 2.5
1- 8	1-12	M24x 3
1-1/4- 7	1-1/8- 12	M30x 3.5
1-1/2- 6	1-1/4- 12	M36x 4

Approximate Equivalency Chart Metric/US Roughly Equivalent US Bolt Materials

Metric Nut Class	SAE J429 Normally Used	Grades	ASTM Grades
4.6	4or 5	1	A307, Grade A
4.8	4or 5	2	.
5.8	5	2	.
8.8	8	5	A325, A449
9.8	9	5+	A193, B7 and B16
10.9	10or 12	8	A490, A354, Grade 8D
12.9	10or 12	.	A540; B21 through B24

Common DIN Numbers for Metric Fasteners

DIN	Hex Capscrews
931	Coarse thread pitch partially threaded (specify grade)

933	Coarse thread pitch fully threaded (specify grade)
930	Fine thread pitch partially threaded (specify grade)
961	Fine thread pitch fully threaded (specify grade)
DIN	Nuts
934	Hex nuts (specify pitch and class)
985	Nylon insert locknuts (specify pitch and class)
980V	All metal locknuts (specify pitch and class)
DIN	Washers
125	Flatwashers
127	Lockwashers
DIN	Socket Products
912	Socket head capscrews (normally GR 12.9 and coarse thread)
7991	Flat head socket capscrews (normally GR 12.9 and coarse thread)
916	Socket setscrews (normally GR 12.9 and coarse thread)
DIN	Machine Screws
7985	Pan head Phillips drive zinc plated
965	Flat head Phillips drive zinc plated
DIN	Threaded Rod
975	All threaded rod (normally 1 meter lengths, specify grade and pitch)