MEREDITH DISTRIBUTION

MEASUREMENT & CONVERSION DATA

DRILL SIZE & DECIMAL EQUIVALENT

mm	Fract.	Gauge	Dec. Equiv.
		80	0.0135
0.35			0.0138
		79	0.0145
0.38			0.0150
	1/64		0.0156
0.40			0.0157
		78	0.0160
0.42			0.0165
0.45			0.0177
		77	0.0180
0.48			0.0189
0.50			0.0197
		76	0.0200
0.52			0.0205
		75	0.0210
0.55			0.0217
		74	0.0225
0.58			0.0228
0.60			0.0236
		73	0.0240
		72	0.0250
0.65			0.0256
		71	0.0260
0.70			0.0276
		70	0.0280
		69	0.0292
0.75			0.0295
		68	0.0310
	1/32		0.0312
0.80			0.0315
		67	0.0320
		66	0.0330
0.85			0.0335
		65	0.0350
0.90			0.0354
		64	0.0360
		63	0.0370
0.95			0.0374
		62	0.0380
		61	0.0390
1.00			0.0394
		60	0.0400
		59	0.0410
1.05			0.0414
		58	0.0420
		57	0.0430
1.10			0.0433
1.15			0.0453
		56	0.0465
			0.0469
	3/64		
1.20			0.0472
1.25			0.0492
1.30			0.0512
		55	0.0520
1.35			0.0532
		54	0.0550
1.40			0.0551
1.45			0.0571
1.50			0.0591
		53	0.0595
1.55			0.0610
	1/16		0.0625
1.60			0.0630
		52	0.0635
1.65			0.0650

mm	Fract.	Gauge	Dec. Equiv.
1.70			0.0669
		51	0.0670
1.75			0.0689
		50	0.0700
1.80			0.0709
1.85			0.0729
		49	0.0730
1.90			0.0748
		48	0.0760
1.95			0.0768
	5/64		0.0781
		47	0.0785
2.00			0.0787
2.05			0.0807
		46	0.0810
		45	0.0820
2.10			0.0827
2.15			0.0847
		44	0.0860
2.20			0.0866
2.25			0.0886
		43	0.0890
2.30			0.0906
2.35			0.0926
		42	0.0935
	3/32		0.0938
2.40			0.0945
		41	0.0960
2.45			0.0965
		40	0.0980
2.50			0.0984
		39	0.0995
2.55			0.1004
		38	0.1015
2.60			0.1024
		37	0.1040
2.65			0.1043
2.70			0.1063
		36	0.1065
2.75			0.1083
	7/64		0.1094
		35	0.1100
2.80			0.1102
		34	0.1110
2.85			0.1122
		33	0.1130
2.90			0.1142
		32	0.1160
2.95			0.1162
3.00			0.1181
		31	0.1200
3.10			0.1220
	1/8		0.1250
3.20			0.1260
		30	0.1285
3.30			0.1299
3.40			0.1339
		29	0.1360
3.50			0.1378
		28	0.1405
	9/64		0.1406
3.60			0.1417
		27	0.1440
3.70			0.1457
		26	0.1470
		25	0.1495

mm	Fract.	Gauge	Dec. Equiv.
3.80			0.1496
		24	0.1520
3.90			0.1535
		23	0.1540
	5/32		0.1562
		22	0.1570
4.00			0.1575
		21	0.1590
		20	0.1610
4.10			0.1614
4.20			0.1654
		19	0.1660
4.30			0.1693
		18	0.1695
	11/64		0.1719
		17	0.1730
4.40			0.1732
		16	0.1770
4.50			0.1772
		15	0.1800
4.60			0.1811
		14	0.1820
4.70		13	0.1850
	3/16		0.1875
4.80		12	0.1890
		11	0.1910
4.90			0.1929
		10	0.1935
		9	0.1960
5.00			0.1969
		8	0.1990
5.10			0.2008
		7	0.2010
	13/64		0.2031
		6	0.2040
5.20			0.2047
		5	0.2055
5.30			0.2087
		4	0.2090
5.40			0.2126
		3	0.2130
5.50			0.2165
	7/32		0.2188
5.60			0.2205
		2	0.2210
5.70			0.2244
		1	0.2280
5.80			0.2283
5.90			0.2323
		A	0.2340
	15/64		0.2344
6.00			0.2362
		B	0.2380
6.10			0.2402
		C	0.2420
6.20			0.2441
		D	0.2460
6.30			0.2480
	1/4	E	0.2500
6.40			0.2520
6.50			0.2559
		F	0.2570
			0.2598
		G	0.2610
6.70			0.2638
	17/64		0.2656

mm	Fract.	Gauge	Dec. Equiv.
		H	0.2660
6.80			0.2677
6.90			0.2717
		I	0.2720
7.00			0.2756
		J	0.2770
7.10			0.2795
		K	0.2810
	9/32		0.2812
7.20			0.2835
7.30			0.2874
		L	0.2900
7.40			0.2913
		M	0.2950
7.50			0.2953
	19/64		0.2969
7.60			0.2992
		N	0.3020
7.70			0.3031
7.80			0.3071
7.90			0.3110
	5/16		0.3125
8.00			0.3150
		O	0.3160
8.10			0.3189
8.20			0.3228
		P	0.3230
8.30			0.3268
	21/64		0.3281
8.40			0.3307
		Q	0.3320
8.50			0.3346
8.60			0.3386
		R	0.3390
8.70			0.3425
	11/32		0.3438
8.80			0.3465
		S	0.3480
8.90			0.3504
9.00			0.3543
		T	0.3580
	23/64		0.3593
9.20			0.3622
		U	0.3680
9.50			0.3740
	3/8		0.3750
		V	0.3770
9.80			0.3858
		W	0.3860
	25/64		0.3906
10.00			0.3937
		X	0.3970
10.20			0.4016
		Y	0.4040
	13/32		0.4062
		Z	0.4130
10.50			0.4134
	27/64		0.4219
10.80			0.4252
11.00			0.4331
	7/16		0.4375
11.20			0.4409
11.50			0.4528
	29/64		0.4531
11.80			0.4646
	15/32		0.4688

mm	Fract.	Gauge	Dec. Equiv.
12.00			0.4724
12.20			0.4803
	31/64		0.4844
12.50			0.4921
12.70	1/2		0.5000
12.80			0.5039
13.00			0.5118
	33/64		0.5156
	17/32		0.5312
13.50			0.5315
	35/64		0.5469
14.00			0.5512
	9/16		0.5625
14.50			0.5709
	37/64		0.5781
15.00			0.5905
	19/32		0.5937
	39/64		0.6094
15.50			0.6102
	5/8		0.6250
16.00			0.6299
	41/64		0.6406
16.50			0.6496
	21/32		0.6562
17.00			0.6693
	43/64		0.6719
	11/16		0.6875
17.50			0.6890
	45/64		0.7031
18.00			0.7087
	23/32		0.7187
18.50			0.7284
	47/64		0.7344
19.00			0.7480
	3/4		0.7500
	49/64		0.7656
19.50			0.7677
	25/32		0.7812
20.00			0.7874
	51/64		0.7969
20.50			0.8071
	13/16		0.8125
21.00			0.8268
	53/64		0.8281
	27/32		0.8437
21.50			0.8465
	55/64		0.8594
22.00			0.8661
	7/8		0.8750
22.50			0.8858
	57/64		0.8906
23.00			0.9055
	29/32		0.9062
	59/64		0.9219
23.50			0.9252
	15/16		0.9375
24.00			0.9449
	61/64		0.9531
24.50			0.9646
	31/32		0.9687
25.00			0.9842
	63/64		0.9844
25.40	1		1.0000

MEASUREMENT CONVERSION CHART

mm	Inches		Unified	BA
0.79	0.031	1/32		
1.00	0.039			
1.52	0.060		0	
1.59	0.062	1/16		10
2.00	0.079			
2.18	0.086		2	
2.20	0.087			8
2.38	0.094	3/32		
2.50	0.098			
2.80	0.110			6
2.84	0.112		4	
3.00	0.118			
3.17	0.125	1/8		
3.20	0.126			5
3.50	0.138		6	
3.60	0.142			4
3.97	0.156	5/32		
4.00	0.158			
4.10	0.161			3
4.17	0.164		8	
4.50	0.177			
4.70	0.185			2
4.76	0.187	3/16		
4.83	0.190		10	
5.00	0.197			
5.30	0.209			1
5.56	0.219	7/32		
6.00	0.236			0
6.35	0.250	1/4		
7.00	0.276			
7.14	0.281	9/32		
7.94	0.312	5/16		
8.00	0.315			
8.73	0.344	11/32		
9.00	0.354			
9.52	0.375	3/8		
10.00	0.394			
10.32	0.406	13/32		
11.00	0.433			
11.11	0.438	7/16		
11.91	0.468	15/32		
12.00	0.472			
12.70	0.500	1/2		
13.00	0.512			
14.00	0.551			
14.29	0.563	9/16		

mm	Inches	
15.00	0.591	
15.87	0.625	5/8
16.00	0.630	
17.00	0.670	
17.46	0.688	11/16
18.00	0.709	
19.00	0.748	
19.05	0.750	3/4
20.00	0.787	
20.64	0.813	13/16
22.22	0.875	7/8
23.81	0.938	15/16
25.00	0.984	
25.40	1.000	1
28.57	1.125	1.1/8
30.00	1.181	
31.75	1.250	1.1/4
35.00	1.378	
38.10	1.500	1.1/2
40.00	1.575	
44.45	1.750	1.3/4
45.00	1.772	
50.00	1.969	
50.58	2.000	2
55.00	2.165	
57.15	2.250	2.1/4
60.00	2.362	
63.50	2.500	2.1/2
65.00	2.559	
69.85	2.750	2.3/4
70.00	2.756	
75.00	2.953	
76.20	3.000	3
80.00	3.150	
88.90	3.500	3.1/2
90.00	3.543	
100.00	3.937	
101.60	4.000	4
110.00	4.330	
114.30	4.500	4.1/2
120.00	4.724	
127.00	5.000	5
130.00	5.118	
139.70	5.500	5.1/2
140.00	5.512	
150.00	5.906	
152.40	6.000	6

METRIC CONVERSIONS

LENGTH

From		To	Multiply by
inches	→	millimetres	25.4
millimetres	→	inches	0.0394
inches	→	centimetres	2.54
centimetres	→	inches	0.3937
feet	→	metres	0.3048
metres	→	feet	3.281
yards	→	metres	0.9144
metres	→	yards	1.094
miles	→	kilometres	1.609
kilometres	→	miles	0.6214
square inches	→	square centimetres	6.452
square centimetres	→	square inches	0.155
square metres	→	square feet	10.76
square feet	→	square metres	0.0929
square yards	→	square metres	0.8361
square metres	→	square yards	1.196
square miles	→	square kilometres	2.589
square kilometres	→	square miles	0.3861
acres	→	hectares	0.4047
hectares	→	acres	2.471
cubic inches	→	cubic centimetres	16.39
cubic centimetres	→	cubic inches	0.06102
cubic feet	→	cubic metres	0.02832
cubic metres	→	cubic feet	35.315
cubic yards	→	cubic metres	0.7646
cubic metres	→	cubic yards	1.308
cubic inches	→	litres	0.01639
litres	→	cubic inches	61.03
pints	→	litres	0.5682
litres	→	pints	1.76
US pints	→	litres	0.47311
litres	→	US pints	2.114
US gallon	→	litres	3.785
gallons	→	litres	4.546
litres	→	US gallons	0.2642
litres	→	gallons	0.22
grains	→	grams	0.0648
grams	→	grains	15.43
ounces	→	grams	28.35
grams	→	ounces	0.03527
pounds	→	grams	453.6
grams	→	pounds	0.002205
pounds	→	kilograms	0.4536
kilograms	→	pounds	2.205
tons	→	kilograms	1016.05
kilograms	→	tons	0.0009842
nautical miles	→	kilometres	1.852
nautical miles	→	miles	1.150779

AREA

From		To	Multiply by
square inches	→	square millimetres	645.16
square millimetres	→	square inches	0.001550
square inches	→	square centimetres	6.452
square centimetres	→	square inches	0.155
square feet	→	square centimetres	929.03
square centimetres	→	square feet	0.001076
square metres	→	square feet	10.76
square feet	→	square metres	0.0929
square yards	→	square metres	0.8361
square metres	→	square yards	1.196
square miles	→	square kilometres	2.5899
square miles	→	hectares	0.25899
hectares	→	square miles	3.8612
square kilometres	→	square miles	0.3861
acres	→	square metres	4046.86
square metres	→	acres	0.000247
acres	→	hectares	0.4047
hectares	→	acres	2.471

VOLUME

From		To	Multiply by
cubic inches	→	cubic centimetres	16.39
cubic centimetres	→	cubic inches	0.06102
cubic inches:	→	cubic decimetres	16.387
cubic feet	→	cubic metres	0.02832
cubic metres	→	cubic feet	35.315
cubic feet	→	cubic inches	1,728
cubic feet	→	cubic decimetres	28.316
cubic yards	→	cubic metres	0.7646
cubic metres	→	cubic yards	1.308
cubic inches	→	litres	0.01639
litres	→	cubic inches	61.03

MASS & WEIGHT

From		To	Multiply by
grams	→	grains	15.43
grains	→	grams	0.0648
ounces	→	grams	28.349
grams	→	ounces	0.03527
pounds	→	grams	453.59
grams	→	pounds	0.002205
pounds	→	kilograms	0.45359
kilograms	→	pounds	2.205
tons	→	kilograms	1016.05
kilograms	→	tons	0.0009842
tons	→	tonnes	1.016
tonnes	→	tons	0.9842

VELOCITY

From		To	Multiply by
miles/hour	→	kilometres/hour	1.609
kilometres/hour	→	miles/hour	0.6117
feet/second	→	metres/second	0.305
metres/second	→	feet/second	3.279
feet/minute	→	metres/second	0.00508
metres/second	→	feet/minute	196.74
feet/minute	→	metres/minute	0.305

POWER

From		To	Multiply by
kilowatts	→	horsepower	1.3405
metric horsepower	→	horsepower	0.9859
metric horsepower	→	foot pounds-force per second	542.4754

FORCE

From		To	Multiply by
kilonewtons	→	pounds (f)	224.8
pounds (f)	→	kilonewtons	0.004448
kilonewtons	→	tons (f)	0.10036
tons (f)	→	kilonewtons	9.96401
kilonewtons	→	kilograms (f)	102.0
kilograms (f)	→	kilonewtons	0.009807

BOLT STRENGTH GRADES & HEAD MARKINGS

IMPERIAL GRADES

Grade 5
Tensile Strength = 120,000 lbs/in²
Designated by 3 radial lines on the head (refer AS 2465)

Grade 8
Tensile Strength = 150,000 lbs/in²
Designated by 6 radial lines on the head (refer AS 2465)

L 9

Grade 9
Tensile Strength = 180,000 lbs/in²
Designated by 9 radial lines on the head (refer AS 2465)

METRIC CLASSES

8.8

Property Class 8.8
Tensile Strength = 800 Mpa
On metric high tensile bolts the relevant property class is indicated on the head (refer AS1110).

10.9

Class 10.9
Tensile Strength = 1,000 Mpa
On metric high tensile bolts the relevant property class is indicated on the head (refer AS1110)

8.8

Structural Assemblies Class 8.8
Tensile Strength = 800 Mpa
On structural bolts the relevant property class is indicated on the head (refer AS1252)

STAINLESS STEEL

A2-70

304 (A2) Stainless Steel
Tensile Strength = 700 Mpa
General purpose stainless steel with good resistance to corrosion.

A4-70

316 (A4) Stainless Steel
Tensile Strength = 700 Mpa
Marine grade stainless steel with high resistance to corrosion.

A4-80

316 (A4) Stainless Steel
Tensile Strength = 800 Mpa
High Tensile stainless steel with high resistance to corrosion.

TOTAL RANGE OF TOOLS - CUTTING, CARBIDE & THREADING

- CARBIDE BURS & SETS
- CENTRES - LIVE
- CHUCKS
- DEBURRING TOOLS
- DIENUTS & DIE SETS
- ENDMILLS & UNIMILLS – PLAIN & SCREWED SHANK
- HIGH PERFORMANCE - DRILLS, TAPS & MILLS
- DRILLS
  - *HOLE ENLARGING STEP – HSS*
  - *MASONRY, GLASS & TILE*
  - *SETS & STANDS*
  - *SLOT - PLAIN, SCREWED SHANK & HIGH PERFORMANCE*
  - *STRAIGHT SHANK, CENTRE, COMBINED & COUNTERSUNK*
  - *TAPER & REDUCED SHANK*
- HOLESAWS, HOLESAW SETS & ACCESSORIES
- REAMERS & REAMER SETS
- TAP WRENCHES
- TAPS – STRAIGHT, SPIRAL, MACHINE & FLUTELESS
- WOODRUFF CUTTERS

MEREDITH DISTRIBUTION PRODUCT RANGE

- NUTS & BOLTS
- CUTTING TOOLS
- SAFETY
- MAINTENANCE PRODUCTS
- HAND TOOLS
- ABRASIVES
- LIFTING & MATERIALS HANDLING

Disclaimer: The data contained in this publication is provided as a guide only. While all care has been taken with preparation, no responsibility is accepted for the absolute accuracy of the information provided.