

BSA - SECTION L

D14/4 CONVERSION TABLES L1

INDEX

Page

INCHES/DECIMALS TO MILLIMETRES	L2
FRACTIONS TO DECIMALS AND MILLIMETRES	L3
MILLIMETRES TO INCHES	L4
DRILL SIZES AND WIRE GAUGES	L5
B.S.F. AND B.S.W. SCREW THREADS	L6
B.S.C. SCREW THREADS	L7
UNIFIED SCREW THREADS	L8
B.A. SCREW THREADS	L9
MILES PER GALLON TO LITRES PER 100 KILOMETRES	L9
GALLONS TO LITRES	L9
PINTS TO LITRES	L10
POUNDS PER SQUARE INCH TO KILO GRAMS PER SQUARE CENTIMETRE . .	L10
FOOT POUNDS TO KILOGRAMMETRES	L10
MILES TO KILOMETRES	L10
POUNDS TO KILOGRAMS	L10

D14/4 CONVERSION TABLES L2

INCHES TO MILLIMETRES UNITS

Inches 0 10 20 30 40

0 0 254.0 508.0 762.0 1016.0

1 1 25.4 279.4 533.4 787.4 1041.4

2 2 50.8 304.8 558.8 812.8 1066.8

3 3 76.2 330.2 584.2 838.2 1092.2

4 4 101.6 355.6 609.6 863.6 1117.6

5 5 127.0 381.0 635.0 889.0 1143.0

6 6 152.4 406.4 660.4 914.4 1168.4

7 7 177.8 431.8 685.8 939.8 1193.8

8 8 203.2 457.2 711.2 965.2 1219.2

9 9 228.6 482.6 736.6 990.6 1244.6

ONE INCH - 25.399978 millimetres.

ONE METRE - 39.370113 inches.

ONE MILE - 1.6093 kilos.

ONE KILO - .62138 miles.

DECIMALS TO MILLIMETRES FRACTIONS

1/1000 1/100 1/10

Inches Mm. Inches Mm. Inches Mm.

.001 .0254 .01 .254 .1 2.54

.002 .0508 .02 .508 .2 5.08

.003 .0762 .03 .762 .3 7.62

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

.004 .1016 .04 1.016 .4 10.16
.005 .1270 .05 1.270 .5 12.70
.006 .1524 .06 1.524 .6 15.24
.007 .1778 .07 1.778 .7 17.78
.008 .2032 .08 2.032 .8 20.32
.009 .2286 .09 2.286 .9 22.86

D14/4 CONVERSION TABLES L3

FRACTIONS TO DECIMALS AND MILLIMETRES

FRACTIONS DECIMALS MM. FRACTIONS DECIMALS MM.

1/64 .015625 .3969 33/64 .515625 13.0969
1/32 .03125 .7937 17/32 .53125 13.4937
3/64 .046875 1.1906 35/64 .546875 13.8906
1/16 .0625 1.5875 9/16 .5625 14.2875
5/64 .078125 1.9844 37/64 .578125 14.6844
3/32 .09375 2.3812 19/32 .59375 15.0812
7/64 .109375 2.7781 39/64 .609375 15.4781
1/8 .125 3.1750 5/8 .625 15.8750
9/64 .140625 3.5719 41/64 .640625 16.2719
5/32 .15625 3.9687 21/32 .65625 16.6687
11/64 .171875 4.3656 43/64 .671875 17.0656
3/16 .1875 4.7625 11/16 .6875 17.4625
13/64 .203125 5.1594 45/64 .708125 17.8594
7/32 .21875 5.5562 23/32 .71875 18.2562
15/64 .234375 5.9531 47/64 .734375 18.6531
1/4 .25 6.3500 3/4 .75 19.0500
17/64 .265625 6.7469 49/64 .765625 19.4469
9/32 .28125 7.1437 25/32 .78125 19.8437
19/64 .296875 7.5406 51/64 .796875 20.2406
5/16 .3125 7.9375 13/16 .8125 20.6375
21/64 .328125 8.3344 53/64 .828125 21.0344
11/32 .34375 8.7312 27/32 .84375 21.4312
23/64 .359375 9.1281 55/64 .859375 21.8281
3/8 .375 9.5250 7/8 .875 22.2250
25/64 .390625 9.9219 57/64 .890625 22.6219
13/32 .40625 10.3187 29/32 .90625 23.0187
27/64 .421875 10.7156 59/64 .921875 23.4156
7/16 .4375 11.1125 15/16 .9375 23.8125
29/64 .453125 11.5094 61/64 .953125 24.2094
15/32 .46875 11.9062 31/32 .96875 24.6062
31/64 .484375 12.3031 63/64 .984375 25.0031
1/2 .5 12.7000 1 25.4000

D14/4 CONVERSION TABLES L4

MILLIMETRES TO INCHES UNITS

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

MM. 0 1 02 03 04 0

0 0 .39370 .78740 1.18110 1.57480

1 1 .03937 .43307 .82677 1.22047 1.61417

2 2 .07874 .47244 .86614 1.25984 1.65354

3 3 .11811 .51181 .90551 1.29921 1.69291

4 4 .15748 .55118 .94488 1.33858 1.73228

5 5 .19685 .59055 .98425 1.37795 1.77165

6 6 .23622 .62992 1.02362 1.41732 1.81103

7 7 .27559 .66929 1.06299 1.45669 1.85040

8 8 .31496 .70866 1.10236 1.49606 1.88977

9 9 .35433 .74803 1.14173 1.53543 1.92914

MM. 50 60 70 80 90

0 0 1.96851 2.36221 2.75591 3.14961 3.54331

1 1 2.00788 2.40158 2.79528 3.18891 3.58268

2 2 2.04725 2.44095 2.83465 3.22835 3.62205

3 3 2.08662 2.48032 2.87402 3.26772 3.66142

4 4 2.12599 2.51969 2.91339 3.30709 3.70079

5 5 2.16536 2.55906 2.95276 3.34646 3.74016

6 6 2.20437 2.59843 2.99213 3.38583 3.77953

7 7 2.24410 2.63780 3.03150 3.42520 3.81890

8 8 2.28347 2.67717 3.07087 3.46457 3.85827

9 9 2.32284 2.71654 3.11024 3.50394 3.89764

MILLIMETRES TO INCHES FRACTIONS

1/1000 1/1000 1/1000

MM. INCHES MM. INCHES MM. INCHES

0.001 .000039 0.01 .00039 0.1 .00394

0.002 .000079 0.02 .00079 0.2 .00787

0.003 .000118 0.03 .00118 0.3 .01181

0.004 .000157 0.04 .00157 0.4 .01575

0.005 .000197 0.05 .00197 0.5 .01969

0.006 .000236 0.06 .00236 0.6 .02362

0.007 .000276 0.07 .00276 0.7 .02756

0.008 .000315 0.08 .00315 0.8 .03150

0.009 .000354 0.09 .00354 0.9 .03543

D14/4 CONVERSION TABLES L5

DRILL SIZES

LETTER SIZE LETTER SIZE NUMBER SIZE NUMBER SIZE NUMBER SIZE NUMBER SIZE

A .234 N .302 1 .2280 14 .1820 27 .1440 40 .0980

B .238 O .316 2 .2210 15 .1800 28 .1405 41 .0960

C .242 P .323 3 .2130 16 .1770 29 .1360 42 .0935

D .246 Q .332 4 .2090 17 .1730 30 .1285 43 .0890

E .250 R .339 5 .2055 18 .1695 31 .1200 44 .0860

F .257 S .348 6 .2040 19 .1660 32 .1160 45 .0820

G .261 T .358 7 .2010 20 .1610 33 .1130 46 .0810

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

H .266 U .368 8 .1990 21 .1590 34 .1110 47 .0785
I .272 V .377 9 .1960 22 .1570 35 .1100 48 .0760
J .277 W .386 10 .1935 23 .1540 36 .1065 49 .0730
K .281 X .397 11 .1910 24 .1520 37 .1040 50 .0700
L .290 Y .404 12 .1890 25 .1495 38 .1015 51 .0670
M .295 Z .413 13 .1850 26 .1470 39 .0995 52 .0635

WIRE GAUGES

NO. OF

GAUGE IMPERIAL STANDARD

WIRE GAUGE BROWN & SHARPE'S

AMERICAN WIRE GAUGE

INCHES MILLIMETRES INCHES MILLIMETRES

0000 .400 10.160

000 .372 9.448

00 .348 8.839

0 .324 8.299

1 .300 7.620 .365 9.265

2 .276 7.010 .325 8.251

3 .252 6.400 .289 7.348

4 .232 5.892 .258 6.543

5 .212 5.384 .229 5.827

6 .192 4.676 .204 5.189

7 .176 4.470 .182 4.621

8 .160 4.064 .162 4.115

9 .144 3.657 .144 3.664

10 .128 3.251 .128 3.263

11 .116 2.946 .114 2.906

12 .104 2.641 .102 2.588

13 .092 2.336 .091 2.304

14 .080 2.032 .081 2.052

15 .072 1.828 .072 1.827

16 .064 1.625 .064 1.627

17 .056 1.422 .057 1.449

18 .048 1.219 .051 1.290

19 .040 1.016 .045 1.149

20 .036 .914 .040 1.009

21 .032 .812 .035 .911

22 .028 .711 .032 .811

23 .024 .609 .028 .722

24 .022 .558 .025 .643

25 .020 .508 .023 .573

26 .018 .457 .020 .511

27 .016 .416 .018 .454

28 .0148 .375 .016 .404

29 .0136 .345 .014 .360

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

30 .0124 .314 .012 .321

D14/4 CONVERSION TABLES L6

B.S.F. SCREW THREADS

PITCH DIAMETER HEX.

NUT BOLT FLATS CORNERS DIA. OF

BOLT

(INCH) THREADS

PER

INCH DIA. TAP

DRILL

(INCH) CORE

DIA. AREA AT

THD.

ROOT

SQ. IN. MAX. MIN. MAX. MIN. (MEAN) NUT

THICKNESS

(MEAN)

7/32 28 .1770 .1731 .0235 .2018 .1980 .1960 .1922 .412 .48 .166

1/4 26 .2055 .2007 .0316 .2313 .2274 .2254 .2215 .442 .51 .195

9/32 26 .238 .2320 .0423 .2625 .0586 .2565 .2527

5/16 22 .261 .2543 .0508 .2897 .2854 .2834 .2791 .522 .61 .245

3/8 20 .316 .3110 .0760 .3495 .3450 .3430 .3385 .597 .69 .307

7/16 18 3/8 .3664 .1054 .4086 .4039 .4019 .3372 .707 .82 .370

1/2 16 27/64 .4200 .1385 .4670 .4620 .4600 .4550 .817 .95 .432

9/16 16 .492 .4825 .1828 .5295 .5245 .5225 .5175 .917 1.06 .495

5/8 14 35/64 .5335 .2235 .5866 .5813 .5793 .5740 1.006 1.17 .557

11/16 14 39/64 .5960 .2790 .6491 .6438 .6418 .6365 1.096 1.27 .620

3/4 12 21/32 .6433 .3250 .7044 .6986 .6966 .6908 1.196 1.39 .682

13/16 12 23/32 .7058 .3913 .7669 .7611 .7591 .7533

7/8 11 25/32 .7586 .4520 .8248 .8188 .8168 .8108 1.296 1.50 .745

1 10 57/64 .8719 .5971 .9443 .9380 .9360 .9297 1.474 1.71 .870

1-1/8 9 1 .9827 .7585 1.0626 1.0559 1.0539 1.0472 1.664 1.98 .995

1-1/4 9 1-1/8 1.1077 .9637 1.1876 1.1809 1.1789 1.1722 1.852 2.15 1.115

1-3/8 8 1-15/64 1.2149 .1593 1.3041 1.2970 1.2950 1.2879 2.042 2.37 1.240

1-1/2 8 1.358 1.3399 .4100 1.4291 1.4220 1.4200 1.4129 2.210 2.56 1.365

1-5/8 8 1-31/64 1.4649 1.6854 1.5541 1.5470 1.5450 1.5379 2.400 2.78 1.400

B.S.W. SCREW THREADS

PITCH DIAMETER HEX.

NUT BOLT FLATS CORNERS DIA. OF

BOLT

(INCH) THREADS

PER

INCH DIA. TAP

DRILL

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

(INCH) CORE

DIA. AREA AT

THD.

ROOT

SQ. IN. MAX. MIN. MAX. MIN. (MEAN) NUT

THICKNESS

(MEAN)

1/4	20	.1968	.1860	.0272	.2245	.2200	.2180	.2135	.522	.61	.245
5/16	18	1/4	.2412	.0458	.2836	.2789	.2769	.2722	.597	.69	.307
3/8	16	5/16	.2950	.0683	.3420	.3370	.3350	.3300	.707	.82	.370
7/16	14	23/64	.3460	.0940	.3991	.3938	.3918	.3865	.817	.95	.432
1/2	12	13/32	.3933	.1215	.4544	.4486	.4466	.4408	.917	1.06	.495
9/16	12	15/32	.4558	.1632	.5169	.5111	.5091	.5033	1.006	1.17	.557
5/8	11	17/32	.5086	.2032	.5748	.5688	.5668	.5608	1.096	1.27	.620
11/16	11	37/64	.5711	.2562	.6313	.6293	1.196	1.39	.682		
3/4	10	41/64	.6219	.3038	.6943	.6880	.6860	.6797	1.296	1.50	.745
13/16	10	45/64	.6844	.3679	.7506	.7485					
7/8	9	3/4	.7327	.4216	.8126	.8059	.8039	.7972	1.474	1.71	.870
15/16	9	3/16	.7952	.4966	.8684	.8664					
1	8	55/64	.8399	.5540	.9291	.9220	.9200	.9129	1.664	1.93	.995

D14/4 CONVERSION TABLES L7

B.S.C. SCREW THREADS

THDS. PER INCH BASIC DIAMETERS (INCH) DIA. OF

BOLT

(INCH) NORMAL

SERIES 20

T.P.I.

SERIES PITCH

(INCH) DEPTH OF

THREAD

(INCH) MAJOR EFFECTIVE MINOR

1/8	40	0.02500	0.0133	0.1250	0.1117	0.0984
5/32	32	0.03125	0.0166	0.1563	0.1397	0.1231
3/16	32	0.03125	0.0166	0.1875	0.1709	0.1543
7/32	26	0.03846	0.0205	0.2188	0.1983	0.1778
1/4	26	0.03846	0.0205	0.2500	0.2295	0.2090
9/32	26	0.03846	0.0205	0.2813	0.2608	0.2403
5/16	26	0.03846	0.0205	0.3125	0.2920	0.2715
3/8	26	0.03846	0.0205	0.3750	0.3545	0.3340
7/16	{ 26	0.03846	0.0205	0.4375	0.4170	0.3965
7/16	{ 20	0.05000	0.0266	0.4375	0.4109	0.3843
1/2	{ 26	0.03846	0.0205	0.5000	0.4795	0.4590
1/2	{ 20	0.05000	0.0266	0.5000	0.4734	0.4468
9/16	{ 26	0.03846	0.0205	0.5625	0.5420	0.5215

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

9/16 { 20 0.05000 0.0266 0.5625 0.5359 0.5093
5/8 { 26 0.03846 0.0205 0.6250 0.6045 0.5840
5/8 { 20 0.05000 0.0266 0.6250 0.5984 0.5718
11/16 { 26 0.03846 0.0205 0.6875 0.6670 0.6465
11/16 { 20 0.05000 0.0266 0.6875 0.6609 0.6343
3/4 { 26 0.03846 0.0205 0.7500 0.7295 0.7090
3/4 { 20 0.05000 0.0266 0.7500 0.7234 0.6968

D14/4 CONVERSION TABLES L8
UNIFIED SCREW THREADS
FINE (UN.F.)
BASIC DIMENSIONS (INCH) DIAMETER
(INCH) THREADS
PER INCH DEPTH OF
THREAD
(INCH) MAJOR DIA. EFFECTIVE
DIA. MINOR DIA.

¼ 28 0.0217 0.2457 0.2241 0.2022
5/16 24 0.0254 0.3078 0.2824 0.2569
3/8 24 0.0254 0.3703 0.3449 0.3194
7/16 20 0.0305 0.4321 0.4016 0.3710
½ 20 0.0305 0.4946 0.4641 0.4334
9/16 18 0.0341 0.5568 0.5227 0.4886
5/8 1