Millimetres to Inches Conversion Chart

Decimal inches with the nearest 1/64 inch

For: Machinists, makers, engineers and anyone reading metric drawings

allunitconversions.com/mm-to-in-conversion-chart
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EXACT DEFINITION	FORMULA	REVERSE	WORKED EXAMPLE
1 inch = 25.4 mm exactly, so 1 mm = 0.039 370 08 in	in = mm ÷ 25.4	mm = in × 25.4	10 mm ÷ 25.4 = 0.3937 in ≈ 25/64 in

Decimal inches are rounded to 4 places; fractions show the nearest 1/64 in.

1 to 100 mm

Millimetres (mm)	Inches (in)	Nearest 1/64 in	Millimetres (mm)	Inches (in)	Nearest 1/64 in
1	0.0394	≈ 3/64	**51**	2.0079	≈ 2 1/64
2	0.0787	≈ 5/64	**52**	2.0472	≈ 2 3/64
3	0.1181	≈ 1/8	**53**	2.0866	≈ 2 3/32
4	0.1575	≈ 5/32	**54**	2.1260	≈ 2 1/8
5	0.1969	≈ 13/64	**55**	2.1654	≈ 2 11/64
6	0.2362	≈ 15/64	**56**	2.2047	≈ 2 13/64
7	0.2756	≈ 9/32	**57**	2.2441	≈ 2 1/4
8	0.3150	≈ 5/16	**58**	2.2835	≈ 2 9/32
9	0.3543	≈ 23/64	**59**	2.3228	≈ 2 21/64
10	0.3937	≈ 25/64	**60**	2.3622	≈ 2 23/64
11	0.4331	≈ 7/16	**61**	2.4016	≈ 2 13/32
12	0.4724	≈ 15/32	**62**	2.4409	≈ 2 7/16
13	0.5118	≈ 33/64	**63**	2.4803	≈ 2 31/64
14	0.5512	≈ 35/64	**64**	2.5197	≈ 2 33/64
15	0.5906	≈ 19/32	**65**	2.5591	≈ 2 9/16
16	0.6299	≈ 5/8	**66**	2.5984	≈ 2 19/32
17	0.6693	≈ 43/64	**67**	2.6378	≈ 2 41/64
18	0.7087	≈ 45/64	**68**	2.6772	≈ 2 43/64
19	0.7480	≈ 3/4	**69**	2.7165	≈ 2 23/32
20	0.7874	≈ 25/32	**70**	2.7559	≈ 2 3/4
21	0.8268	≈ 53/64	**71**	2.7953	≈ 2 51/64
22	0.8661	≈ 55/64	**72**	2.8346	≈ 2 53/64
23	0.9055	≈ 29/32	**73**	2.8740	≈ 2 7/8
24	0.9449	≈ 15/16	**74**	2.9134	≈ 2 29/32
25	0.9843	≈ 63/64	**75**	2.9528	≈ 2 61/64
26	1.0236	≈ 1 1/32	**76**	2.9921	≈ 2 63/64
27	1.0630	≈ 1 1/16	**77**	3.0315	≈ 3 1/32
28	1.1024	≈ 1 7/64	**78**	3.0709	≈ 3 5/64
29	1.1417	≈ 1 9/64	**79**	3.1102	≈ 3 7/64
30	1.1811	≈ 1 3/16	**80**	3.1496	≈ 3 5/32
31	1.2205	≈ 1 7/32	**81**	3.1890	≈ 3 3/16
32	1.2598	≈ 1 17/64	**82**	3.2283	≈ 3 15/64
33	1.2992	≈ 1 19/64	**83**	3.2677	≈ 3 17/64

Millimetres (mm)	Inches (in)	Nearest 1/64 in
34	1.3386	≈ 1 11/32
35	1.3780	≈ 1 3/8
36	1.4173	≈ 1 27/64
37	1.4567	≈ 1 29/64
38	1.4961	≈ 1 1/2
39	1.5354	≈ 1 17/32
40	1.5748	≈ 1 37/64
41	1.6142	≈ 1 39/64
42	1.6535	≈ 1 21/32
43	1.6929	≈ 1 11/16
44	1.7323	≈ 1 47/64
45	1.7717	≈ 1 49/64
46	1.8110	≈ 1 13/16
47	1.8504	≈ 1 27/32
48	1.8898	≈ 1 57/64
49	1.9291	≈ 1 59/64
50	1.9685	≈ 1 31/32

Millimetres (mm)	Inches (in)	Nearest 1/64 in
84	3.3071	≈ 3 5/16
85	3.3465	≈ 3 11/32
86	3.3858	≈ 3 25/64
87	3.4252	≈ 3 27/64
88	3.4646	≈ 3 15/32
89	3.5039	≈ 3 1/2
90	3.5433	≈ 3 35/64
91	3.5827	≈ 3 37/64
92	3.6220	≈ 3 5/8
93	3.6614	≈ 3 21/32
94	3.7008	≈ 3 45/64
95	3.7402	≈ 3 47/64
96	3.7795	≈ 3 25/32
97	3.8189	≈ 3 13/16
98	3.8583	≈ 3 55/64
99	3.8976	≈ 3 57/64
100	3.9370	≈ 3 15/16

110 to 1000 mm

Millimetres (mm)	Inches (in)
110	4.331
120	4.724
130	5.118
140	5.512
150	5.906
160	6.299
170	6.693
180	7.087
190	7.480
200	7.874
210	8.268
220	8.661
230	9.055
240	9.449
250	9.843

Millimetres (mm)	Inches (in)
260	10.236
270	10.630
280	11.024
290	11.417
300	11.811
310	12.205
320	12.598
330	12.992
340	13.386
350	13.780
360	14.173
370	14.567
380	14.961
390	15.354
400	15.748

Millimetres (mm)	Inches (in)
410	16.142
420	16.535
430	16.929
440	17.323
450	17.717
460	18.110
470	18.504
480	18.898
490	19.291
500	19.685
600	23.622
700	27.559
800	31.496
900	35.433
1,000	39.370

Sources and method

- **International Yard and Pound Agreement (1959)** — 1 in = 25.4 mm, 1 ft = 0.3048 m, 1 lb = 0.453 592 37 kg exactly
- **NIST Special Publication 811** — Guide for the Use of the International System of Units (www.nist.gov/pml/special-publication-811)

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