

# Overview of tooth shapes

# Conversion mm / inch

One-sided bevel tooth  
ES

One-sided bevel tooth with bevel  
ES / FA

Square tooth  
FZ

Square tooth with bevel  
FZ / FA

Square tooth/trapezoidal tooth  
FZ / TR

Alternate top bevel teeth  
WZ

Alternate top bevel teeth with bevel  
WZ / FA

Combinations of tooth forms  
WZ / WZ / FZ

Hollow tooth  
HZ

Hollow tooth/inverted V-tooth  
HZ / DZ

Hollow tooth with bevel  
HZ / FA

Trapezoidal tooth  
TR

Trapezoidal tooth/trapezoidal tooth  
TR / TR

Square tooth conical  
KON / FZ

Alternate top teeth conical  
KON / WZ

Square tooth with bevel alternating  
FZFA / FZFA

1 mm = 0,039 inch		1 inch = 25,4 mm			
mm	inch	mm	inch		
0,10	= 0,004	11	= 0,433	110	= 4,331
0,20	= 0,008	12	= 0,472	120	= 4,724
0,30	= 0,012	13	= 0,512	130	= 5,118
0,40	= 0,016	14	= 0,551	140	= 5,512
0,50	= 0,020	15	= 0,591	150	= 5,906
0,60	= 0,024	16	= 0,630	160	= 6,299
0,70	= 0,028	17	= 0,669	170	= 6,693
0,80	= 0,031	18	= 0,709	180	= 7,087
0,90	= 0,035	19	= 0,748	190	= 7,480
1,00	= 0,039	20	= 0,787	200	= 7,874
1,10	= 0,043	21	= 0,827	210	= 8,268
1,20	= 0,047	22	= 0,866	220	= 8,661
1,30	= 0,051	23	= 0,906	230	= 9,055
1,40	= 0,055	24	= 0,945	240	= 9,449
1,50	= 0,059	25	= 0,984	250	= 9,843
1,60	= 0,063	26	= 1,024	260	= 10,236
1,70	= 0,067	27	= 1,063	270	= 10,630
1,80	= 0,071	28	= 1,102	280	= 11,024
1,90	= 0,075	29	= 1,142	290	= 11,417
2,00	= 0,079	30	= 1,181	300	= 11,811
2,10	= 0,083	31	= 1,220	310	= 12,205
2,20	= 0,087	32	= 1,260	320	= 12,598
2,30	= 0,091	33	= 1,299	330	= 12,992
2,40	= 0,094	34	= 1,339	340	= 13,386
2,50	= 0,098	35	= 1,378	350	= 13,780
2,60	= 0,102	36	= 1,417	360	= 14,173
2,70	= 0,106	37	= 1,457	370	= 14,567
2,80	= 0,110	38	= 1,496	380	= 14,961
2,90	= 0,114	39	= 1,535	390	= 15,354
3,00	= 0,118	40	= 1,575	400	= 15,748
3,10	= 0,122	41	= 1,614	410	= 16,142
3,20	= 0,126	42	= 1,654	420	= 16,535
3,30	= 0,130	43	= 1,693	430	= 16,929
3,40	= 0,134	44	= 1,732	440	= 17,323
3,50	= 0,138	45	= 1,772	450	= 17,717
3,60	= 0,142	46	= 1,811	460	= 18,110
3,70	= 0,146	47	= 1,850	470	= 18,504
3,80	= 0,150	48	= 1,890	480	= 18,898
3,90	= 0,154	49	= 1,929	490	= 19,291
4,00	= 0,157	50	= 1,969	500	= 19,685
4,10	= 0,161	51	= 2,008	510	= 20,079
4,20	= 0,165	52	= 2,047	520	= 20,472
4,30	= 0,169	53	= 2,087	530	= 20,866
4,40	= 0,173	54	= 2,126	540	= 21,260
4,50	= 0,177	55	= 2,165	550	= 21,654
4,60	= 0,181	56	= 2,205	560	= 22,047
4,70	= 0,185	57	= 2,244	570	= 22,441
4,80	= 0,189	58	= 2,283	580	= 22,835
4,90	= 0,193	59	= 2,323	590	= 23,228
5,00	= 0,197	60	= 2,362	600	= 23,622
5,10	= 0,201	61	= 2,402	610	= 24,016
5,20	= 0,205	62	= 2,441	620	= 24,409
5,30	= 0,209	63	= 2,480	630	= 24,803
5,40	= 0,213	64	= 2,520	640	= 25,197
5,50	= 0,217	65	= 2,559	650	= 25,591
5,60	= 0,220	66	= 2,598	660	= 25,984
5,70	= 0,224	67	= 2,638	670	= 26,378
5,80	= 0,228	68	= 2,677	680	= 26,772
5,90	= 0,232	69	= 2,717	690	= 27,165
6,00	= 0,236	70	= 2,756	700	= 27,559
6,10	= 0,240	71	= 2,795	710	= 27,953
6,20	= 0,244	72	= 2,835	720	= 28,346
6,30	= 0,248	73	= 2,874	730	= 28,740
6,40	= 0,252	74	= 2,913	740	= 29,134
6,50	= 0,256	75	= 2,953	750	= 29,528
6,60	= 0,260	76	= 2,992	760	= 29,921
6,70	= 0,264	77	= 3,031	770	= 30,315
6,80	= 0,268	78	= 3,071	780	= 30,709
6,90	= 0,272	79	= 3,110	790	= 31,102
7,00	= 0,276	80	= 3,150	800	= 31,496
7,10	= 0,280	81	= 3,189	810	= 31,890
7,20	= 0,283	82	= 3,228	820	= 32,283
7,30	= 0,287	83	= 3,268	830	= 32,677
7,40	= 0,291	84	= 3,307	840	= 33,071
7,50	= 0,295	85	= 3,346	850	= 33,465
7,60	= 0,299	86	= 3,386	860	= 33,858
7,70	= 0,303	87	= 3,425	870	= 34,252
7,80	= 0,307	88	= 3,465	880	= 34,646
7,90	= 0,311	89	= 3,504	890	= 35,039
8,00	= 0,315	90	= 3,543	900	= 35,433
8,10	= 0,319	91	= 3,583	910	= 35,827
8,20	= 0,323	92	= 3,622	920	= 36,220
8,30	= 0,327	93	= 3,661	930	= 36,614
8,40	= 0,331	94	= 3,701	940	= 37,008
8,50	= 0,335	95	= 3,740	950	= 37,402
8,60	= 0,339	96	= 3,780	960	= 37,795
8,70	= 0,343	97	= 3,819	970	= 38,189
8,80	= 0,346	98	= 3,858	980	= 38,583
8,90	= 0,350	99	= 3,898	990	= 38,976
9,00	= 0,354	100	= 3,937	1000	= 39,370
9,10	= 0,358				
9,20	= 0,362				
9,30	= 0,366				
9,40	= 0,370				
9,50	= 0,374				
9,60	= 0,378				
9,70	= 0,382				
9,80	= 0,386				
9,90	= 0,390				
10,00	= 0,394				