LINKING DIMENSIONS

Scratch building requires dealing with a variety of dimensional systems; not just English and metric, but also systems for wire, drills and hardware. This table attempts to link those that are most likely to be used. Each row represents a common diameter.

LINKING DIMENSIONS
1/8 SCALE MODELERS GUIDE

Dimensions					American* Wire Gauge			Selected Telescopic Round Brass Tubes				Clearance Drill Sizes			Hardware							Tap Drill Sizes**		
				Selected												(typical dimensions)					Rod Dia		Hole Dia for		
English		Metric		Full Size				Normal		Thin Wall					Size	Bolt Shaft		Hex Head (across flats)		for External Thread Die		Internal Thread Tap		
Fraction	Decimal		Round	Eqvlt				OD	ID	OD	ID	#	ins	mm		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(Drill Size)
in	in	mm	mm	(1/8 Scale)	Ga	ins	mm	(.014" Wall)		(.006" Wall)														
					28	0.014	0.36																	
1/64	0.016	0.40	0.4	1/8								78	0.016	0.41										
					26	0.017	0.43																	
					24	0.020	0.50					76	0.020	0.51	0.5mm	0.020	0.50	0.030	0.76	24 Gauge	0.50	0.015	0.37	79
				3/16								74	0.022	0.56	0000-160	0.021	0.53	0.047	1.19	23 Gauge	-	0.016	0.41	78
					22	0.025	0.64																	
1/32	0.031	0.79	0.8	1/4						1/32	1/64	68	0.031	0.79	0.8mm	0.031	0.80	0.042	1.07	1/32	0.80	0.024	0.61	73
					20	0.032	0.81																	
												66	0.033	0.84										
															000-120	0.034	0.86	0.078	1.98	0.036	-	0.026	0.66	71
												64	0.036	0.91										
				5/16	18	0.040	1.02					60	0.040	1.02	1.0mm	0.039	1.00	0.055	1.40	0.040	1.00	0.031	0.79	68
3/64	0.047	1.19	1.2	3/8						3/64	1/32	56	0.047	1.19	00-90	0.047	1.19	5/64	1.98	3/64	1.20	0.038	0.96	62
					16	0.051	1.30																	
															0-80	0.060	1.52	3/32	2.38	1/16	1.50	0.047	1.18	56
1/16	0.063	1.59		1/2	14	0.064	1.63	1/16	1/32	1/16	3/64	52	0.063	1.60										
															1-72	0.073	1.85	7/64	2.78	0.072	-	0.060	1.51	53
5/64	0.078	1.98	2.0	5/8				5/64	3/64	5/64	1/16				Pocher Rod	0.079	2.00			5/64	2.00	0.063	1.61	52
					12	0.081	2.06					46	0.081	2.06	2-56	0.084	2.13	1/8	3.18	0.086	-	0.067	1.70	51
3/32	0.094	2.38		3/4				3/32	1/16	3/32	5/64	42	0.094	2.39										
					10	0.102	2.59																	
7/64	0.109	2.78		7/8				7/64	5/64	7/64	3/32													
1/8	0.125	3.18		1				1/8	3/32	1/8	7/64													
9/64	0.141	3.57						9/64	7/64	9/64	1/8													
5/32	0.156	3.97	4.0	11/4				5/32	1/8	5/32	9/64													
11/64	0.172	4.37						11/64	9/64	11/64	5/32													
3/16	0.188	4.76		11/2				3/16	5/32	3/16	11/64													
13/64	0.203	5.16																						
7/32	0.219	5.56																						
15/64	0.234	5.95	6.0																					
1/4	0.250	6.35																						
17/64	0.266	6.75																						
9/32	0.281	7.14																				** Will result in approx. 75% - 80% of thread depth in "soft" metals and plastic.			
19/64	0.297	7.54																						
5/16	0.313	7.94	8.0																					