



TT Scale Standards Summary

Disclaimer: This summary is provided for modeling reference, and is based on the official NMRA Standards available at: <http://www.nmra.org/standards/sandrp/consist.html>

NMRA STANDARDS S-1 Standards for Scale Models

General - TT Scale	
	S-1.1 / S1.2

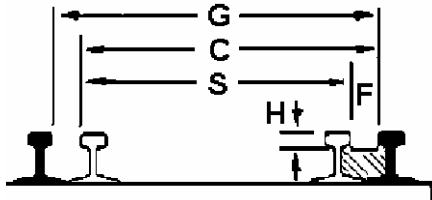
NAME OF SCALE	Alpha Numeric	Common/Fractional	SCALE		TRACK GAUGE		
			TO FOOT	PROPORTION	Min	Max	
TT (Historic)		1/10"	.100" (2.54 mm)	1:120	.470" (12.0 mm)		(prior to 2009)
TT		1/10"	.100" (2.54 mm)	1:120	.470" (11.94 mm)	.483" (12.27 mm)	
Fine:TT		1/10"	.100" (2.54 mm)	1:120	.471" (12.0 mm)	.485" (12.3 mm)	
TTn42		1/10"	.100" (2.54 mm)	1:120	.353" (8.97mm)	.367" (9.32 mm)	(See Note 5)
TTn3		1/10"	.100" (2.54 mm)	1:120	.300" (7.62 mm)	.314" (7.98 mm)	
Fine:TTn3		1/10"	.100" (2.54 mm)	1:120	.300" (7.6 mm)	.314" (8.0 mm)	

5. TTn42 uses N scale wheel and track geometries, as specified in S-3.2 and S-4.2.

NMRA STANDARDS S-2 Coupler Standards

Couplers - TT Scale	
	S-2

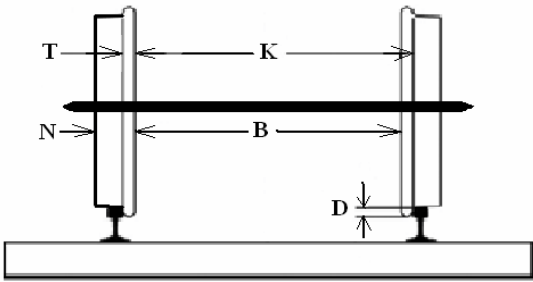
NAME OF SCALE	Alpha Numeric	PROPORTION	Coupler Height	REMARKS
TT		1:120	.281 (7.14 mm)	
TTn3		1:120	.219" (5.56 mm)	



Standards	
TT Scale Track	
	S-3.2

The Span, S, is derived by knowing $S = C - F$.
C is the primary controlling dimension.

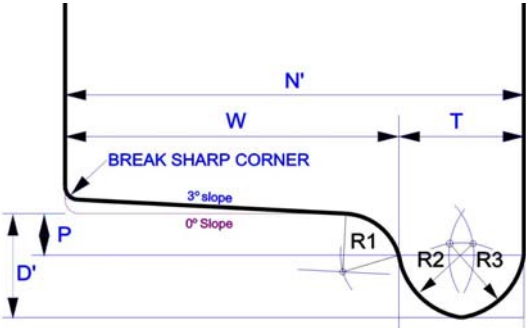
Scale	Scale Ratio	Standard S3.2 Guarded using Target and Asymmetric Imperial (inch) Tolerance													
		G			C			S			F			H	Wheel
		Gage at Frog			Check Gage			Span			Flangeway				
		Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	MIN	CODE
TT	1:120	0.473	0.006	0.002	0.439	0.003	0.002	0.403	0.002	0.002	0.034	0.002	0.005	0.023	79
TTn42	1:120	0.355	0.004	0.002	0.325	0.001	0.002	0.295	0.001	0.002	0.028	0.002	0.001	0.020	72
TTn3	1:120	0.302	0.004	0.002	0.272	0.002	0.002	0.242	0.002	0.002	0.028	0.002	0.002	0.020	72



Standards	
TT Scale Wheels	
	S-4.2

Back-to-Back, B, is derived by knowing $B = K - T$.
K is the primary controlling dimension.

Scale	Scale Ratio	Standard S4.2 Wheels using Target and Asymmetric Imperial (inch) Tolerance									
		K			B			N	D	T	
		Wheel Check Gage			Back-to-Back			Width	Depth	Flange Width	
		Target	Plus	Minus	Target	Plus	Minus	(Nom.)	Max	Nom	Tol
TT	1:120	0.435	0.002	0.008	0.415	0.002	0.008	0.079	0.026	0.020	+/- .002
TTn42	1:120	0.321	0.002	0.004	0.301	0.002	0.004	0.072	0.022	0.020	+/- .002
TTn3	1:120	0.268	0.002	0.004	0.248	0.002	0.004	0.072	0.022	0.020	+/- .002



Reccomended Practice	
Wheel Contour	
	RP - 25

CODE	TIRE WIDTH N	FLANGE WIDTH T	TREAD WIDTH W	FLANGE DEPTH D	GAGING POINT P	FILLET RADIUS R1	INNER RADIUS R2	OUTER RADIUS R3
88	.088	.025	.063	.023	.009	.012	.015	.015
79	.079	.023	.056	.020	.008	.011	.014	.014
72	.072	.020	.052	.020	.008	.010	.012	.012