



Proper Spacing of Hangers in Standard MonoRail

Location and spacing of suspension points for supporting MonoRail track and switches should be given every possible consideration in order to attain the greatest degree of safety together with a perfectly horizontal runway eliminating irregular grade effects caused by slight deflections in the rail. Adherence to spacing given in the table below as well as the suggested location of hangers indicated in the diagram at the top of this page will assure permanent support for the loads to be carried. Spacings have been accurately determined so that in no case will deflection in the rail

between hangers exceed $1/250$ th of the span nor will the load on any one bolt exceed 2500 pounds.

Note that the data given includes spacings for systems where one, two, three, four or more trolleys may be used. Where conditions make possible the concentration of two or more trolleys such loading must be considered and the proper hanger spacing provided.

In planning a system it will be advantageous to provide for any possible future increase in load conditions and provide support for such loads at the time of original installation.

TABLE OF HANGER SPACING FOR STANDARD MONORAIL

	TROLLEY LOADS	CATALOG NUMBER OF TROLLEY	ONE TROLLEY ONLY	TWO TROLLEYS	THREE TROLLEYS	FOUR OR MORE TROLLEYS
Aggregate Distributed Load	250 500 1000 1500 2000 2500 3000	Closely Placed Wheel Loads Evenly Distributed	<i>These hanger spacings are for straight runs. Spacings at curves and switch connections should be as shown above and in curve charts on pages 12 to 15. Hangers should be arranged to come within one foot either way from the center of lap splices.</i>			10 10 8 6 5 4 3½
Two Wheel Trolleys	250 500 750 1000	No. A188 No. A150 No. A157-A179	10 8 6 5	8 5 4 4	6 4 3½ 3	5 4 3 3
Four Wheel Trolleys	250 500	No. A189	10 8	8 5	7 4½	6 4
	500 750 1000	No. A165-A162	8 7 6	6 5 4	4½ 4 4	5 4 4
	1250 1500	No. A162	4½ 4	3½ 3½	3½ 3½	3½ 3½
	1000 1500 2000	No. A180	6 4½ 4	4 3½ 3½	3½ 3½ 3	3½ 3½ 3
Eight Wheel Trolleys	1000 1500 2000	No. A175-A171	7 6 5	5 5 4	5 5 4	5 5 4
	2500 3000	No. A171	4 3½	4 3½	4 3½	4 3½
	2000 2500 3000 3500 4000	No. A181	5 4½ 4 3½ 3	4 4 3½ 3 3	4 4 3½ 3 3	4 4 3½ 3 3

	Crane Number	Total Load on Crane Trolley Including Crane Weight	Max. Hanger Spacing
For Crane Runways Assuming One Crane Per Runway	#E596 & #E599	740 # /End Truck	8'-0"
		950 # /End Truck	7'-0"
		1280 # /End Truck	6'-0"
		2000 # /End Truck	5'-0"
	#E542, #E543, #E544, #E545 #E2242, #E2243	1400 # /End Truck	6'-0"
		1700 # /End Truck	5'-6"
		2000 # /End Truck	5'-0"
		2220 # /End Truck	4'-6"
		2500 # /End Truck	4'-0"
		3000 # /End Truck	3'-6"
	#E552, #E553, #E554, #E555, #E2244, #E2245, #E2294, #E2295	All Loadings	3'-0"