

AMERICAN CRANE RAILS



This section covers carbon steel crane rails of special designs and nominal weights of 104, 105, 135, 171, and 175 lbs. per yard for crane runway use. All of these rail sections are manufactured to ASTM A-759 specifications. Standard Control Cooled crane rails have a Brinell hardness of 250 to 280. As a supplement to the normal manufacturing process, crane rails can be head-hardened to a hardness of 321 to 388 Brinell. Crane rails are usually stocked in standard 39' lengths and are pre-drilled for tight-fit joint bars (see below). However, they are also available in 60' or 78' lengths and can be supplied with "blank ends" (no splice bar holes) for welding.

The standard drilling on the five crane rail sections is 4" X 5" x 6" with hole diameter and elevation as shown in the table below. The joint bars are punched on corresponding centers, except for the spacing between the two middle holes. The actual distance between these two holes is 7-15/16", or 1/16" less than the accumulated length (8") of the two rail ends to be covered by this portion of the joint bar. This allows the rail ends to be held firmly together, resulting in a "tight joint." Because of cumulative tolerance variations in holes, bolt diameters, and rail ends, a slight gap may sometimes occur in the so-called tight joints. Conversely, it may sometimes be necessary to ream holes through joint bar and rail to permit entry of bolts.

Crane Rail Section	Spacing Inches			Hole Dia. D	Elev. Inches E
	A	B	C		
104 lb.	4	5	6	1-1/16	2-7/16
105 lb.	4	5	6	15/16	2-13/64
135 lb.	4	5	6	1-3/16	2-15/32
171 lb.	4	5	6	1-3/16	2-5/8
175 lb.	4	5	6	1-3/16	2-21/32

