

Specifications :

- 1) A gantry girder section is subjected to vertical loads and horizontal loads simultaneously. Therefore, the allowable stresses are increased by 10%.
- 2) Either two of the horizontal forces specified should be considered to act along with the vertical loads at a time.
- 3) The vertical deflection of a gantry girder should not exceed the values specified below -
 - a) Where the cranes are manually operated $\frac{L}{325}$
 - b) Where the cranes are travelling overhead and operated electrically up to 500 kN - $\frac{L}{750}$
 - c) Where the cranes are travelling overhead and operated electrically over 500 kN $\frac{L}{1000}$

where

L = span of the gantry girder