

Design of 500 + 125t x 23m Span Ladle Crane for TSK

By Tata Steel | Category: Design Honour

Tata Steel received an order to supply a 500t Ladle Crane with a 35m lift for TSK. Before this, the maximum capacity for a crane designed by Tata Steel was 280t with a 26.5m lift. The total weight of the 280t crane was 498t, with a maximum wheel load of 70t. If Tata Steel follows the same design, then the estimated weight would be around 880t, with a maximum wheel load of 120t. Here, the challenge was to reduce the weight and maximum wheel load of the crane, which is required to reduce overall cost of the project (cost of crane, building and power consumption).

