

### Usefulness of E-Yantra Crane

E-Yantra Crane is a unique, indigenous, user-friendly software specially developed for the design and analysis of a crane and its elements. Almost every industry has material handling activity in one form or other. In view of limited capacity and hazards, manual handling is restricted and mechanized handling with various forms of cranes, conveyors, and mobile and moveable material handling systems are in vogue nowadays. These material handling systems are not off-the-shelf items; they have to be every time designed anew to meet customer specifications. It would be extremely useful to the manufacturer of material handling systems if a software like E-Yantra Crane or E-Yantra Conveyor is available so that design lead time can be reduced considerably and one can quote competitively for tenders in a short time. E-Yantra Crane has a design module where, given performance requirements, the material and dimensions of various elements of a crane along with two-dimensional sketches can be obtained. In addition, IGES/DXF file format is available for drawings which can be easily exported to solid modeling software such as Pro-E, Catia, Nastran, ANSYS, etc. The analysis module of E-Yantra Crane can be used for the reverse of a design where, knowing material and dimensions, the safe operating capacity of the crane can be determined.

E-Yantra Crane has the following modules to design every element of the crane as follows: It is based on IS Standards and "GOST" Russian Standards

1. Wire rope
2. Drum
3. Hoisting Motor
4. Hoisting Gearbox
5. Design of Crane Hook
6. Cross piece
7. Pulley
8. Design of Brake systems for travel units
9. Design of coupling
10. Cross travelling Motor
11. Cross travelling Gearbox
12. Longitudinal travelling Motor
13. Longitudinal travelling Gearbox
14. Crane Structure

In short, E-Yantra Crane software is highly useful for the material handling manufacturer. M/S FEAST Software Pvt Ltd can also customize this software for any BIS/American/DIN standards to meet the local environment at the manufacturer's plant.

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