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10 Appendix

9.1 DFM

Design for manufacture is a concept used in manufacturing engineering in order to define the better design for manufacture of a product.

9.2 UFOARM

User need, Functionality & Reliability, Operation and maintenance, Aesthetics, Retirement, Manufacturing ease. This is a concept used in designing a product.

9.3 Weight calculation

One Roller capable of taking a 250 tons+ load. Total load per mount is 500+ tons.

9.4 3R

Concept for waste material usage in an efficient way.

9.5 FEA

Finite element analysis is a method used in structural analysis of a component. Computer software is used for this.

9.6 SCR

Silicon Control Rectifier is a semiconductor electronic component that is used to control the motors and other electronic components. Mostly this can be used with alternative current.

9.7 Arudino

A circuit module that can be programmed by computer is used for electronic devices where complex motions and sensors are used.

9.8 GUI

Graphical User Interface is a computer picture showing the status of the data in a user friendly manner.

9.9 REBA

Rapid body assessment is an ergonomic tool used to evaluate the posture in action.

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