CAD - Changing Landscape of Manufacturing Industry

Product design development calls for collaboration between designers & manufacturers for design intent. This exchange of ideas has seen a big transition from paper to CAD and to model sharing integrated CAD platforms.

How CAD platforms changed manufacturing industry practices





Drawing Complexity

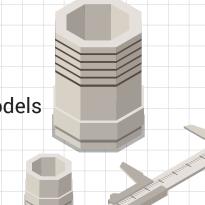
Simple Drawings:

Clumsy to show markups using drafting tools and large drawing sheets



With CAD Platforms:

Single software creates seamless drawings and models with neat footnotes



File Sharing

With drawing sheets:

File sharing meant carrying paper sheets and damaging design intelligence





Share files across teams and platforms without limitations using IGES/STEP files

Design Data Management

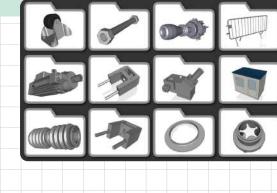


Heavily detailed paper drawings need storage space with limited upgradation in design

Digitized CAD allows developing

CAD library:

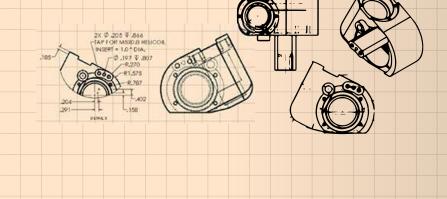
libraries where drawings can be saved, updated and reused

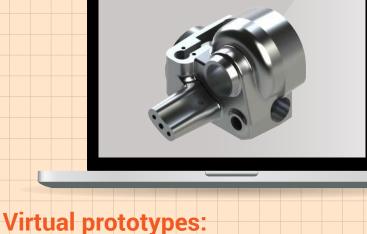


Proofs of Design Concepts

Physical tests: Developing prototypes for new design

testing and adding to project costs





3D CAD models act as virtual prototypes for design validation at no additional costs

Product Marketing

Investing heavily in photography for product marketing and sales brochure

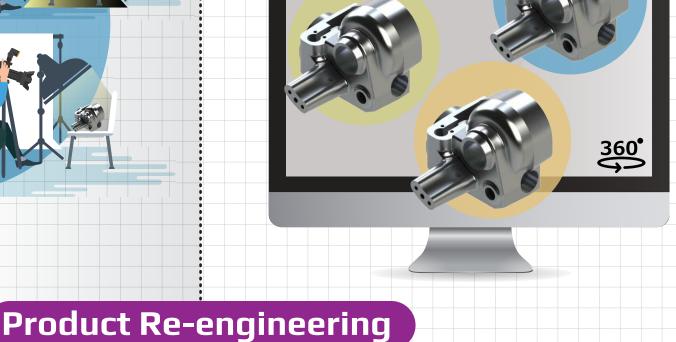
Photography:



rendering for marketing collaterals

Photorealistic rendering:

Use cost effective photorealistic



With CAD: Laser scanning and CAD model with value Without digital designs, remanufacturing a engineering helps easy remanufacturing

Without CAD:

part becomes difficult

CAD eases

design

Collaborative

With the digital revolution, evolved CAD platforms now offer

communication

be integrated and maintain data under one platform. **Integrated CAD offers Optimizing** Adoption of

centralized CAD database empowers better decision making with

free flow of information. Siloed information in ERP, CRM, PLM can

collaborative design approach for shared design data. The

modeling Manufacturing industry looks for new revolution ever since the adoption of digital designs. Major

Easy mass

customization

CNC

machine-ready

3D models

A revolution coming your way, embrace it, adopt it, and use it right to stay profitable!

designs while

breakthroughs with CAD platforms also bring along changeovers in the process.

Enhance quality

control with AI

AR/VR

technologies

Client speaks: "We need the projects drawn so the customer can

see what they will look like and the installers can

follow plans. The drawings were good. We will send more as the jobs come through." S.B., Design manager, Material handling equipment

