



PRADMAN

Experience the Engineering **Excellence**

Design and Engineering Services for machines and parts

2023

■ INTRODUCTION

Pradman Engineering Services Pvt Ltd, a preferred partner for OEMs, in service of Steel and Infrastructure Industry since 6 decades, is geared up to provide the following Design and Engineering Services:

- Computer Aided Design (CAD),
- Computer Aided Machining (CAM) and
- Production Management Services (Includes ERP and Production MIS).

Located at Rajkot (Gujarat), a very famous Foundry and Machinery Base in India, we have our own team of technically proficient CAD/CAM Engineers and Inspection Engineers.

We provide accurate **2D to 3D CAD conversion services and design solutions** for manufacturing and engineering industries.:

- Design and Development of new part / Assembly / Machine design
- 3D and drawing creation from existing pdf / or paper copy drawings / sketches
- Scale-up or scale-down of proven parts / machines.
- Re-engineering of existing parts / machines
- Design for Manufacturing and Assembly (DFMA)
- Drawings for each stage of manufacturing.
- Reverse Engineering- Checking of old parts/ drawings and preparation of detailed parts 3D, 2D and Bills of Material (BOM).
- Entry and updating CAD data / BOM / routing / etc. in customer's ERP system.
- Prepare for customised CAD library for parts / assemblies / products
- Design Analysis FEM, FEA, Mechanisms
- Creation of CAD / CAM reference drawings and parts libraries
- Process routing and CAM programming

Cost and Time Estimation Services for machines and parts:

Material weight, (Material cost from ERP)

Processes Routing

Process-time

cleaning and transfer time

Consumables (welding rod, gas, oil, etc)

Outsourced processes (like balancing),

Assembly and dismantling

Packaging: wrapping plastic/ paper and box,

Services cost

Extra costs like tests and certifications,

and other inputs as may be required.

We also provide 'Work Instructions' for special manufacturing processes and 'check lists for stage-wise inspection so as to increase speed, clarity and avoid any error/missing any cost.

We provide services on almost all leading CAD/CAM platforms like:

- SolidWorks,
- PTC Creo (Parametric and Direct modelling)
- PTC Creo (Parametric)
- AutoCAD-Inventor, AutoCAD, Fusion-360
- Solid Edge,
- TOPSOLID,

Our team comprises of highly qualified and experienced engineers and draftsmen from the following machine building industries:

- Steel Rolling Mills assemblies and parts
- Shot blasting machines and foundry machines
- Power press
- Conveyors and rollers
- Underground Mining Loaders and haulers, Drills and Dumpers
- Textile machineries, Power looms, Winders and Rewinders.
- Plastic extrusion lines and forming machines,
- Pressure vessels and Heat exchangers,
- Components and Parts of Chemical industry, Hydraulics, Windmills...

OUR TEAM

Head :	B. E. (Mech.)	35 Years of experience
Engineer-1	M. Tech. (CAD/ CAM)	6 years of experience in 3D CAD
Engineer-2	B. Tech. (Mech.)	1 year of experience
Engineer-3	DME	16 years of Experience
Engineer-4	ITI (D Man)	10 years of Experience.
Engineer-5	M.E (CAD/CAM)	To be recruited
Engineer-6	B.E. (Mech.)	To be recruited

Benefits of outsourcing 3D CAD Modelling and Drawing Services:

provide flexibility as companies receive a high level of service from 3D modellers who work full-time. It can provide companies with a cost-benefit that is 60% lesser than recruiting an in-house team. Apart from this, the other benefits of outsourcing 3D CAD modelling services are:

- **Proper utilization of resources**

Using external resources allows optimum use of internal resources. While quality control is important, resource management is also important.

- **Control of services**

The team and team leaders adhere to the guidelines and standards of the engagement. Being global, provide 24/7 customer service.

- **Reduction of Costs**

Time and cost are reduced or managed efficiently on high volume and low volume projects. Configured pricing.

- **Quality Work Maintaining Design Standards**

Qualified and skilled Design Engineer to deliver projects that meet the client's requirements.

- **Using of latest technologies**

Advanced technologies, tools, and file formats used in 3D/2D /CAM without investing in them.

Benefits of 3D Modelling for Engineering Services

1. Better Representation of Designs than 2D
2. More Effective Design for Manufacturability
3. Catch Errors Promptly
4. Effective visualization
5. Faster Time to Market