

Metal Power Analytical (I) Pvt Ltd Designing of Spectrometer with SOLIDWORKS Solutions



Founded in 1987, Metal Power provides a comprehensive range of products, applications and services to meet the analytical needs of metal industries. Their product portfolio spans the world's widest range of Laboratory Optical / Atomic Emission Spectrometers (OES / AES), Mobile Spectrometers, Hydrogen analyzers for molten Aluminum, Certified Reference Materials (CRM), Sample Preparation Machines for spectrometers as well as a wide range of accessories.



Challenges:

- ❖ Visualization of Complex Designs
- ❖ Analyzing fluid flow and temperature gradient
- ❖ Creating interactive instruction manuals
- ❖ Single point solution for complete R&D

Solutions:

- ❖ SOLIDWORKS Premium,
- ❖ SOLIDWORKS Simulation Professional
- ❖ SOLIDWORKS Flow Simulation
- ❖ SOLIDWORKS Composer
- ❖ SOLIDWORKS Inspection Standard

Benefits:

- ❖ SOLIDWORKS Interface is very User-Friendly and easy to understand.
- ❖ Simulation helps to check and analyze the Design before starting the Production.
- ❖ Composer helps to create Technical Documentation with detailed illustrations.

Results:

- ❖ Reduced 60% in Design Cycles by using SOLIDWORKS.
- ❖ Accelerated Time-to-Market by 40% by using Visualize.
- ❖ 20% Reduction in Development Costs.
- ❖ 40% Reduction in Prototyping Costs by using Simulation.
- ❖ 50% Reduction in Scrap/Rework Costs.
- ❖ Reduced 70% in number of Design Errors.
- ❖ 60% Benefit in Product Development Processes, such as Purchasing, Estimating, Marketing, or Documentation.
- ❖ More than 50 Projects completed within given deadline.



"SOLIDWORKS helped us with the visualization of complex designs and reduce errors in assemblies. Simulation allowed us to save on costly prototype. BEACON provided us with great support in implementing SOLIDWORKS in our organization."

- Mr. Siddhesh Keluskar, Asst Manager – Design, Metal Power Analytical(I) Pvt Ltd

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