Portfolio



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We Design, Develop, Market and Sell Innovative Products to the Indian Market. Our Motto is to take . the "Make in India" initiative to the next level by indigenously developing Useful and Innovative products in various industries, thereby providing jobs to local vendors.

Our aim is to focus more on producing greener products locally and exporting to different countries. We specialize in Product design and are capable of taking product design from concept to reality.

We list here all the notable and satisfied clients to whom we have rendered our services. They have come back to us time and again to get our expert advice/ service!

We have worked with many different kinds of businesses. See a select list below **Fitkids**

Pronto Networks

Kaynes Technologies

Magic Waters

Isometric Solutions

IVAPS

Legal Ease

Mysore Breweries (SAB Millers)



Services provided for our clients are :

- Design, Development and Production of Sports & Fitness Equipments.
- Enclosure Design and Development for Modem.
- Prototyping of Various Enclosures for military Applications, Heat Sinks, etc.
- Prototyping of Various parts for Water Purifier Brackets, PCBs
- Prototyping of Enclosure Racks for Fitment and Initial Testing.
- Patent Portfolio Management.
- Patent Analysis and Ideas Generation Using Systematic Innovation (TRIZ)





Services provided for our clients are :

- Technical Illustrations & Animations.
- Prior Art Search.
- Patent Analysis.
- Creating Patent Drawings.
- Technical Publication.
- Engineering Drawings for Machines and sub Parts.
- Factory Floor & Layout Planning.





MINCHU TEAM

We have engineers and diploma holders in our team who are experienced and capable of handling design , modeling and drafting activities.

Our team has carried out numerous projects for our clients in different activities as requested from the Customer.

In all our engagements, we focus on building trust and commitment which will establish the foundation of a long term partnership with our customers.







Project Sample: Bezel Design - Plastics

- Summary: To re-design the bezel based on customer's New Industrial Design sketches and old reference product 3d models.
- Input: Existing Product models, Industrial Design sketches
- **Scope**:
 - Converting Industrial Design Sketches into 3d models
 - Products should be designed for
- Solution: The existing design was modified to eliminate over-engineered components, without compromising the aesthetic and functionality delivering 45% reduction in enclosure cost.



Project Sample: Enclosure Design - Plastics

Summary: To design the hand held plastic enclosure that is ergonomic and easy to use. The emphasis was on ergonomics and aesthetics.

Input: Reference Product and Design Files

Scope:

- Enclosure Design
- Ergonomics
- Prototyping
- Tool Design Support
- Testing and approvals
- Solution: New Product Design earlier design was larger and bulky not suitable for hand held operation.



Project Sample: Enclosure Design

Summary: A robust rack mountable metal enclosure for an industrial PC was required to be developed. This being a flagship product from the customer, the focus were on both product performance and aesthetic design

Input:

- PCB Design
- Design Constraints

Scope:

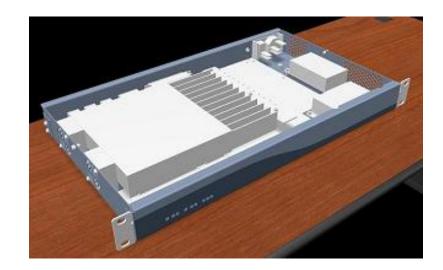
- Develop a metal enclosure for industrial PC
- Enclosure prototyping
- Bulk supply from India.
- Solution: A compact rack mountable enclosure was developed considering EMI / EMC, thermal flow, and further expansion possibilities.





Project Sample: Enclosure re-design to reduce production cost

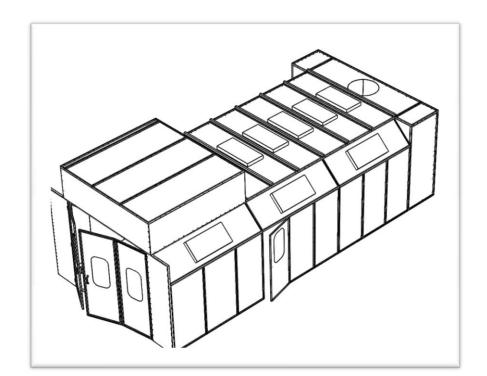
- Summary: To re-design the enclosure without affecting the brand identity, functionality and EMC parameters, resulting in substantial cost reduction.
- Input: Existing Product and Design Files
- **Scope**:
 - Teardown Analysis
 - Re-design
 - EMC testing and approvals
 - Prototyping
- Solution: The existing design was modified to eliminate over-engineered components, without compromising the aesthetic and functionality delivering 45% reduction in enclosure cost.





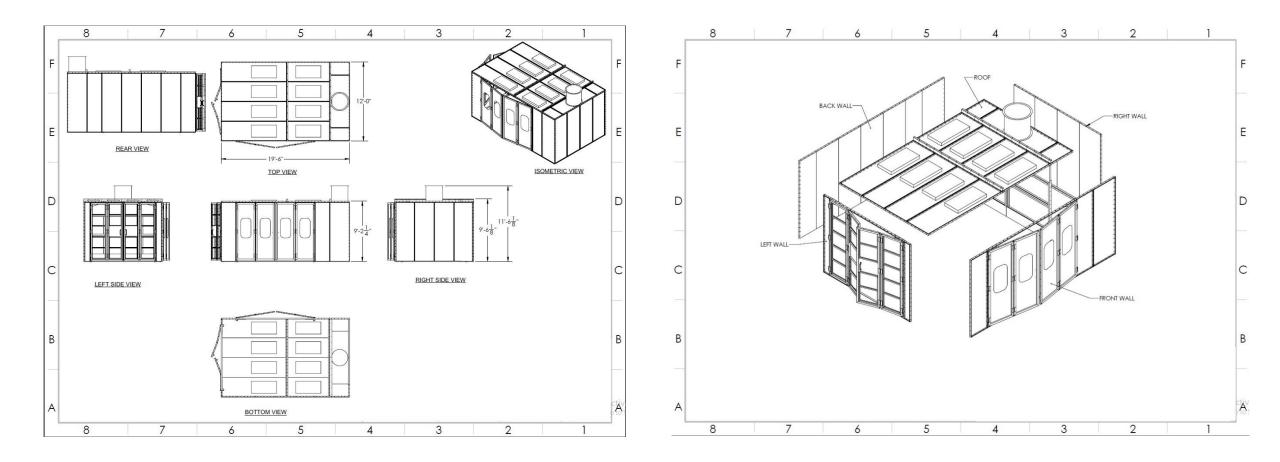
Project Sample: Spray Booths

- Summary: Spray Booths are enclosed structures that are used for the painting and finishing of manufactured items.
- Input: Existing Product and Design Files
- **Scope**:
 - Design & Modeling
 - Drafting
 - Installation manual





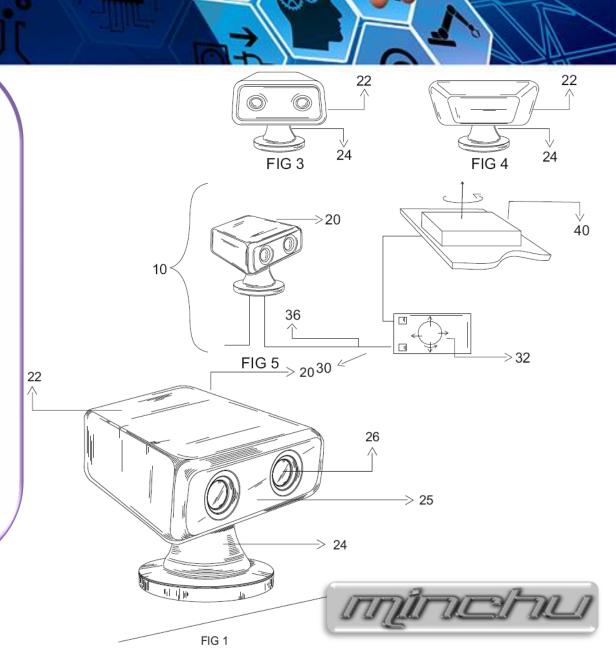
Project Sample: Engineering Drawing Services





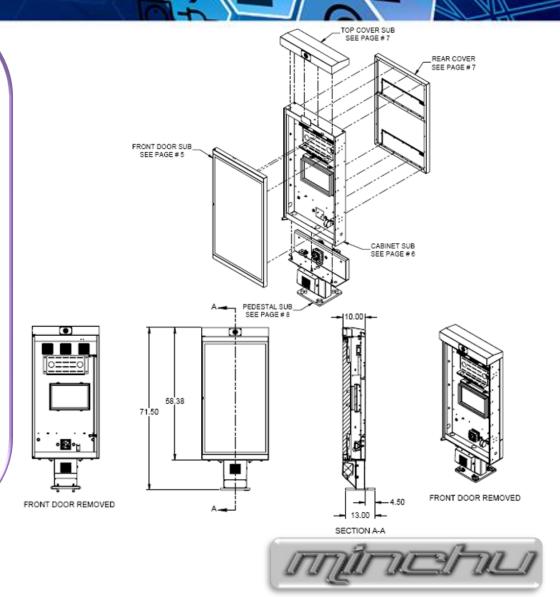
Project Sample: Patent Drafting Services

- Summary: Drafting of pictures required for Patents.
- Input: Hand sketches with brief write up of the patent.
- **Scope**:
 - Understand the Patent.
 - Convert hand drawn sketches to vector images.
- Solution: Hand drawn sketches were studied and artistic sketches – 3 dimensional or orthogonal are created based on Client requirement. Upon client's approval all the designators are added based on input and vector images are delivered.

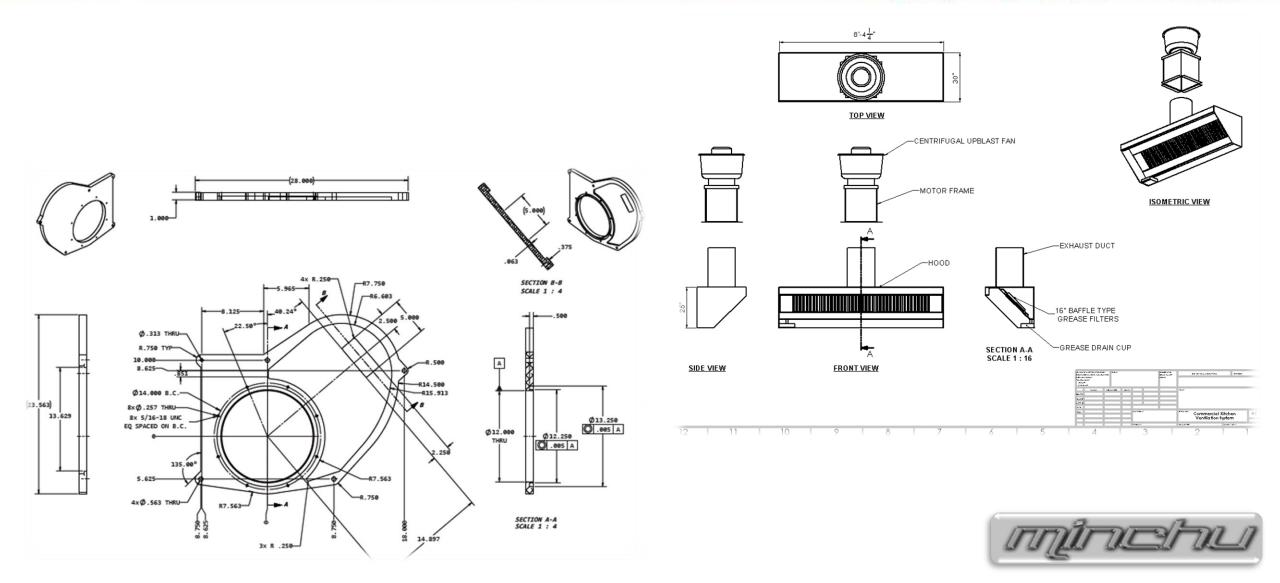


Project Sample: Engineering Drawing Services

- Summary: To create clutter free, engineering drawings that adheres to Standards such as ASME, etc. per customer request.
- Input: 3d Assemblies, sub-Assemblies and parts, Company templates.
- **Scope**:
 - Create Exploded views
 - Manufacturable engineering Drawings of parts.
 - Quality Assurance and Checking.
 - Create Inspection drawings.
- Solution: Create drawings per customer standards or reference drawings given by them. Aim is to provide maximum information in least possible views/sheets and keeping it clutter free.



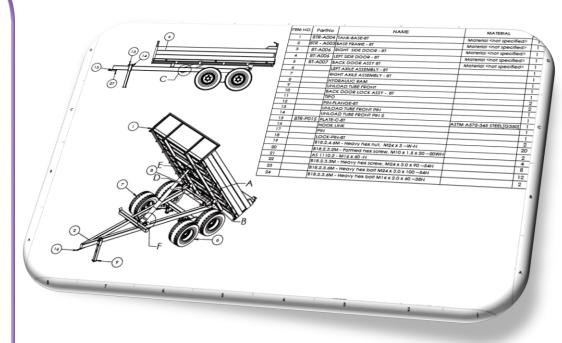
Project Sample: Engineering Drawing Services



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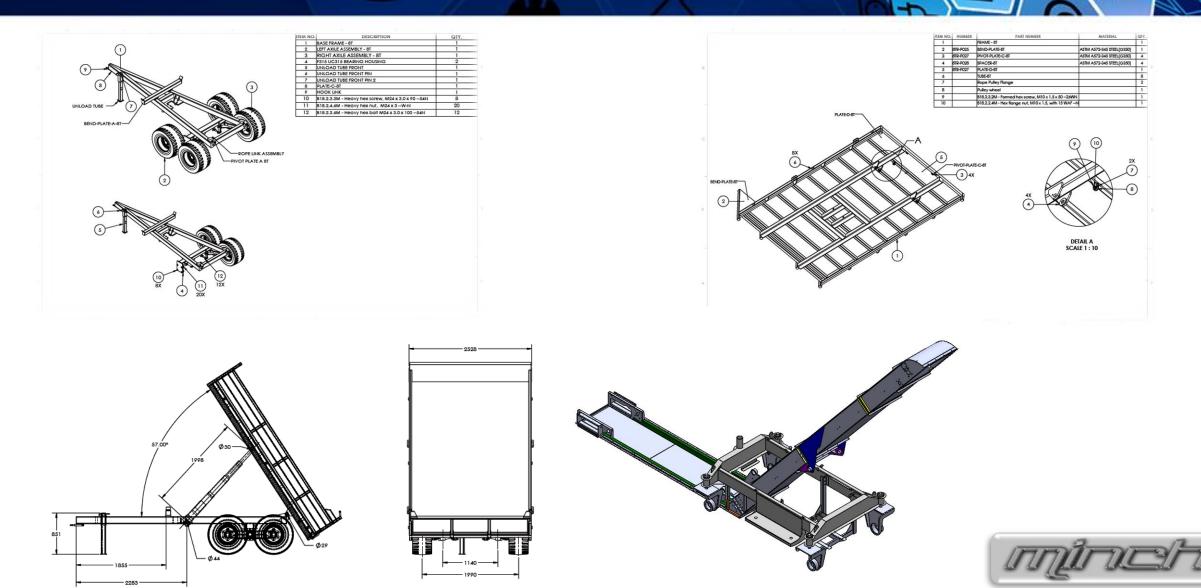
Project Sample: Agricultural machinery Engineering Design & Drawing Services

- Summary: To create clutter free, engineering drawings that adheres to Standards such as ASME, etc. per customer request.
- Input: Specifications , Drawings, Company templates.
- **Scope**:
 - Create 3d Assemblies, sub-Assemblies & parts,
 - Manufacturable engineering Drawings of parts.
 - Quality Assurance and Checking.
 - Create Inspection drawings.
- Solution: Create drawings per customer standards or reference drawings given by them. Aim is to provide maximum information in least possible views/sheets and keeping it clutter free.

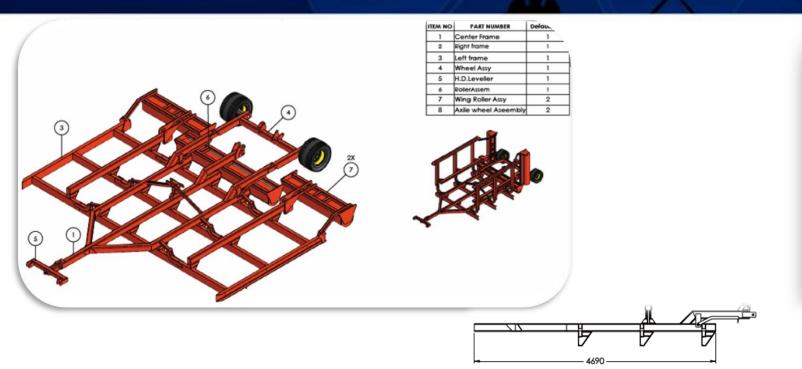


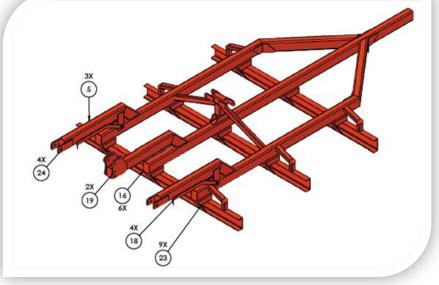


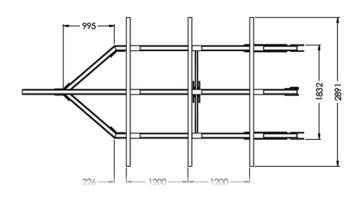
Project Sample: Agricultural machinery Engineering Design & Drawing Services



Project Sample: Agricultural machinery Engineering Design & Drawing Services



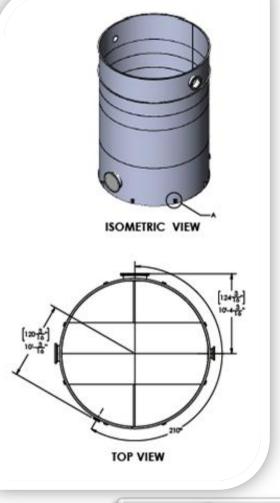






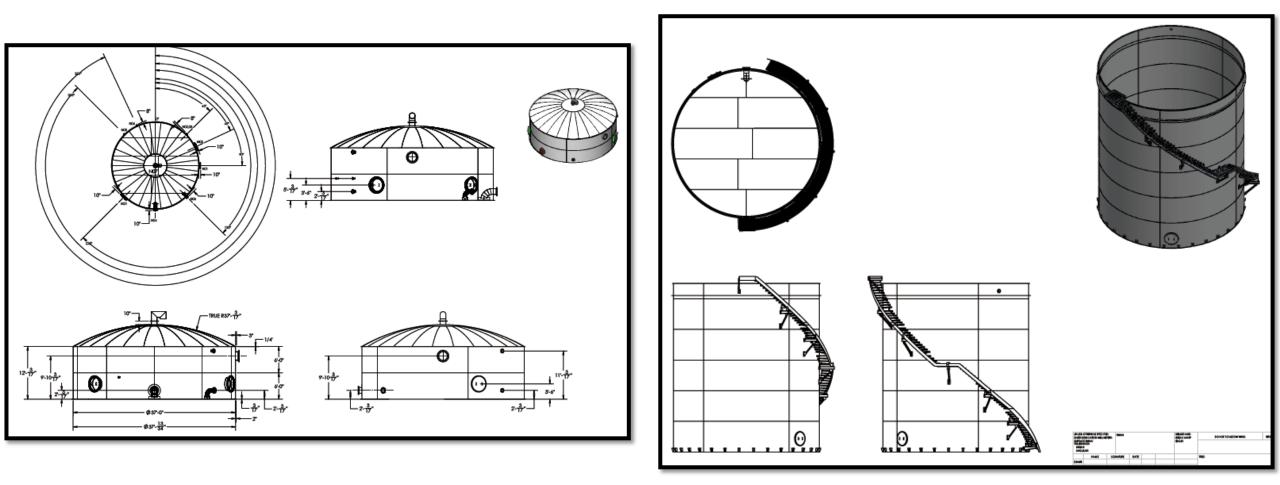
Project Sample: Tanks Modeling & Drawing Services

- Summary: To create clutter free, engineering drawings that adheres to Standards such as ASME, etc. per customer request.
- Input: Specifications , Drawings, Company templates.
- **Scope**:
 - Create 3d Assemblies, sub-Assemblies & parts,
 - Manufacturable engineering Drawings of parts.
 - Quality Assurance and Checking.
 - Create Inspection drawings.
- Solution: Create drawings per customer standards or reference drawings given by them. Aim is to provide maximum information in least possible views/sheets and keeping it clutter free.





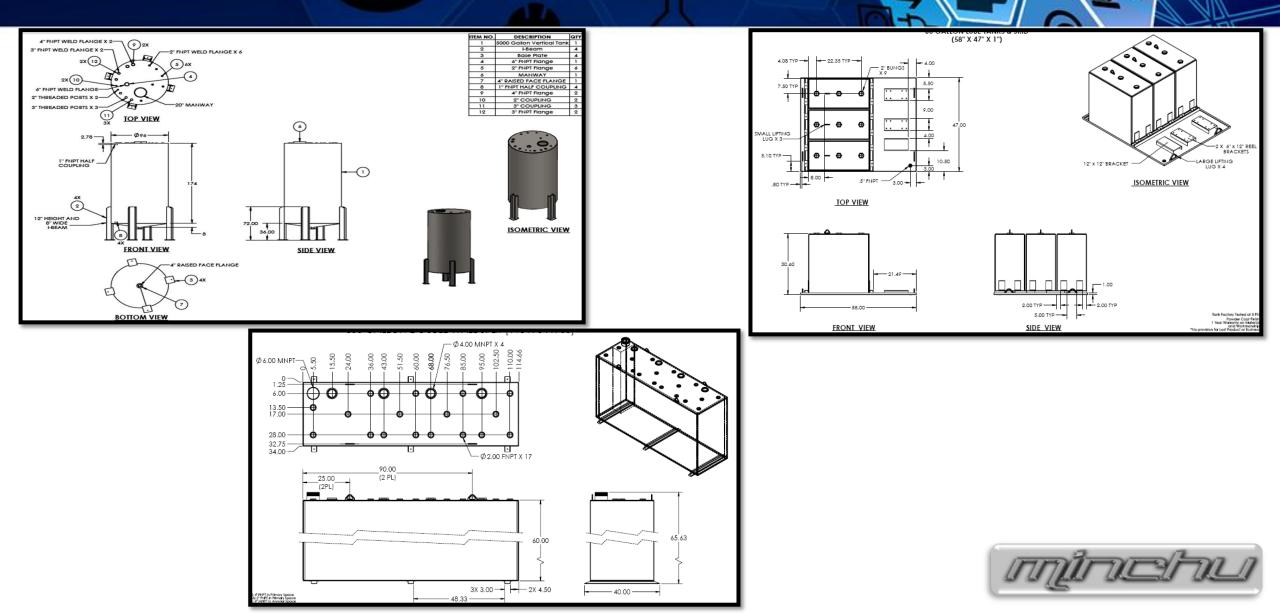
Project Sample: Tanks Modeling & Drawing Services





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Project Sample: Tanks Modeling & Drawing Services

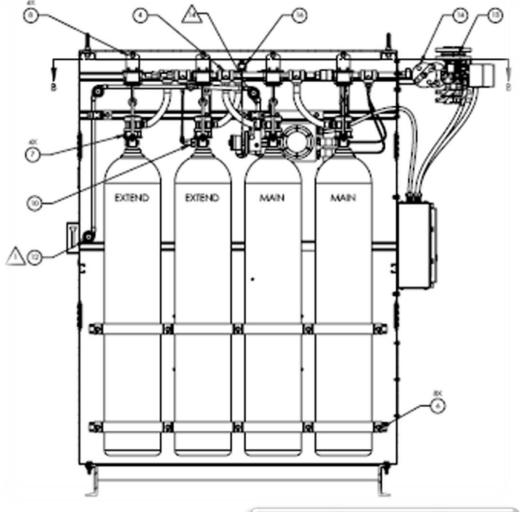


Project Sample: Assembly Instructions -Electrical Cable & Pneumatic Tubes Routing

- Summary: To Design and draft Electrical cable routing and Pneumatic harness or tube routing.
- Input: P& ID or electrical circuit diagrams, 3d Assemblies, sub-Assemblies and parts.

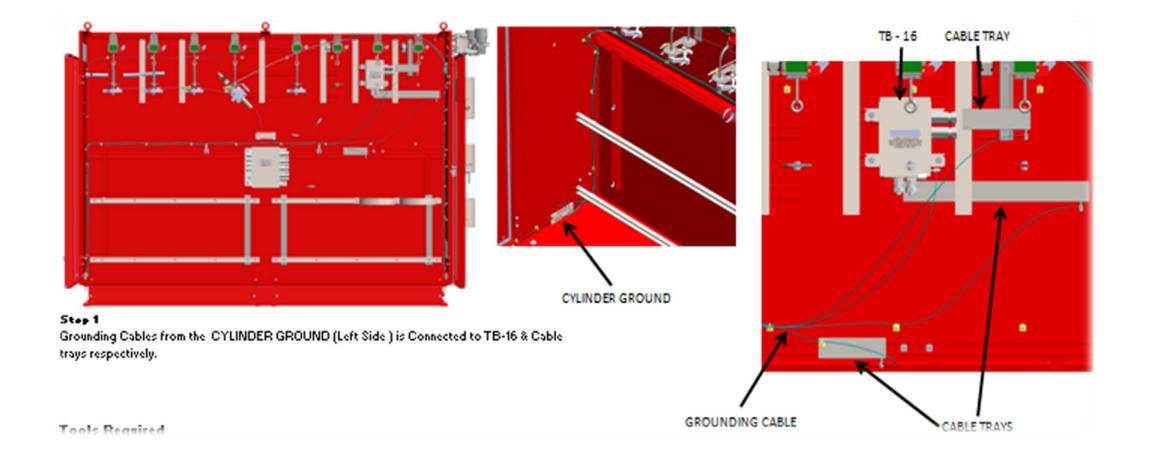
Scope:

- Create Electrical Cable Libraries, harnesses and cables.
- Create Pneumatic tubes routing based on P& IDs.
- Create drawings for it.
- Creates Step by Step assembly instructions for physical routing of cables and tubes.
- Solution: Based on the input the library for all sizes of wires, harnesses and cables are created. Then end connectors, lugs, etc. are modelled and stored in library. Similarly, library for pneumatic components and tubes are created and then routed on the 3d model.





Project Sample: Assembly Instructions -Electrical Cable & Pneumatic Tubes Routing





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