



Company Profile

About Us:

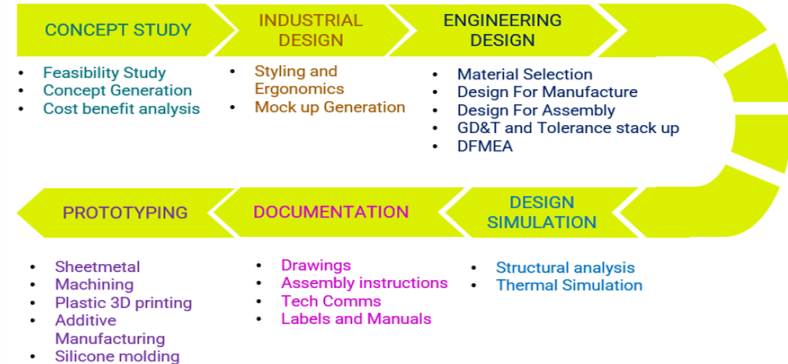
Samtechknow Innovations Pvt Ltd has been established in **April 2025 at Electronic City, Bengaluru**, provides timely, cost-effective, and **end-to-end mechanical engineering solutions** in the areas of new product design and development.

At **Samtechknow Innovations Pvt Ltd**, we combine deep domain expertise with cutting-edge tools to deliver high-quality, end-to-end mechanical product design and engineering solutions.

Our team specializes in transforming innovative ideas into market-ready products through design, prototyping, and value engineering.

We are your trusted partner for:

- Faster product development cycles
- Domain-specific engineering talent
- CAD and Prototype support
- Precision-driven design and reverse engineering
- Flexible engagement and contract staffing models



Vision, Mission and Core Values

Vision

Our **Vision** is to be the superior quality solutions provider for innovative product development, serving across various industries globally.

Mission

Our **Mission** to provide high quality and faster product design engineering solutions to customers through team of expertise in Product Design.

Core Values

Integrity in Every Interaction: Trust is paramount. We are transparent, reliable, and unwavering in our commitment to ethical excellence—for our clients, our team and our suppliers.

Precision and Excellence: Every detail counts. We uphold the highest standards in design, engineering, and manufacturing, ensuring that every service and product is crafted with accuracy, quality, and pride.

Agile by Nature: Markets fluctuate. Needs evolve. We are built for adaptability—whether refining a prototype or addressing urgent hiring demands.

Collaboration at Our Core: The best results emerge through teamwork. We value responsiveness, open exchange of ideas, and shared success across disciplines.

Contact us

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Bengaluru, Karnataka - 560100

GSTIN:

29ABPCS8016B1Z5

CIN:

U26104KA2025PTC200743

Our Offerings:

Design Consulting & CAD Services

Our team has over 2 Decades of Domain expertise in Industries in

- ✦ Electro Mechanical Products: Solar Inverters, EV Chargers, Battery Storage Systems.
- ✦ Sheet Metal Industries: Custom enclosures, Data centre Server Racks and Electrical Panels
- ✦ Jigs and Fixtures / SPM: For Testing, Assembly, and Production Automation
- ✦ Medical and Semiconductor WFE products



Prototyping and Manufacturing

To provide end-to-end solutions for product development, we offer our clients prototype building and low-volume production support. Our key services include:

- ✦ Sheet Metal Fabrication.
- ✦ Machining.
- ✦ Plastic 3D Printing.
- ✦ Metal Additive Manufacturing.

Our Offerings:

Fixture Design Pneumatic System Design

Body in White Fixture design services:

- ✦ Spot and MIG Fixture Design.
- ✦ Manufacturing Drawings, Pneumatic Drawings, Cycle Time Chart, Poka Yoke sheet.

Pneumatic System Design and Manufacturing:

- ✦ Pneumatic Control Panel Design and Optimization.
- ✦ Efficient Pneumatic System Architecture and Integration

Resource Staffing Services

We hire and train engineers with domain-specific skills, ensuring they onboard quickly and efficiently to meet client requirements. Our staffing solutions include both onsite-offshore collaboration models for contract staffing:

Contract-to-Hire (Temp-to-Permanent): This approach allows employers to assess an employee's suitability before making a long-term commitment.

Temporary Contract Staffing: Ideal for organizations seeking short-term resources or specialist skills.

Design Capability

CAD Tools:

- Creo Parametric 11.0
- AutoCAD

We are capable of collaborating in any major CAD packages.

Resources:

Our team has over 2 Decades of Domain expertise in Industries like:

- Electro Mechanical Products – Battery / Inverter / EV Chargers.
- Sheet Metal Industries – Server Racks / ESD tables / Electrical enclosures.
- Jigs and Fixtures / SPM.
- Medical and Semiconductor WFE products.
- Pneumatic System Design and Manufacturing.
- Plastic and Die cast product
- Machined racks for Defense application

Manufacturing Capability

Our manufacturing operations are supported by strategic partnerships with external vendors, enabling us to scale efficiently and meet diverse project requirements

- **CNC Laser Cutting Machine**
- **CNC Bending Machine**
- **VMC Machine with below Capability:**
 - Accuracy of the machines: 5 Micros
 - Bed Size : 800 X 510 X 510 mm
- **Wire Cut Machine with below Capability**
 - Accuracy Of the Machine: 5 Microns
 - Travelling : 350 X 450 X 500
- **DRO Milling Machine**
- **Tig welding**
- **MIG welding**
- **Fly press and Riveting Machine**
- **Powder Coating**

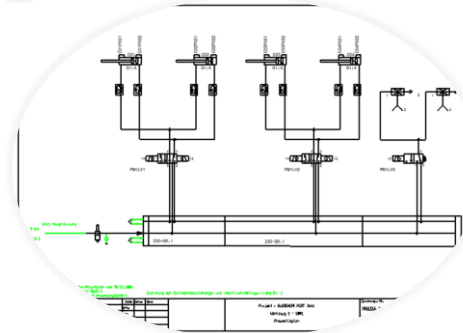
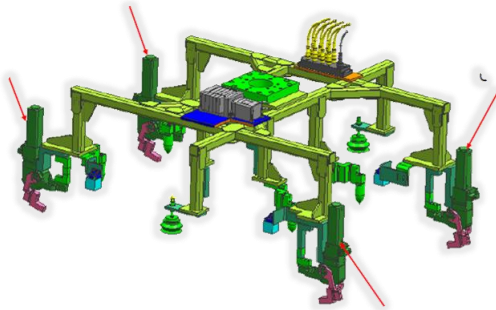
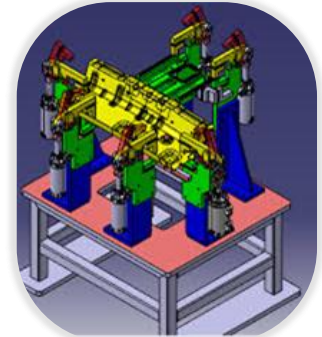
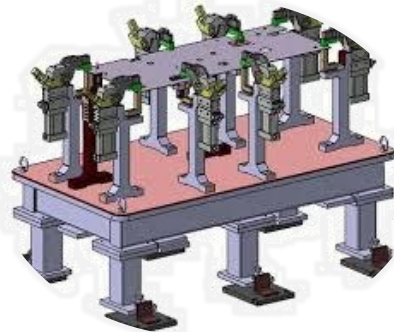
Factory Floor Area: 14,000 Sq ft



For any other requirements that exceed our in-house capacity, we take full ownership of the process and ensure timely and quality delivery by leveraging our well-established vendor network

Fixtures Design

- BIW spot welding and MIG welding fixture design.
- Material Handling Gripper, Combo Gripper design.
- Stud, Drawn arc weld nut fixture design.
- Pneumatic drawing, cycle time chart, poke yoke sheet.



*Pictures are taken from website only for reference

Aluminum Extrusion Structure Design and Manufacturing

- Test / Inspection tables design and manufacturing support.
- Enclosure design and manufacturing.



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STANDARD PRODUCTS

LED Display Cabinets In-house Products

1. Outdoor Display Cabinets with Standard Sizes:

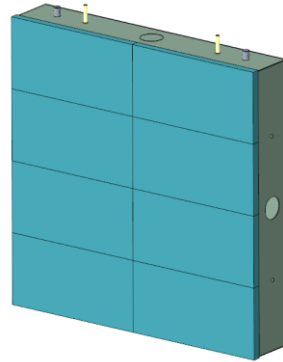
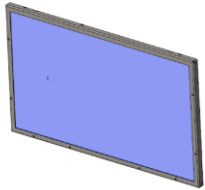
640mm X 640mm

960mm X 960mm

2. Wall mount display enclosure

3. Table top display enclosures

We will Support Custom Designs as well.



SERVER RACKS AND ENCLSOURCES

Server Racks:

- Modular construction, completely knockdown (CKD) ready to assemble kits supports reduced logistic and storage cost
- Extruded Aluminum profiles for higher load bearing capacity there-by effectively reducing dead weight on the false floor
- Hexagonal perforation with >70% of cell opening ratio for enhanced air flow
- Fully recessible 19" angle from front and rear to accommodate various depth equipment
- Confirms to DIN 41494 for World wide equipment compatibility
- Load carrying capacity of 750 kg / 1000 kg

Available Sizes:

Height: 24U, 36U, 42U AND 45U

Width: 600mm / 800mm

Depth: 1000mm / 1200mm



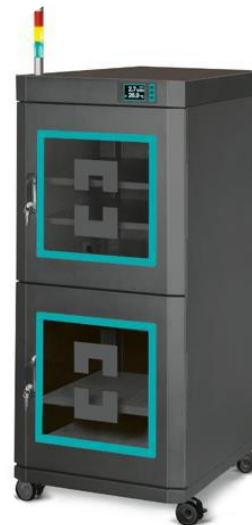
RACKS AND ENCLSOURCES

Readily available Accessories

- 1U MS BLANK PANEL
- 1U CABLE MANAGER
- 2U CANTILEVER SHELF 400mm DEEP
- 2U MS BLANK PANEL
- 2U CABLE MANAGER
- 42U VERTICAL CHANNEL
- CANTILEVER SHELF 250mm DEEP
- HEAVY DUTY SHELF
- KEYBOARD TRAY



VERTICAL CABLE
ORGANISER



ESD DRY CABINET



LIQUID IMMERSION RACK



CUSTOM 19" SERVER RACKS

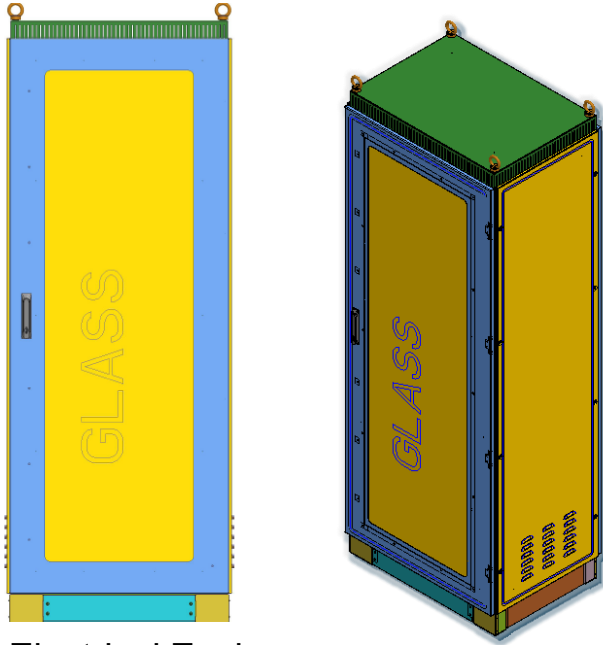
ESD LAB BENCHES



- With Special **ESD Laminates**.
- Table confirms to ESD Safe features as per International Specifications meeting the requirements of ANSI/ESD S20.20 and IEC/EN 61340 standards.
- Available in multiple colors.

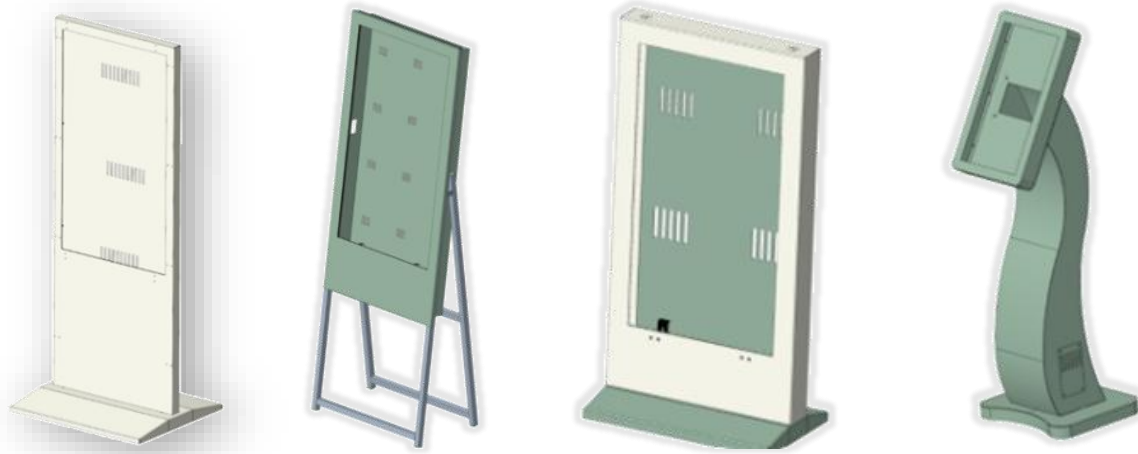
Gallery

Design Support-Sheetmetal



Electrical Enclosures

- Sheetmetal Bending
- Sheetmetal Welding
- Powder Coating



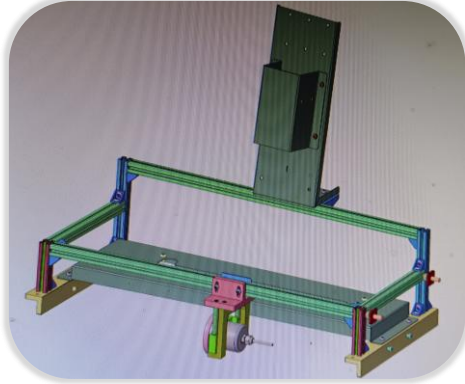
Display standees

Design and manufacturing of Display standees for LED TV and Tabs. Which includes following processes.

- Sheetmetal Bending
- Stand tubes
- Sheetmetal Welding
- Powder Coating

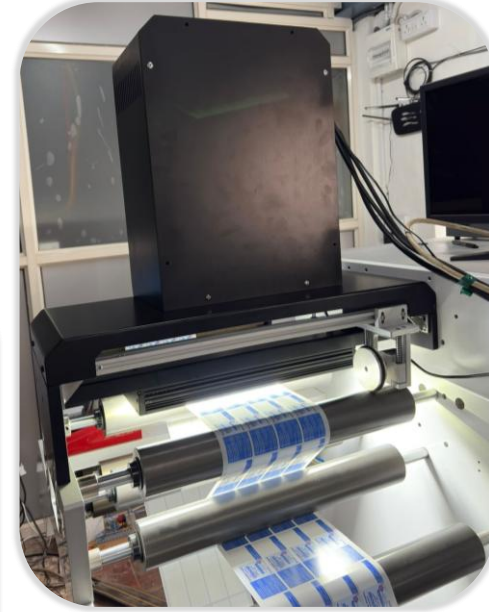
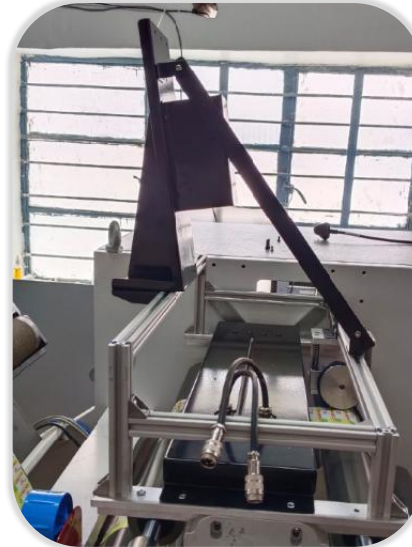
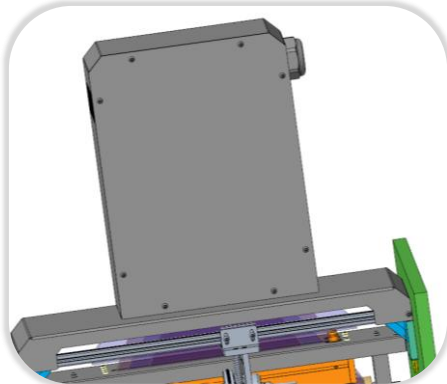
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SPM Design and Prototype Support



SPM design and manufacturing proto project for printing industry.. Designed mechanisms with standard parts and structure.

- Sheetmetal Powder Coated
- Aluminum Machined parts
- Aluminum Extrusion profile
- SS shaft
- Springs



Gallery

Design and manufacturing of Display Sheetmetal Cabinet Structure for LED display fixation.

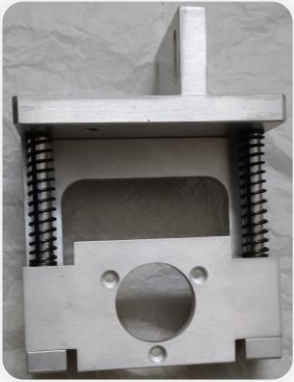
Processes included:

- Sheetmetal Bending
- Sheetmetal Welding
- Powder Coating
- Standard parts



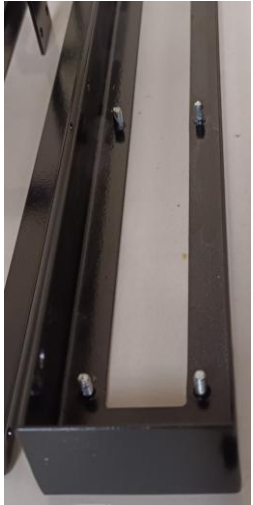
Gallery

R&D Design and Prototype support - Machined Parts

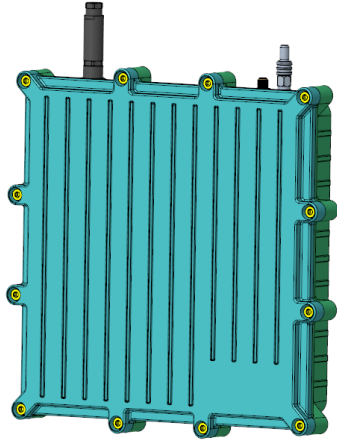


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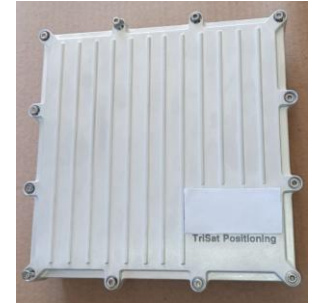
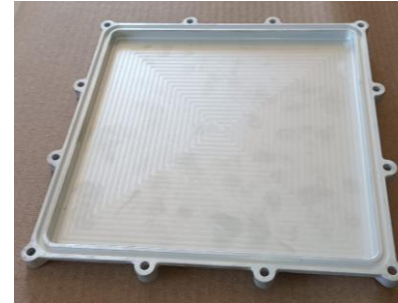
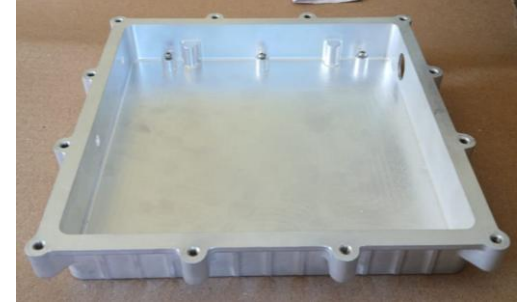
R&D Prototype support:
Sheetmetal, PC and Acrylic Rod, Aluminum machined parts



Design and Prototype Support

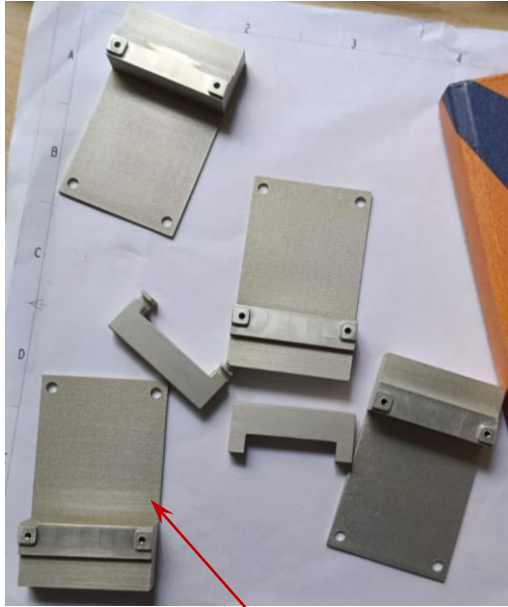


- Die Cast Product Design
- Designed for IP 67 compliance.
- Design and Prototype Support.



Gallery

R&D Prototype Manufacturing Support



0.9 mm thick, Aluminium wire cut



Copper Busbar



5 mm CRS Bending



Gallery

R&D Prototype Manufacturing Support



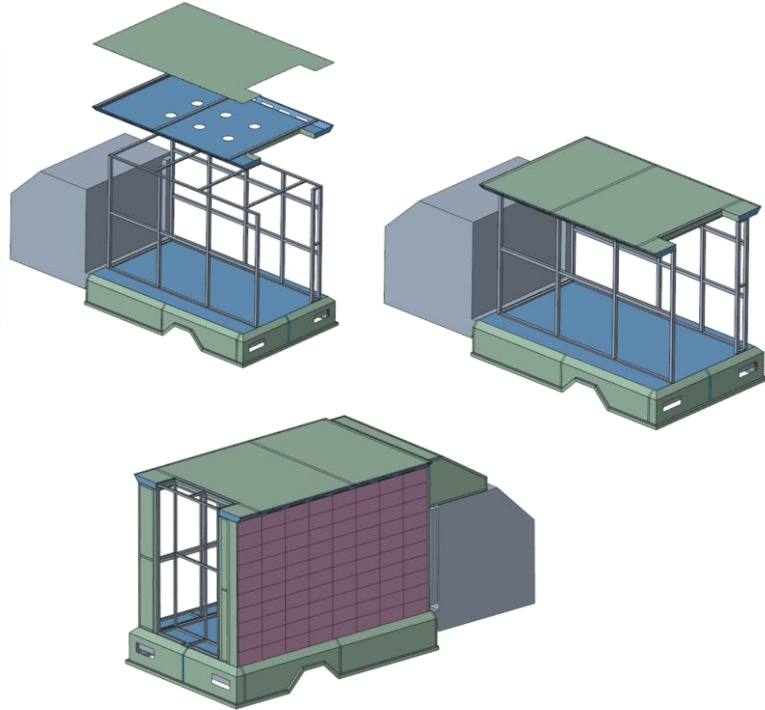
Aluminium Machined rack



ESD Panels

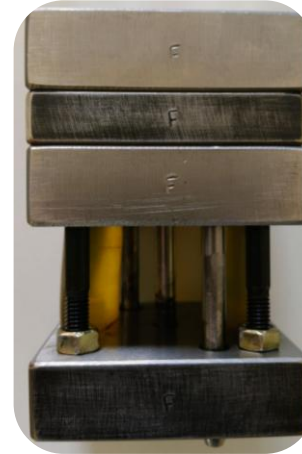
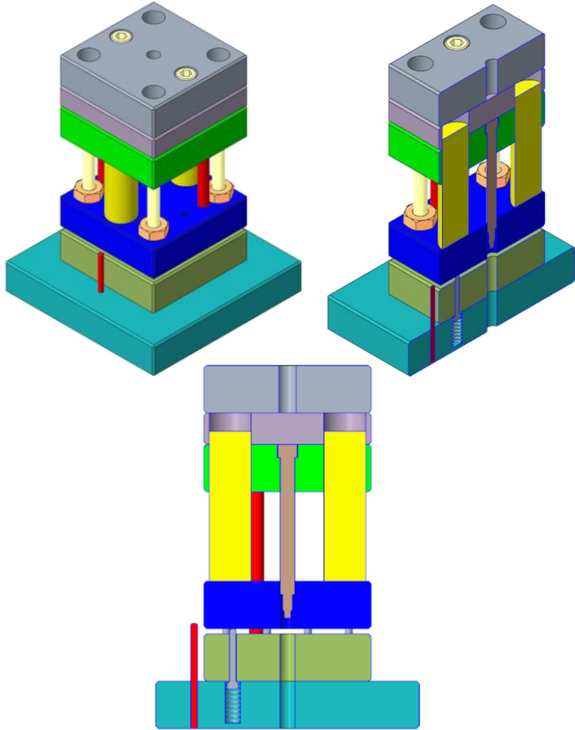
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Advertising Display LED Van design and structure



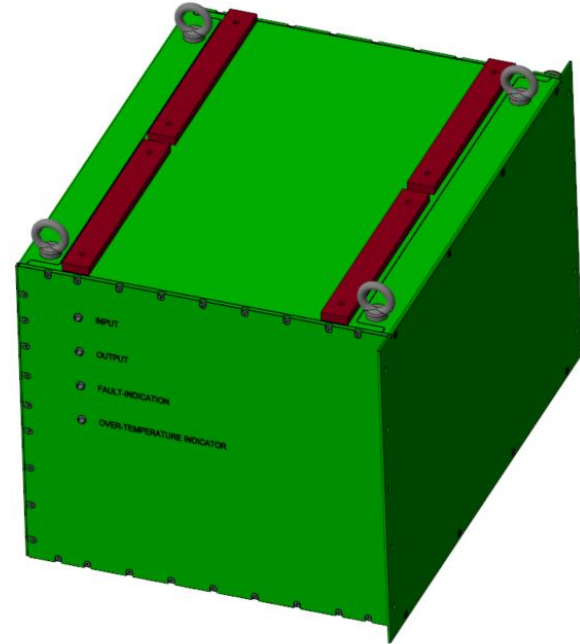
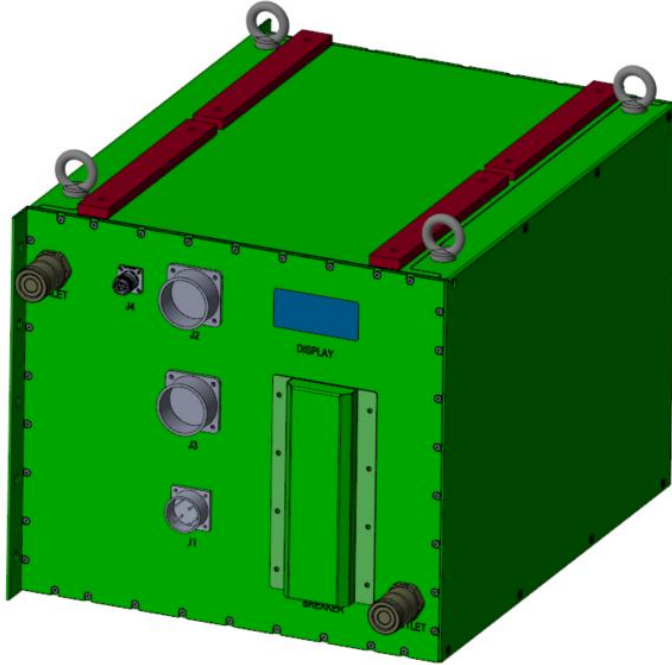
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Emboss tool design and manufacturing



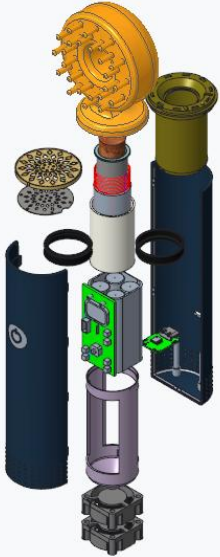
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Design and Manufacturing Support (Aluminum machined and sheetmetal enclosure)



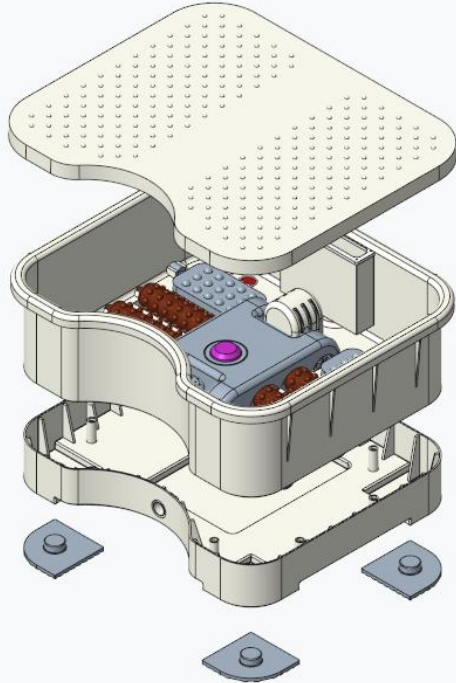
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New Product Innovation support



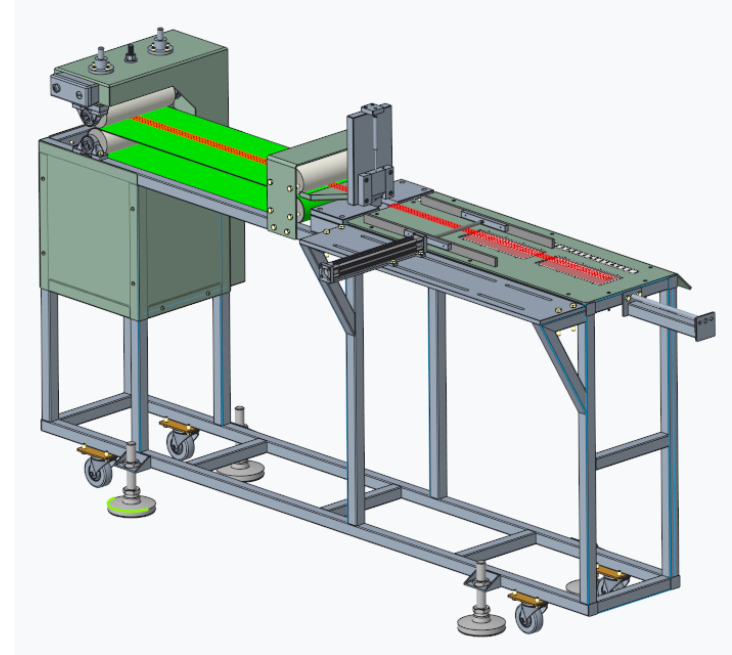
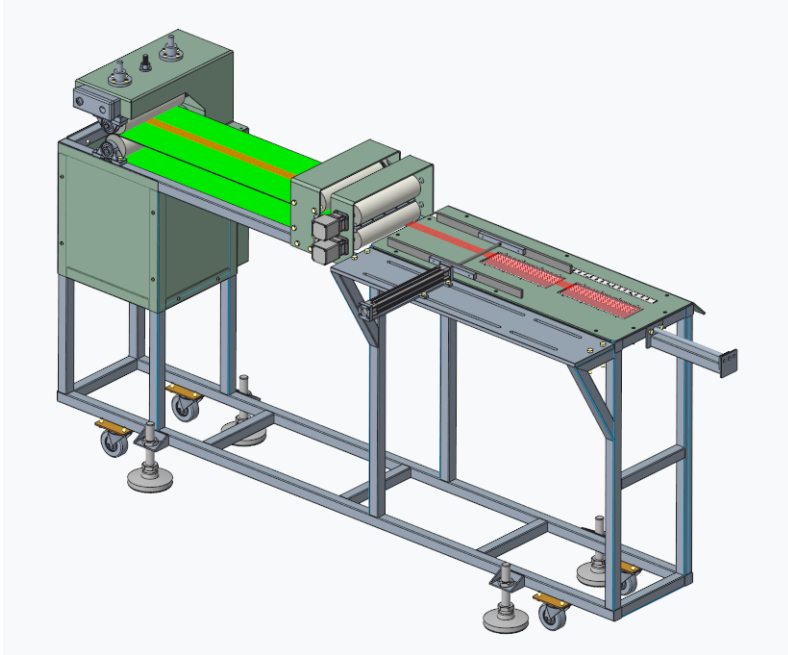
Gallery

New Product Innovation support



Gallery

SPM-Wire cutting Machine Design



Past Work experience

New Product Development Projects



- Grid Tie Solar inverter
- Manufacturing transfer project from China to India
- 88.8 x 40.3 x 18.5 cm
- Weight: 50 lbs to 60 lbs
- -25 to 65 deg C
- 5 years warranty for parts
- Rebranded and Improved DFMA
- Design Includes
 - Sheet metal
 - Aluminum Extrusion
 - Labels & Packaging
 - Schneider guidelines
- Testing Support
 - Vibration fixture design
 - IP test
 - MEOST test support



- Schneider
- Product-Grid Tie Solar Inverter, 3-5kW
- Die Cast Design Experience
- Ingress protection: IP 65
- Dimension: 420 x 480 x 160



- Conext Battery Monitor,
- NPD
- Mechanical Design support from India
- Complete ownership from concept to Prototype
- Plastic injection molded enclosure
- Wall, Panel and DIN rail mounting



- Solar Inverter 40kW
- Prototyping
- Completely Owned concept to Proto
- Design developed to improve installation and Field service
- Compact design: Integrated Inverter and Wiring BOX design

*Picture from website

Past Work experience

Electro Mechanical Assembly Package and Enclosure Design Projects

- Projects Worked Between-2004 to 2006; Custom engineered product; Hands on work experience



INVERTERS FOR RAILWAYS



UNIVERSAL-FREQUENCY-
CONVERTERS-UFC



(REF IMAGE)

- Industrial UPS, 60kVA ,
- IP-42
- Sheet metal enclosure,
- Approx; 800 x1800x 600
- New assembly design, including new Parts and assemblies Packaging
- Design and inhouse manufacturing support of Transformers and Inductors
- Forced cooling
- Year-2004

Thank You