



Company Profile

About Us:

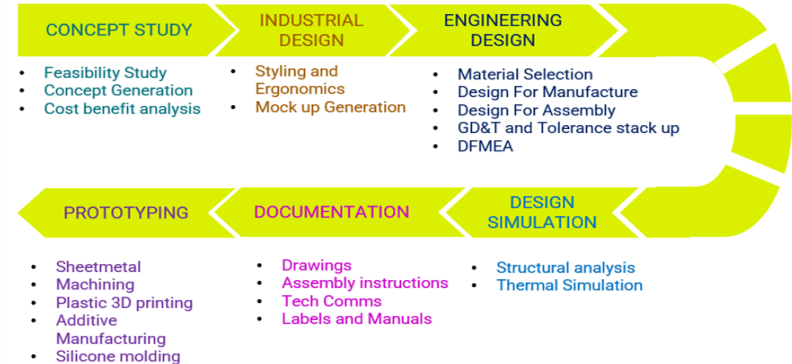
Samtechknow Innovations Pvt Ltd has been established in **April 2025 at Electronic City, Bengaluru**, provides timely, cost-effective, and **end-to-end mechanical engineering solutions** in the areas of new product design and development.

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

Samtechknow Innovations Private Limited

Phone:

+91 63613 54476

+91 94491 00839

Email:

info@samtechknow.com

Website:

<https://samtechknow.com/>

Address:

Samtechknow Innovations Private Limited
Vikas Plaza, No. 160/2A, 2nd Floor,
Hebbagodi, Electronic City post,
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**

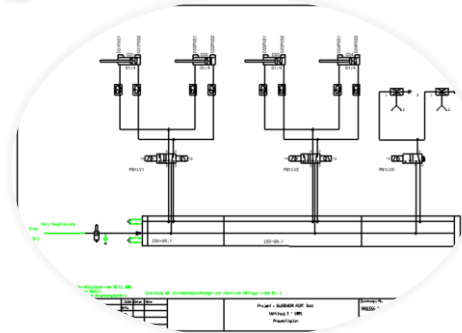
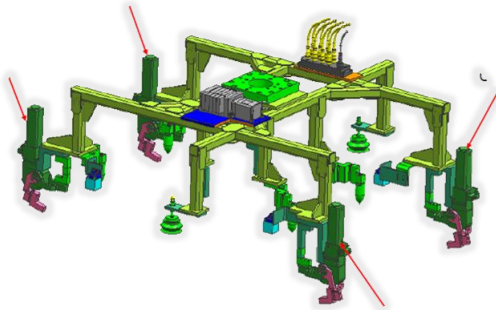
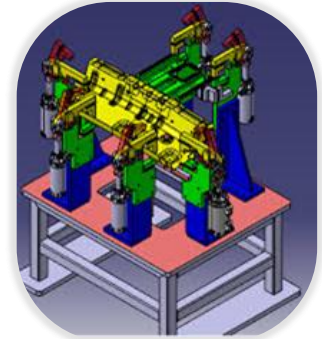
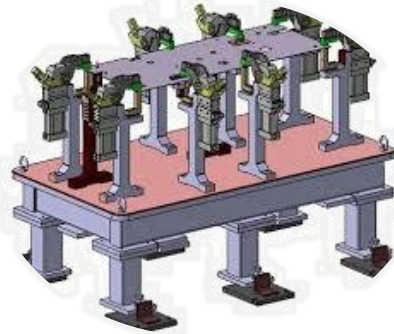
Factory Floor Area: 14,000 Sq. ft



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.



*Pictures are taken from website only for reference

STANDARD PRODUCTS

LED Display Cabinets In-house Products

1. Outdoor Display Cabinets with Standard Sizes:

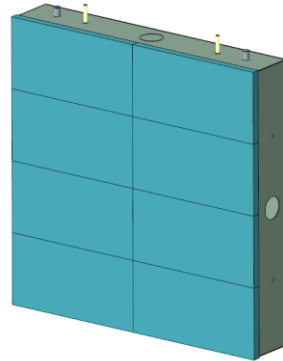
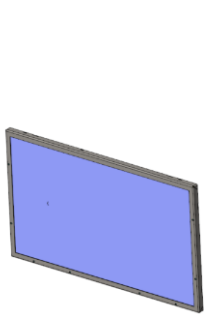
640mm X 640mm

960mm X 960mm

2. Wall mount display enclosure

3. Table top display enclosures

We will Support Custom Designs as well.



SERVER RACKS AND ENCLOSURES

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



VERTICAL CABLE
ORGANISER



CUSTOM 19"
SERVER RACKS

ESD LAB BENCHES



ESD WORK BENCH



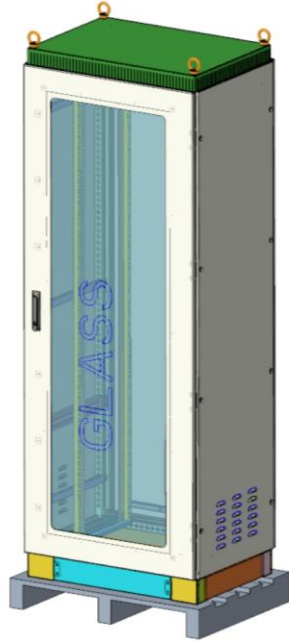
ESD PANEL



ESD TROLLEY TABLE

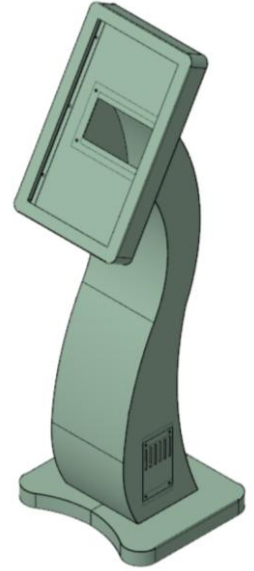
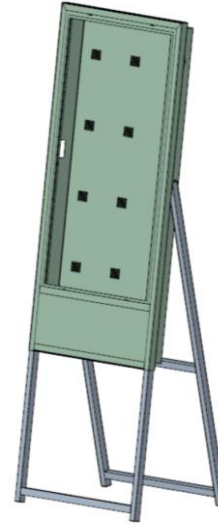
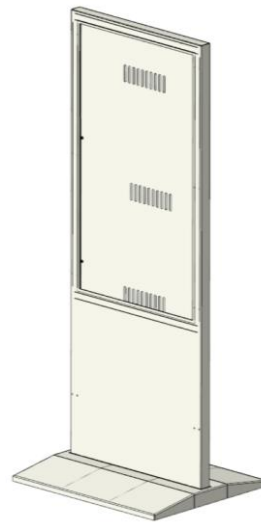
Gallery

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.

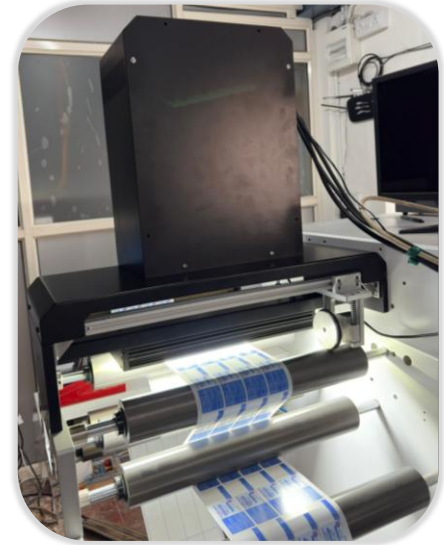
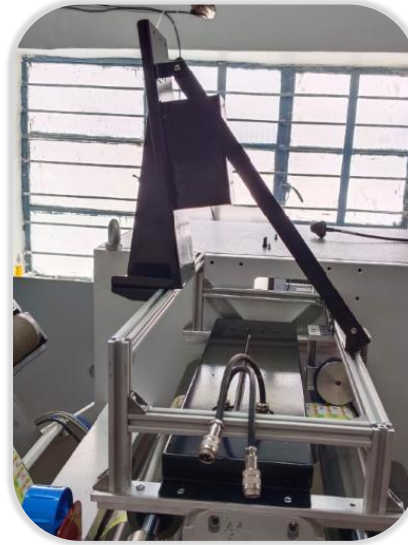
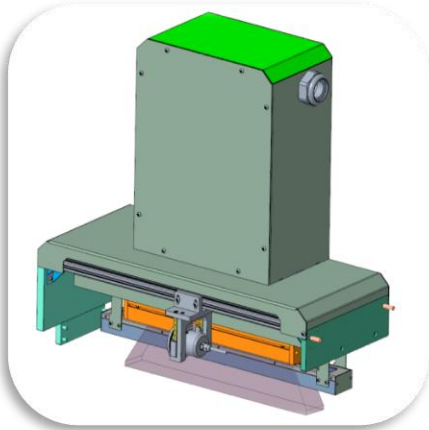
- Sheetmetal Bending
- Stand tubes
- Sheetmetal Welding
- Powder Coating

Gallery

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.

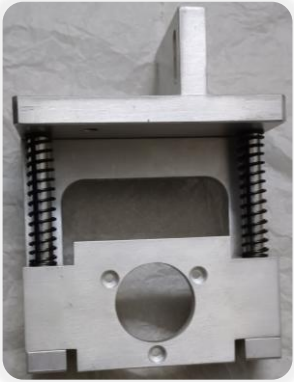
Processes included:

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



Gallery

R&D Design and Prototype support - Machined Parts



Gallery

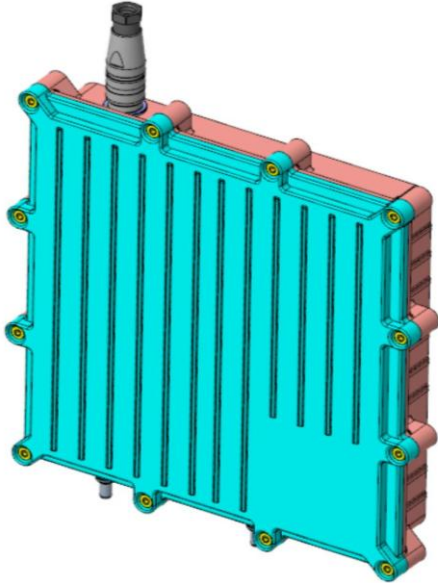
R&D Prototype support:
Sheetmetal, PC and Acrylic Rod, Aluminum machined parts



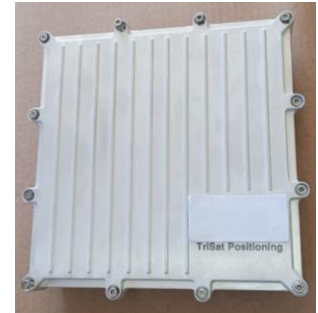
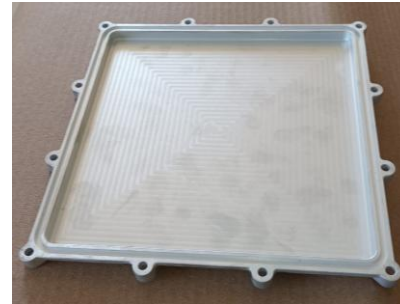
Polycarbonate
with Diffusion

Gallery

Design and Prototype Support

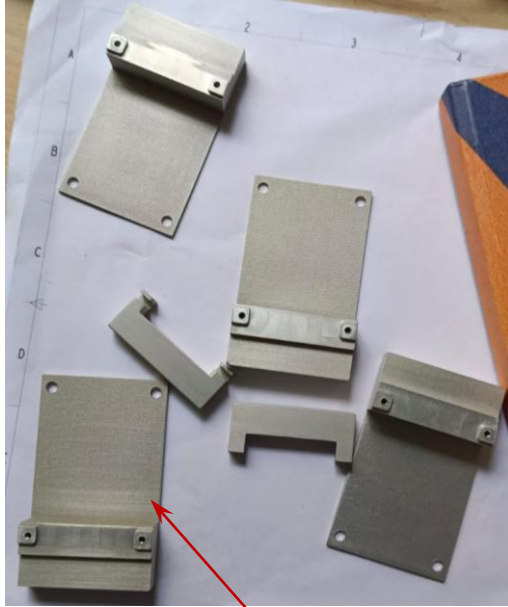


- Die Cast Product Design
- Designed for IP 67 compliance.
- Design and Prototype Support.



Gallery

R&D Prototype Manufacturing Support



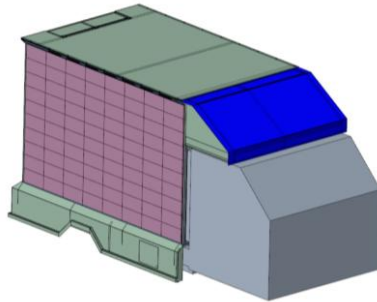
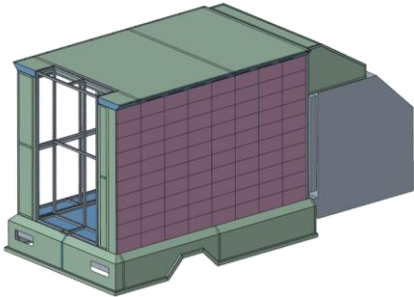
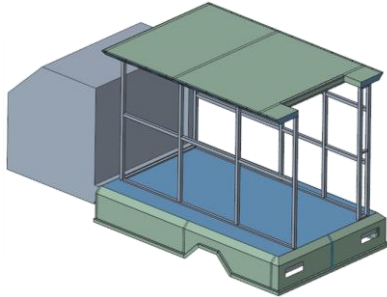
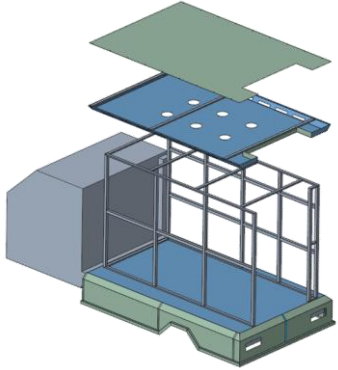
0.9 mm thick, Aluminium wire cut



Aluminium machining and anodising

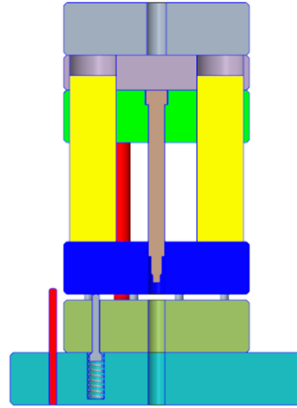
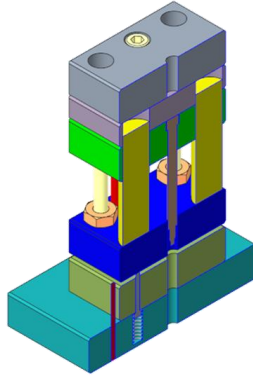
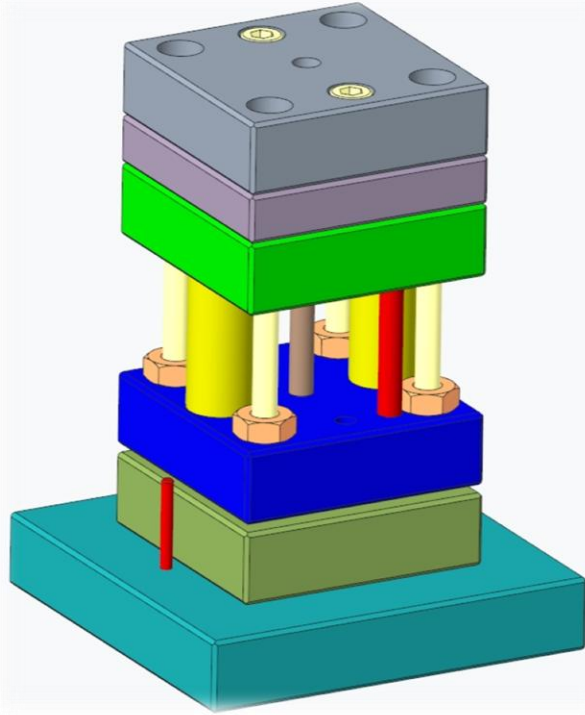
Gallery

Advertising Display LED Van design and structure- Custom Requirement support



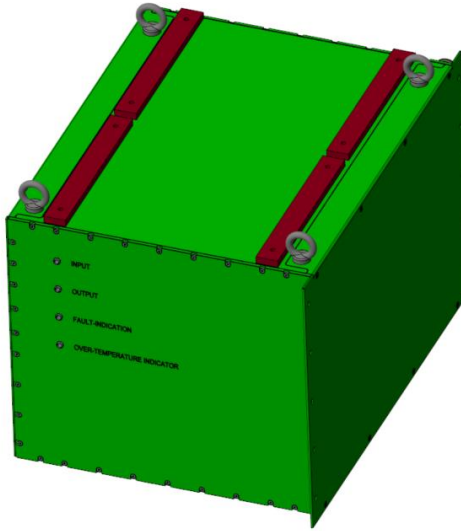
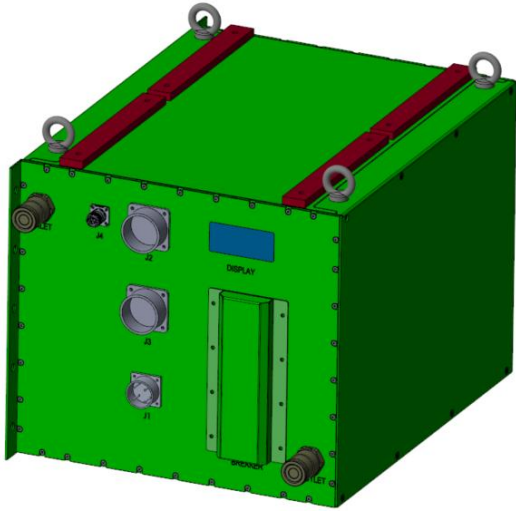
Gallery

Emboss tool design and manufacturing



Gallery

Design and Manufacturing Support (Aluminum machined and Sheetmetal enclosure)
For Defense application



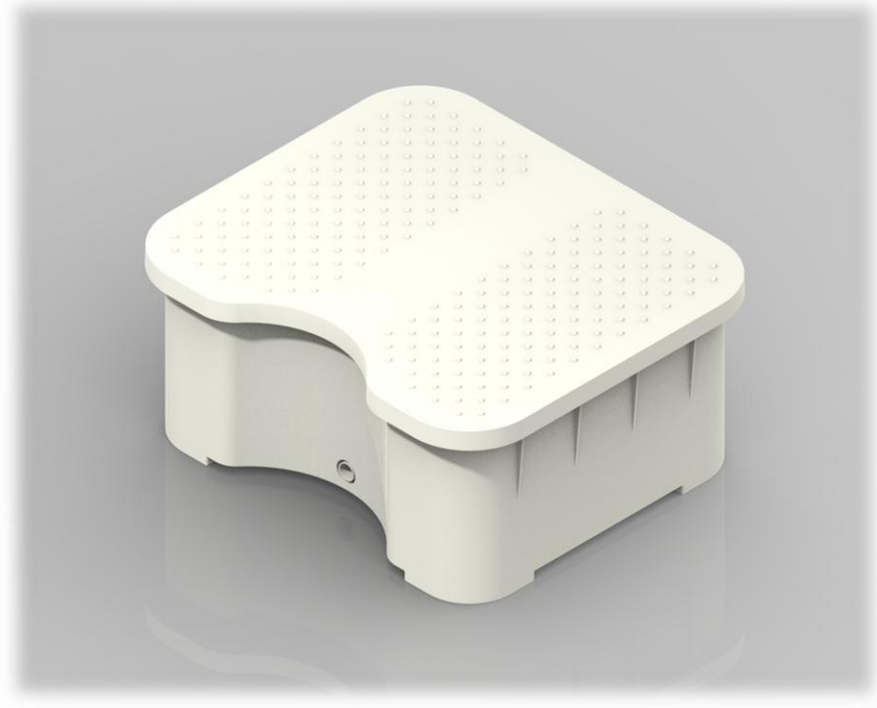
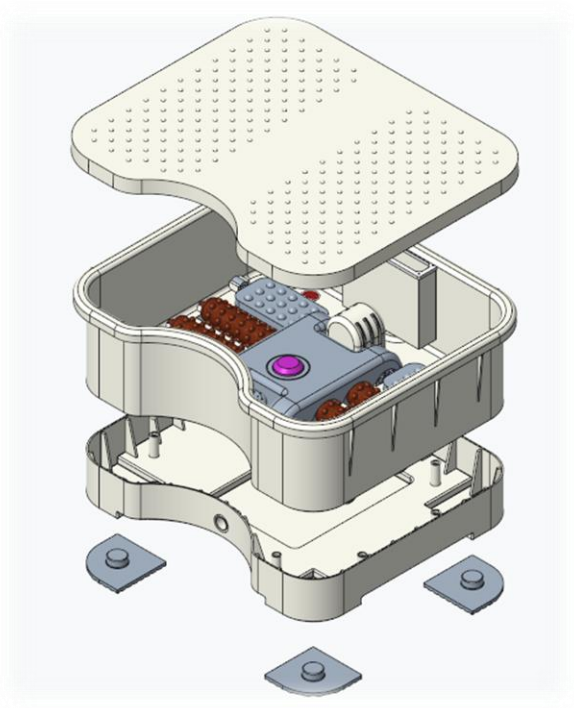
Gallery

New Product Innovation support



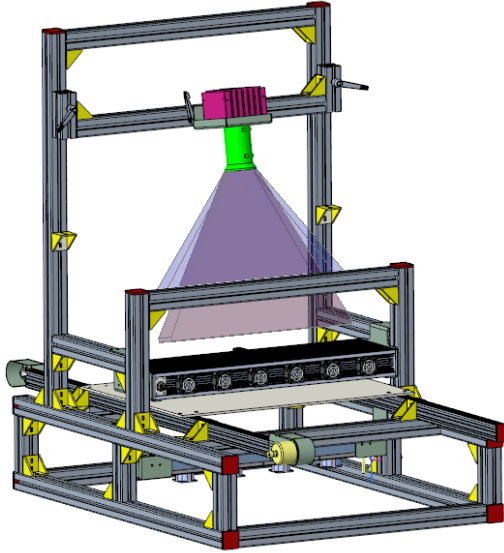
Gallery

New Product Innovation support

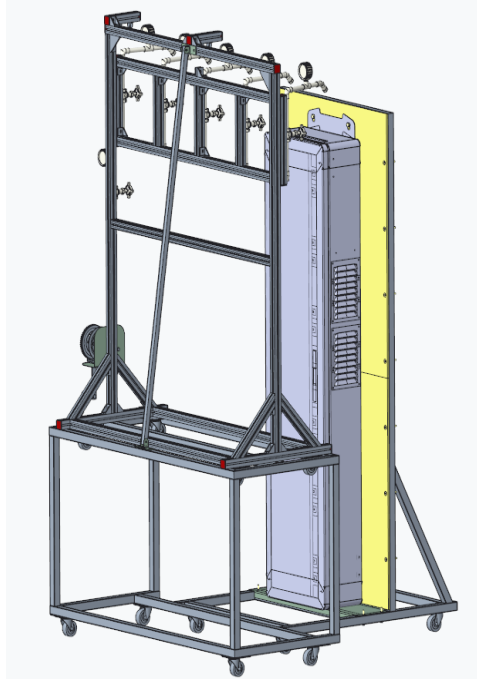


Gallery

Test Fixtures



Camera Test Fixture



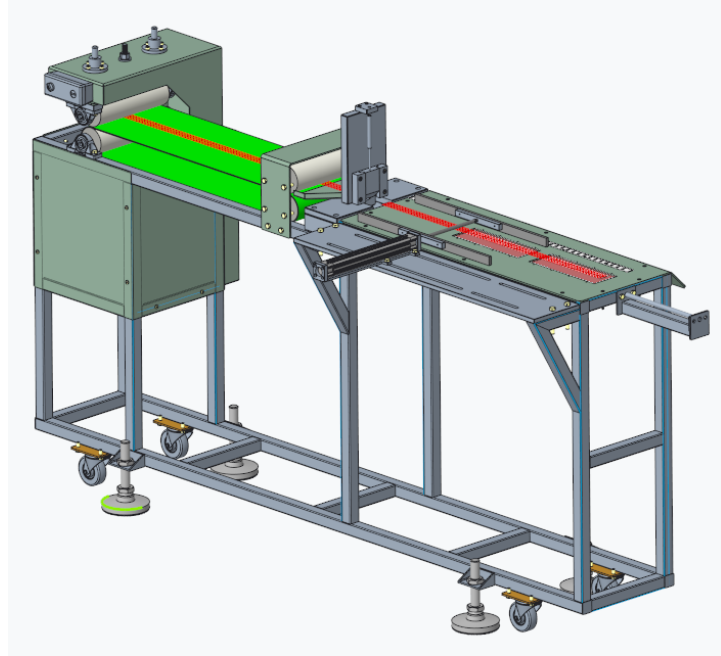
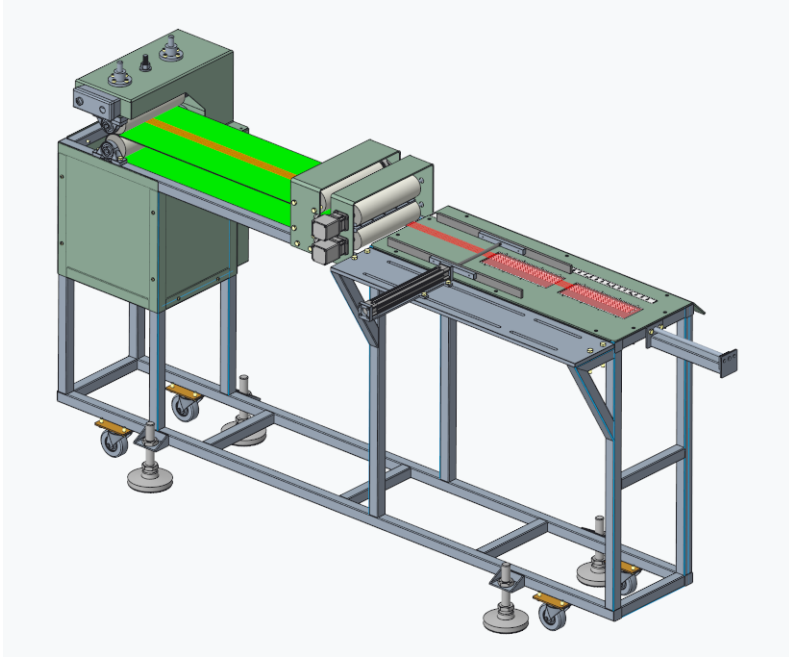
Rain Test Fixture



Aluminium Extrusion Profile and MS tube fabricated frame

Gallery

SPM-Wire cutting Machine Design



Thank You