

# PORTFOLIO



Hi,  
I'm Yash Batham

I am a design and development expert with a strong background in multiple disciplines. With 4 years of experience in the field, I have developed a unique expertise in:

- Sheet metal design and development
- Plastic component design
- Aluminium casted components
- Aluminium extrusion
- Turning components
- Electronic enclosure design
- Defence engineering

## Technical Skills:

- Proficient in CAD software (SolidWorks, PTC Creo, etc.) for precision design and prototyping
- Strong understanding of industry standards and regulations
- Understanding of mechatronic systems
- Skilled in material selection and specification (metals, plastics, composites)
- Knowledgeable in manufacturing processes and production methods
- Research Skills

# MY CREDENTIALS



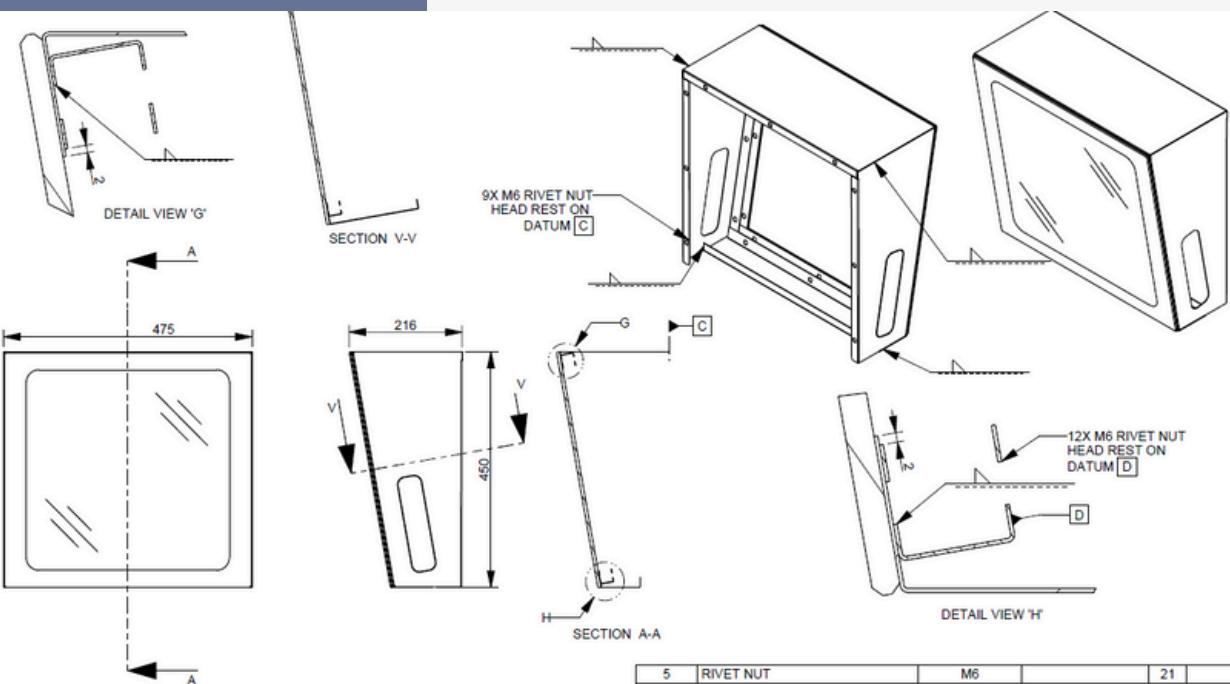
# INIT



## Digital Podium

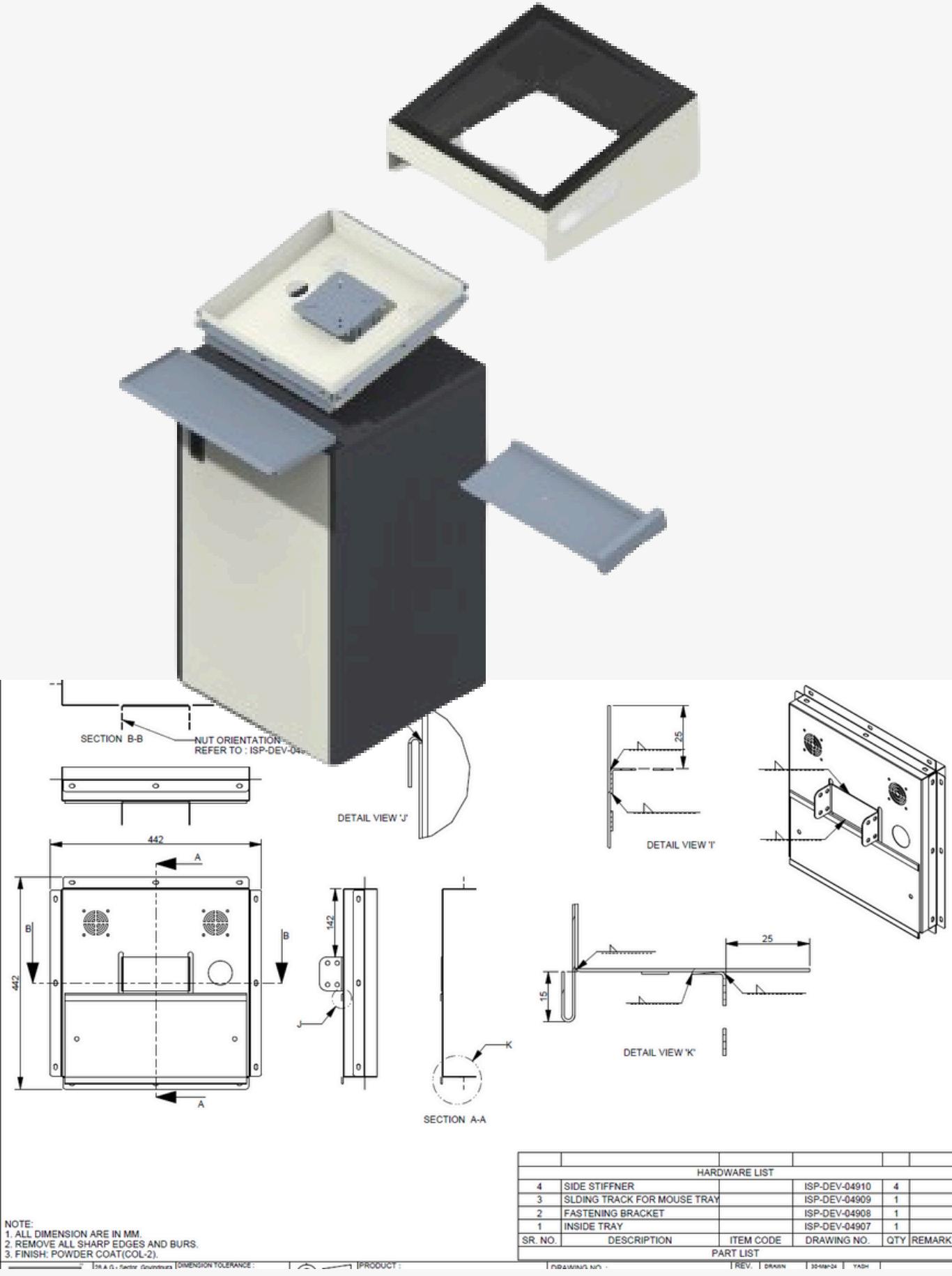
An ultimate tool for seamless lectures and presentations - the Digital Podium! Elevate your speaking engagements with its convenient monitor mounting, effortlessly sliding keyboard tray, and a dedicated mouse tray on the side. Impress your audience with a sleek and organized setup that enhances your delivery and professionalism.

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## Features:

- Crafted with a soft, yet durable sheet metal construction, delivering an elegant design that's easy to maintain.
  - Simple assembly process ensures quick setup without any hassle.
  - Designed to be production-friendly for seamless integration into any environment.
  - Features a smooth sliding mechanism for the mouse tray, ensuring convenience and efficiency.



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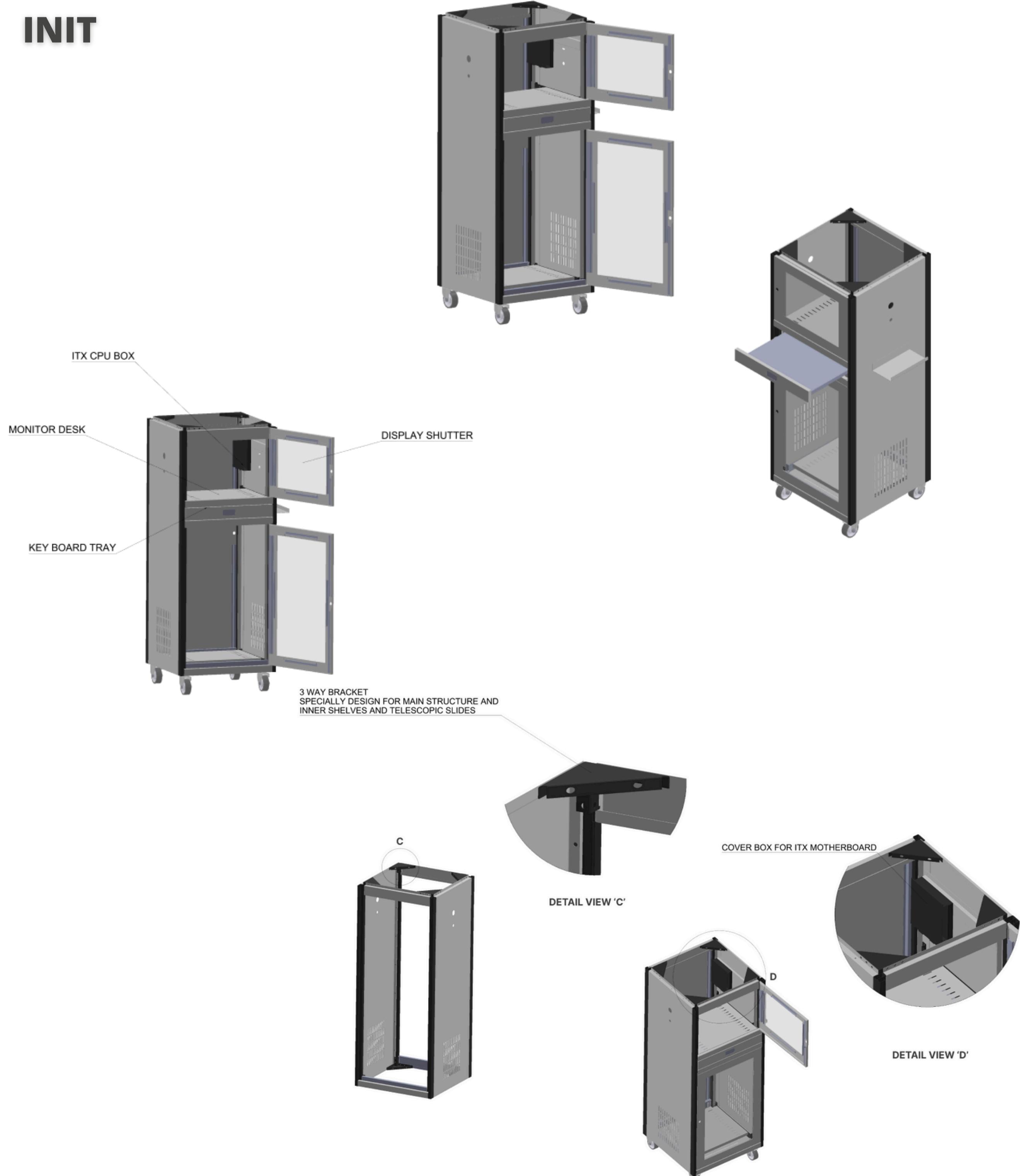
## Control Desk Panel

Specially design and developed for VOLVO-EICHER COMMERCIAL VEHICLE-BAGRODA

the panel design to consider as modular joinery and their operating system and production line. this panel can assemble and dismantle easily.



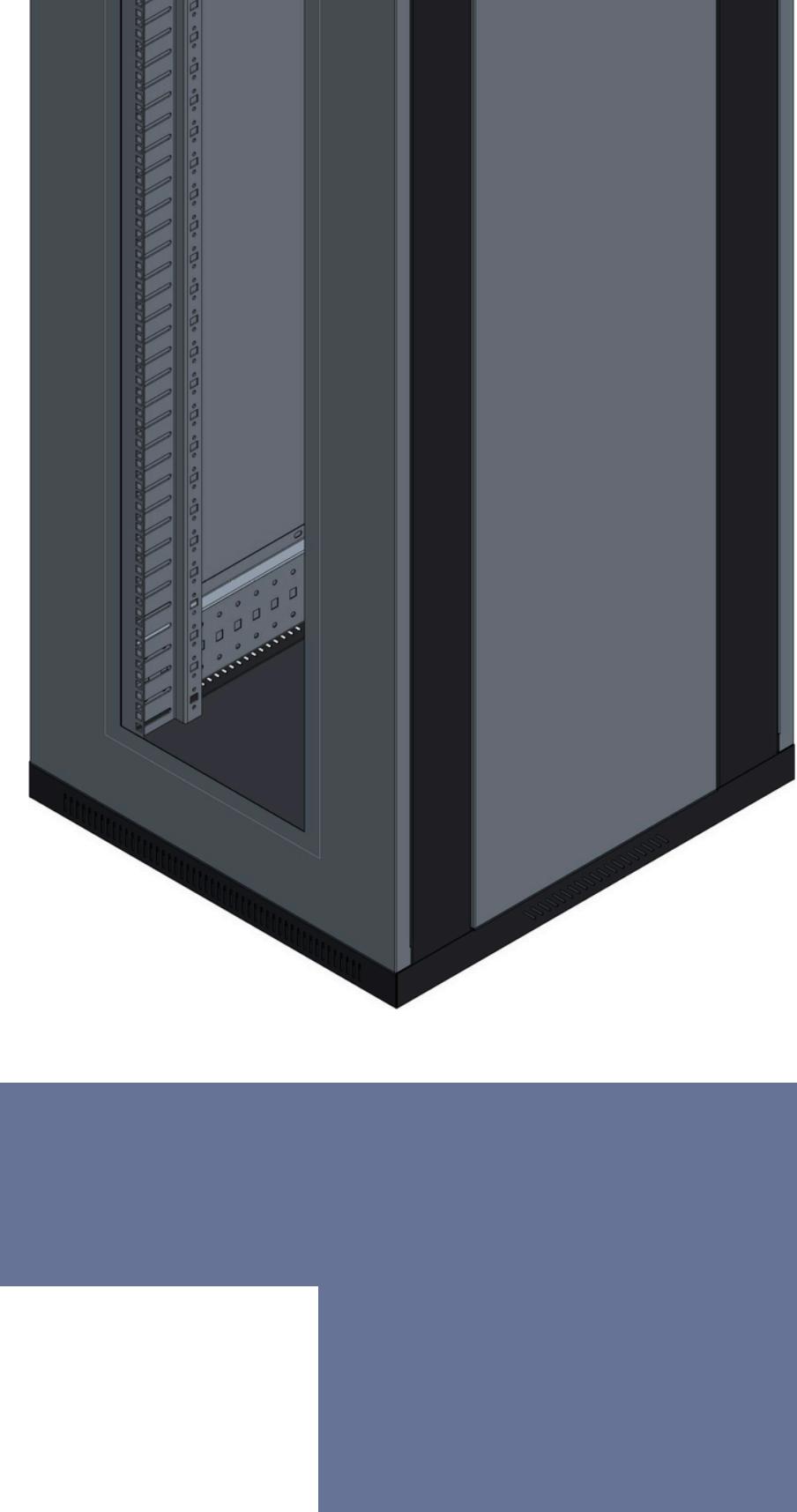
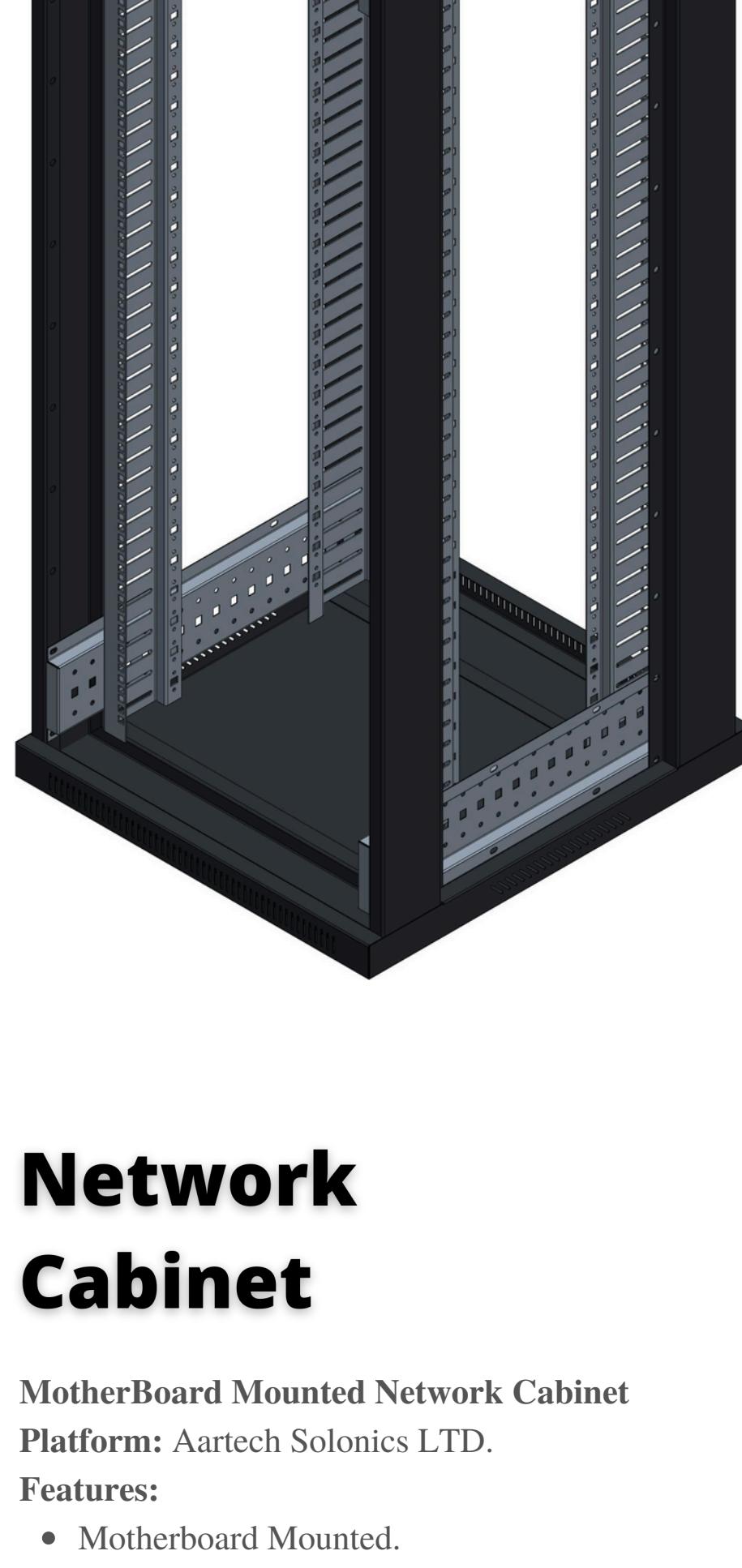
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## 32U Rack

### 32U Network Rack Cabinet(Under Development )

- The Cabinet to consider as 19" racks and Knock down mountings
- modular joinery
- cool ventilation and secure server
- this panel can assemble and dismantle easily



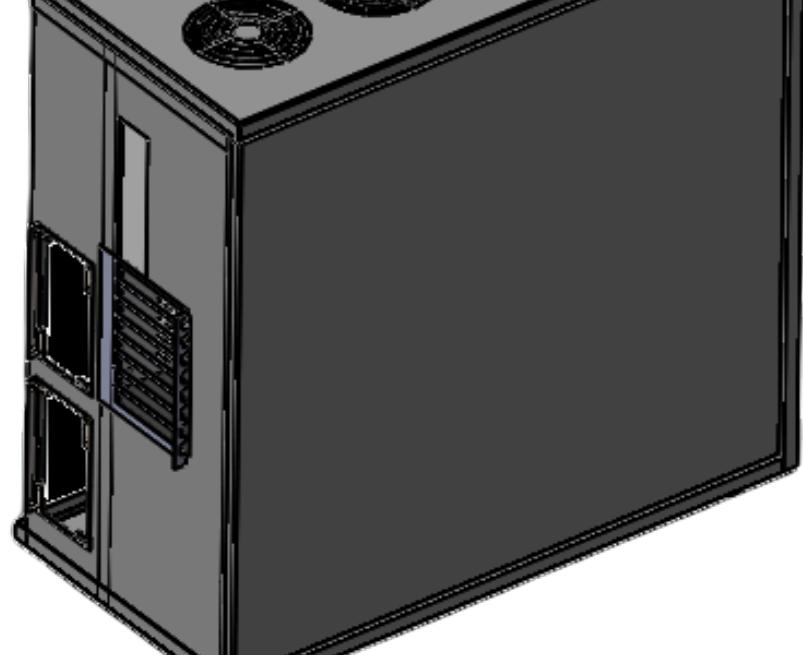
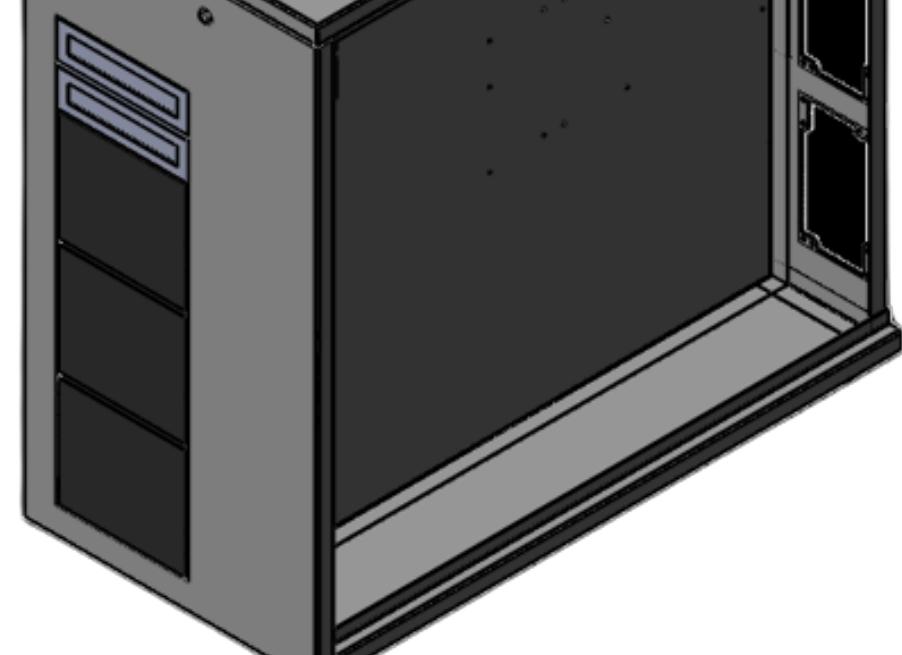
## Network Cabinet

### MotherBoard Mounted Network Cabinet

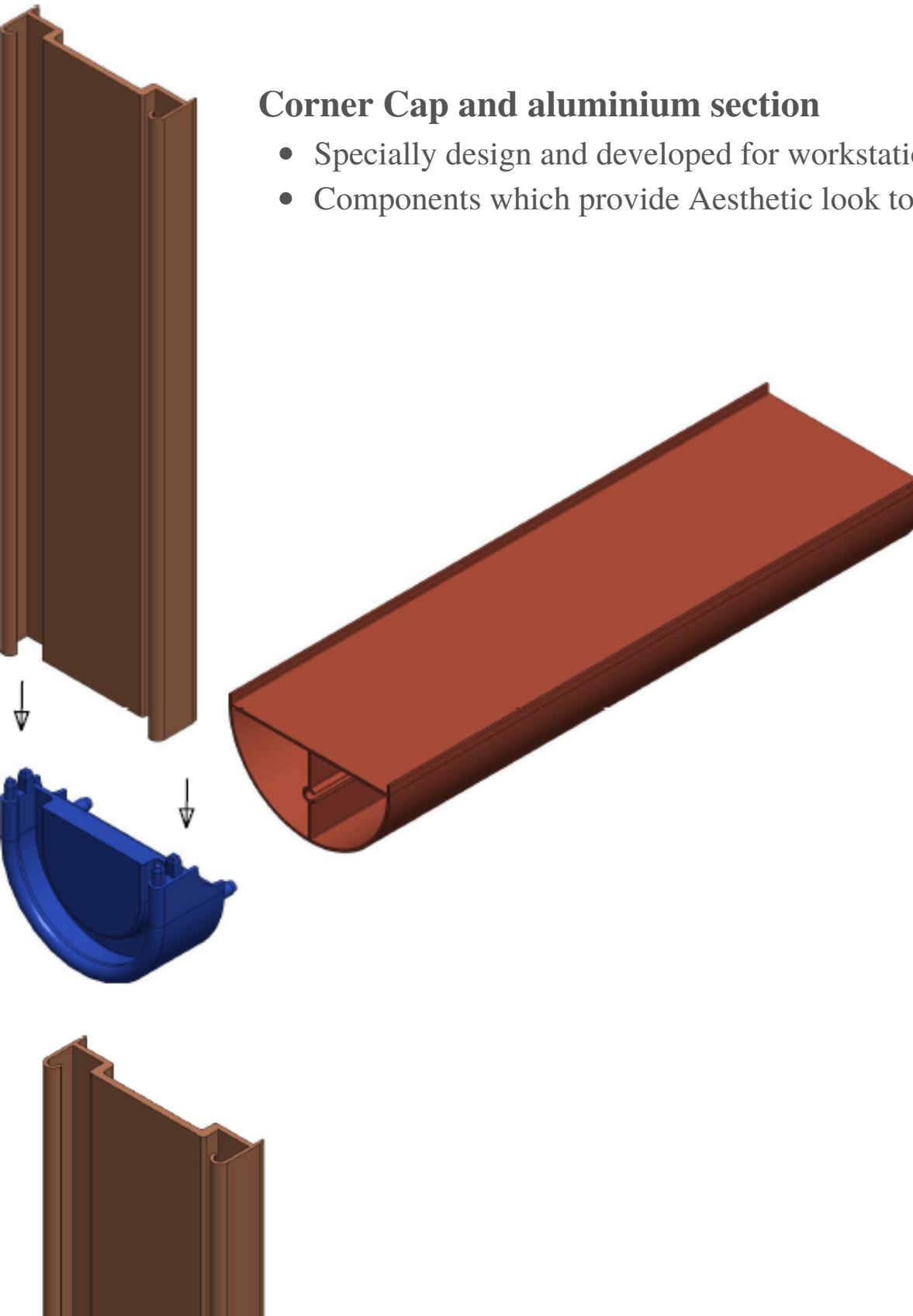
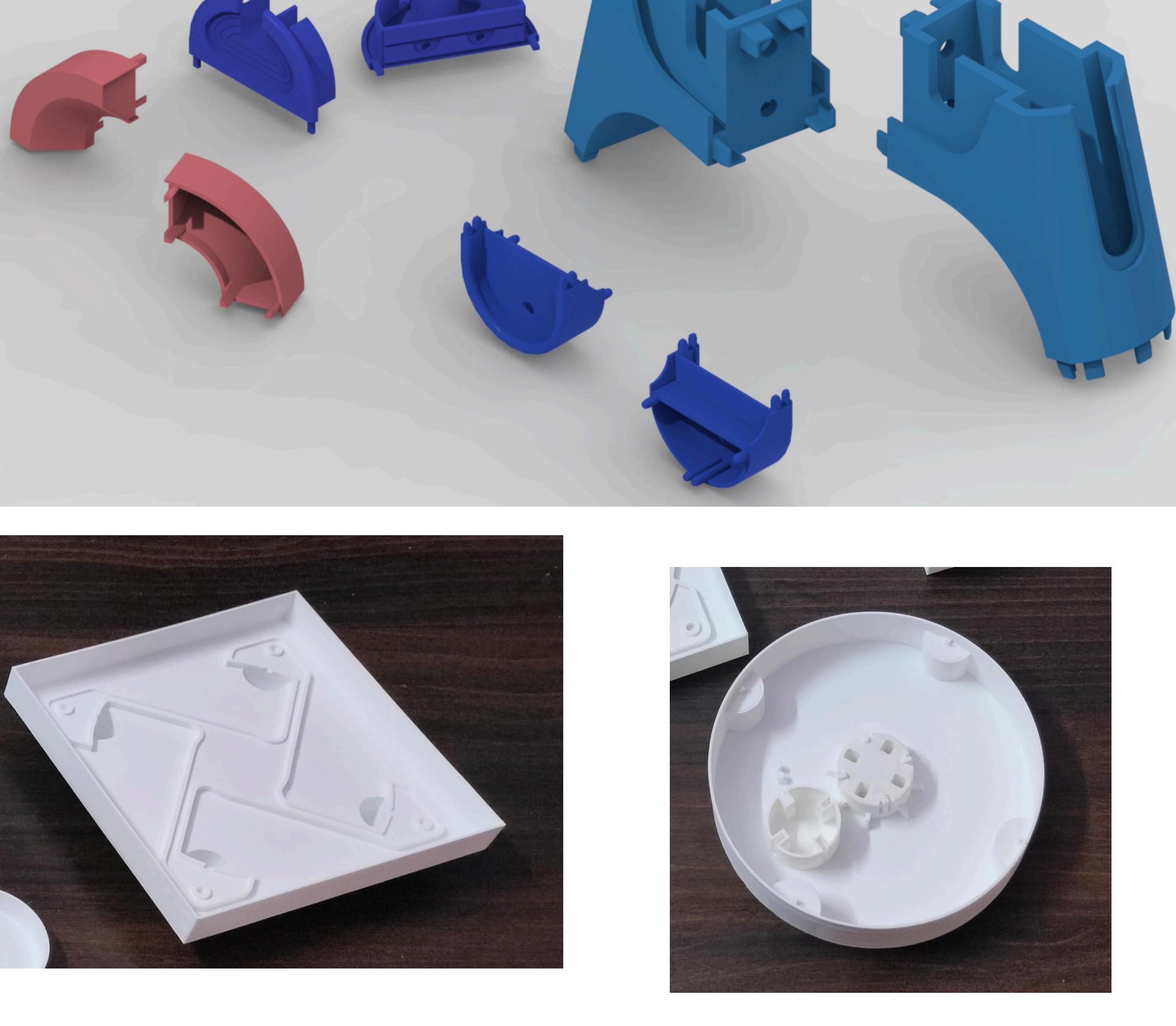
Platform: Aartech Solonics LTD.

#### Features:

- Motherboard Mounted.
- Cool Ventilation
- Upto three drivers can intall
- Two dvd reader
- Two supply can plug

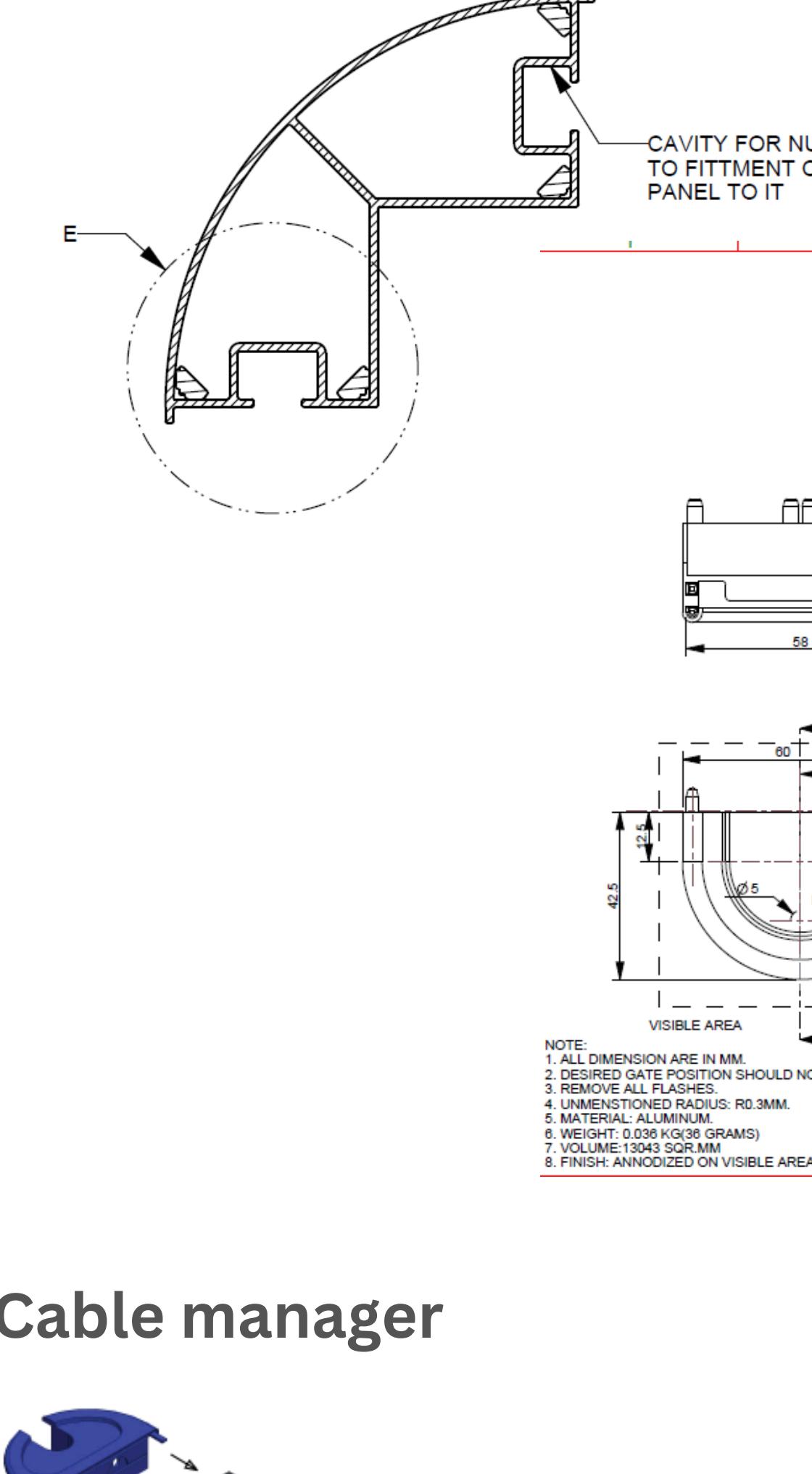
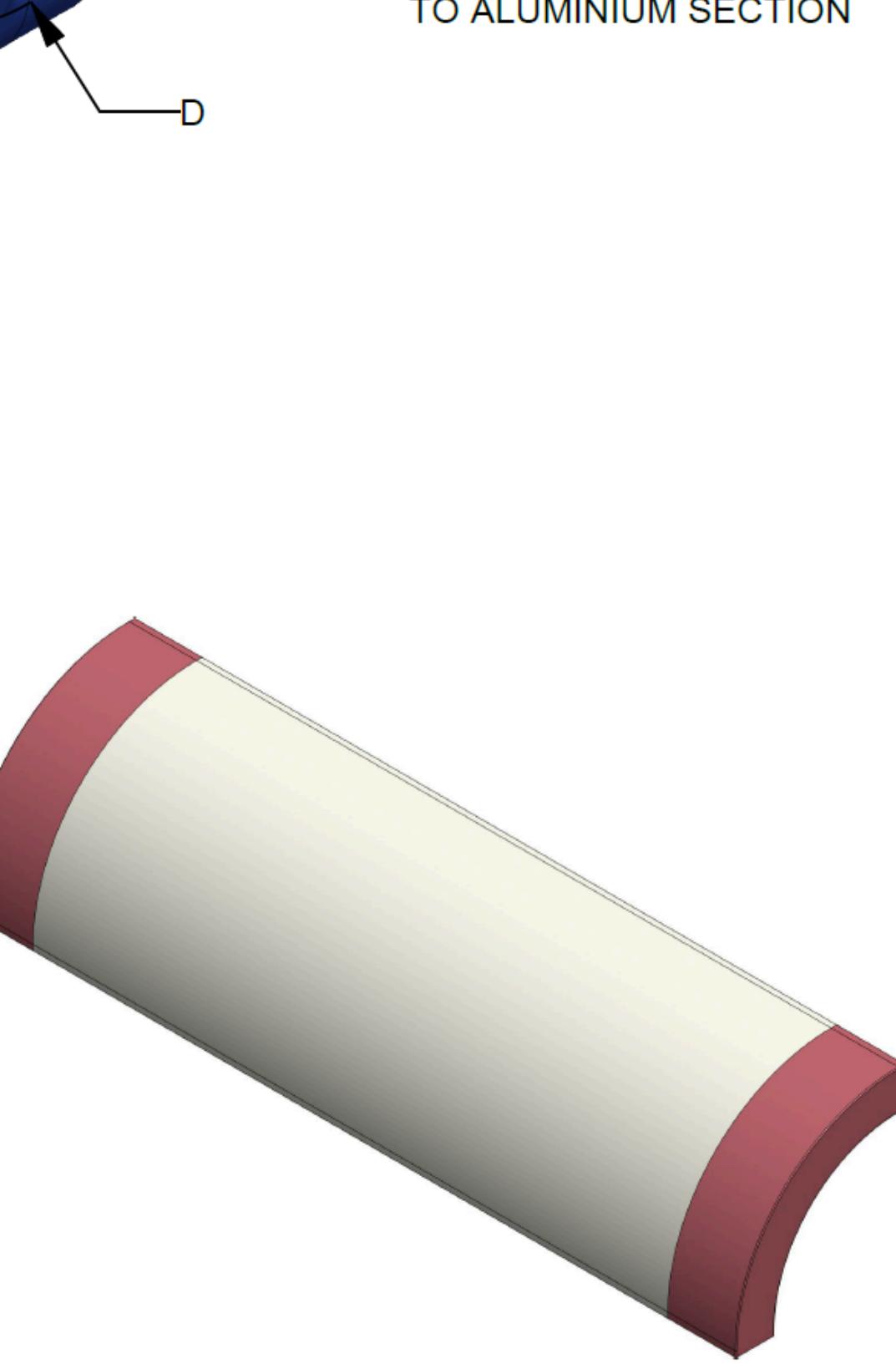
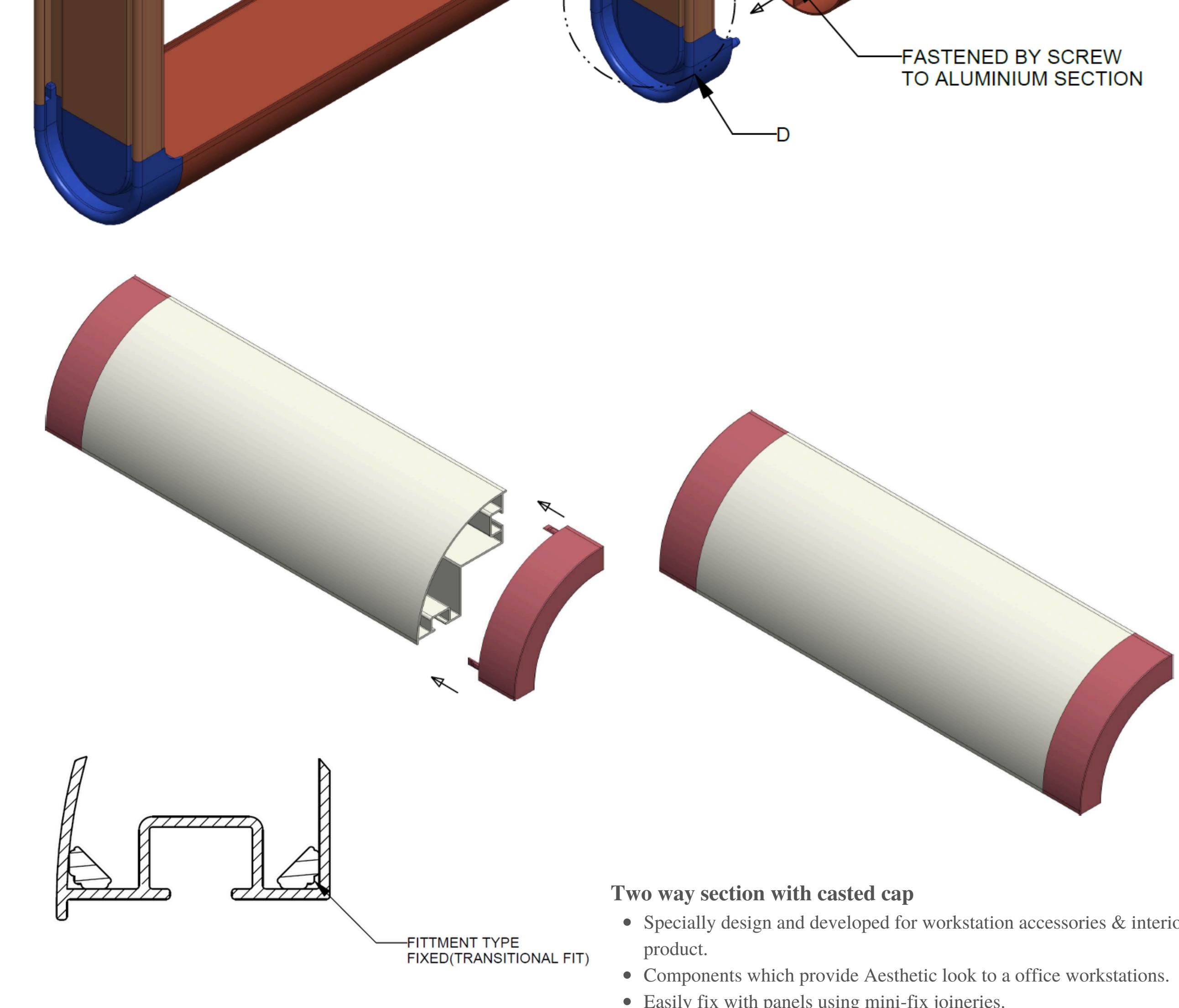


## Plastic Moulding & Aluminium Casting Domain

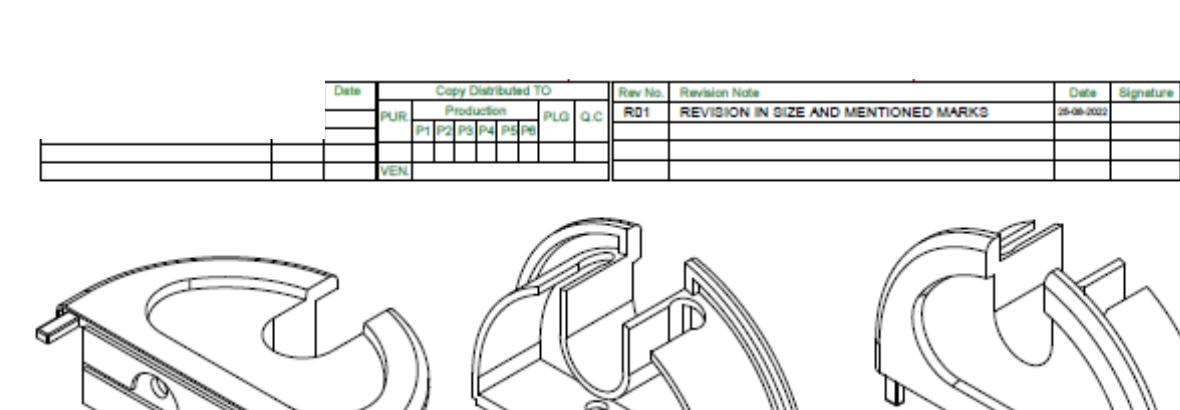
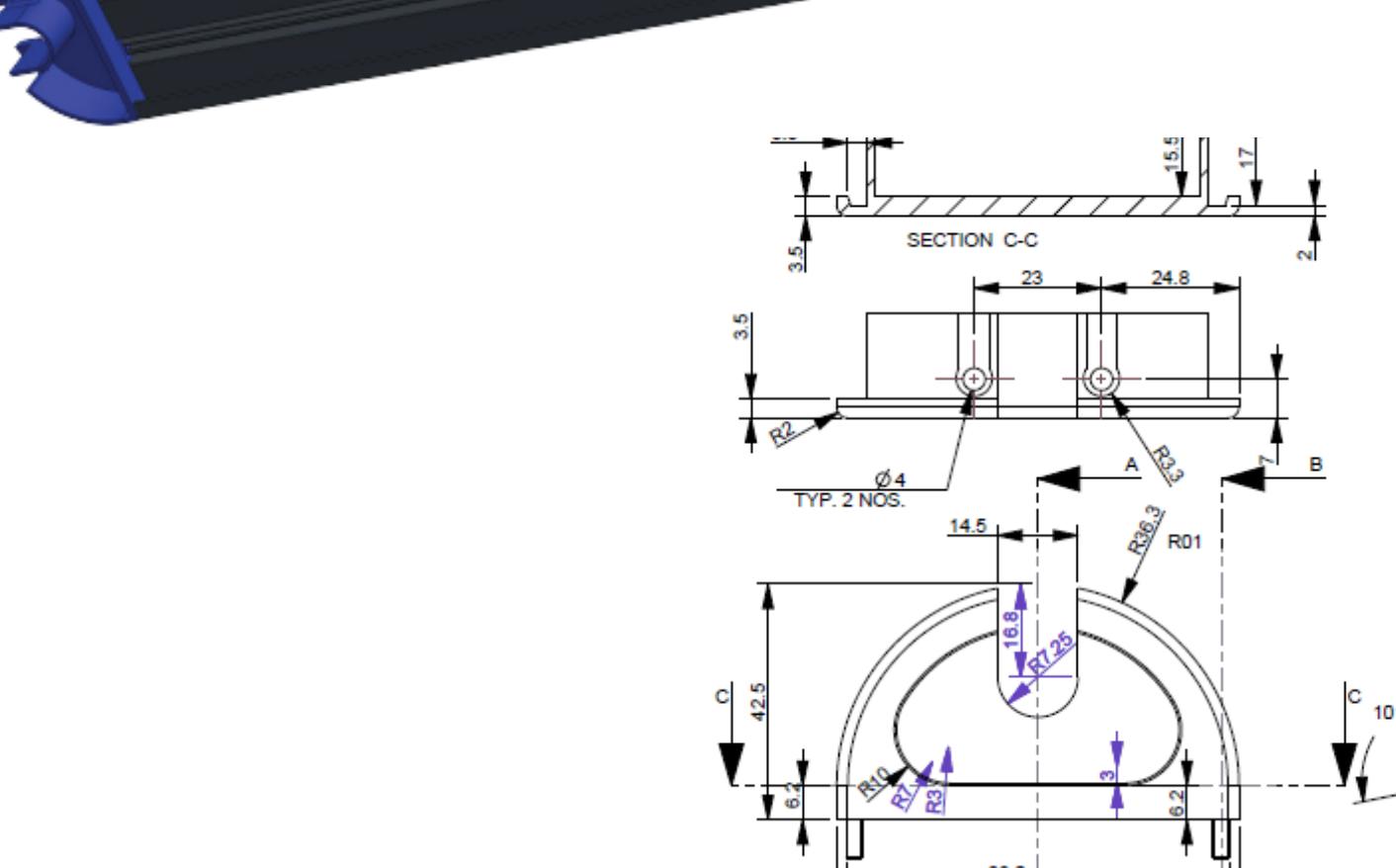


### Corner Cap and aluminium section

- Specially design and developed for workstation accessories.
- Components which provide Aesthetic look to a office workstations.

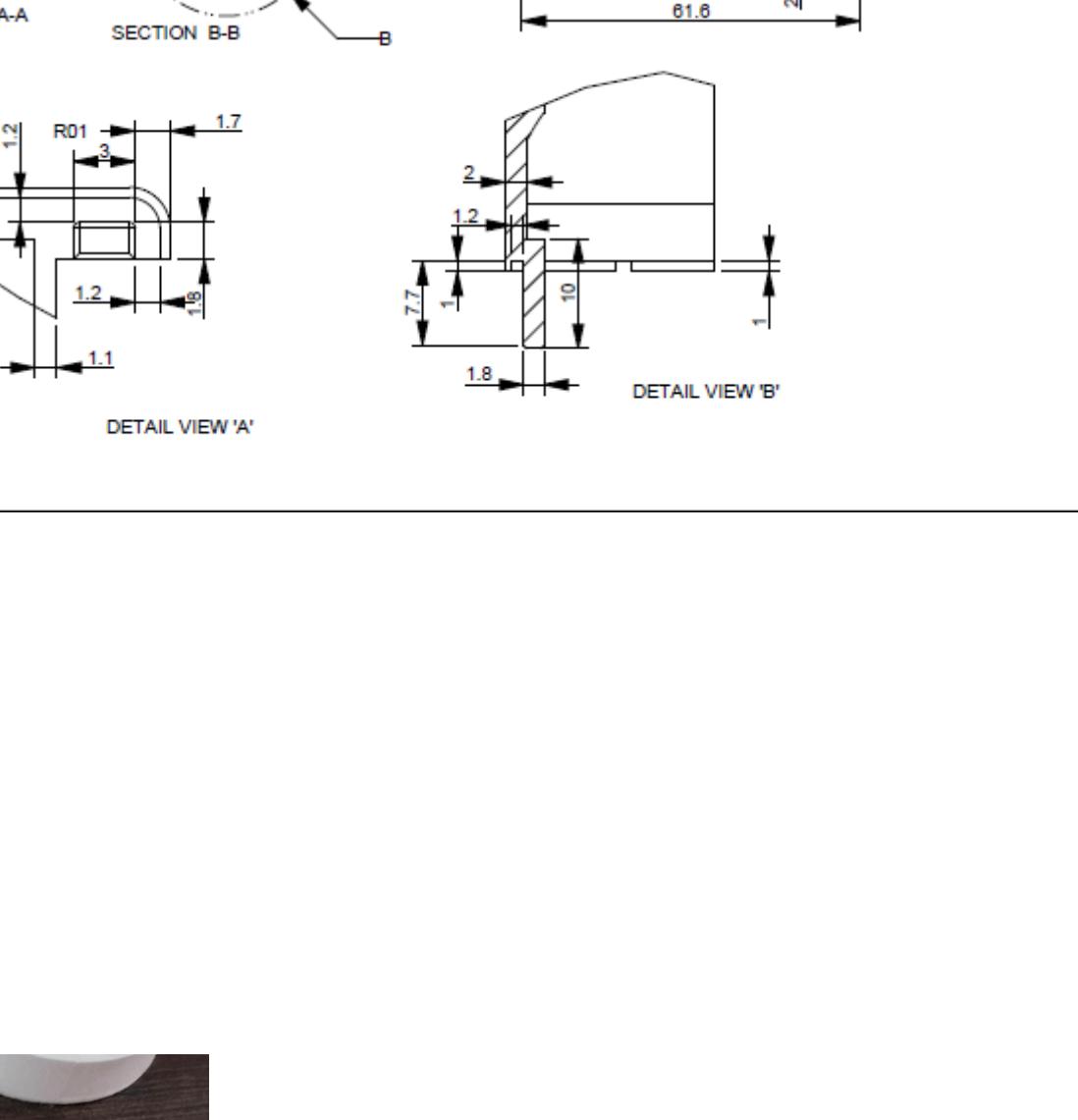


### Cable manager



### Cable Manager with Pen tray

- Specially design and developed for workstation accessories & interior product.
- Easily install on a table top by making specified cut.
- A moulded cap is design to allow cable pass to the switch box and Section can be use to keep the pens..



### Wire Clipping Without Undercuts

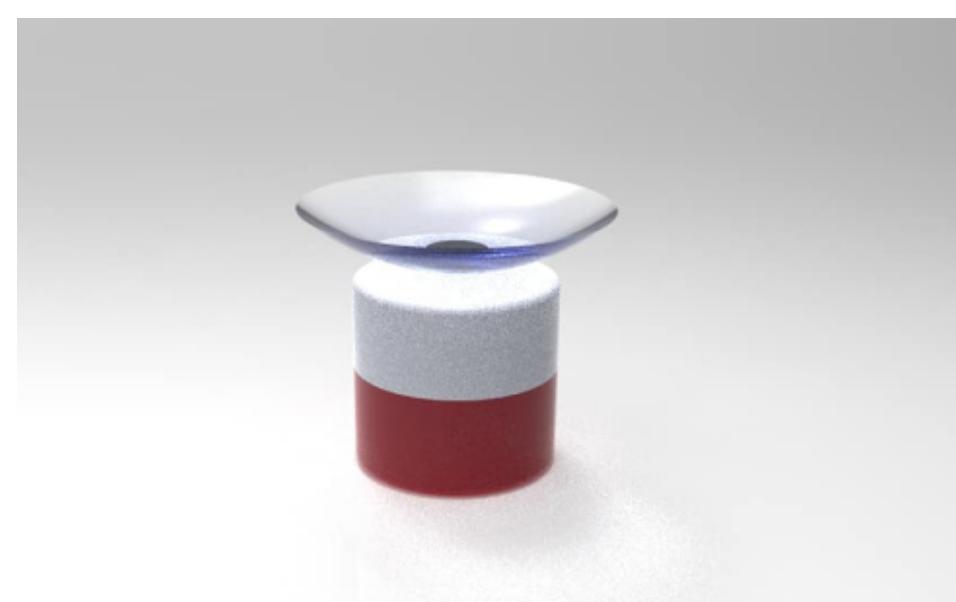
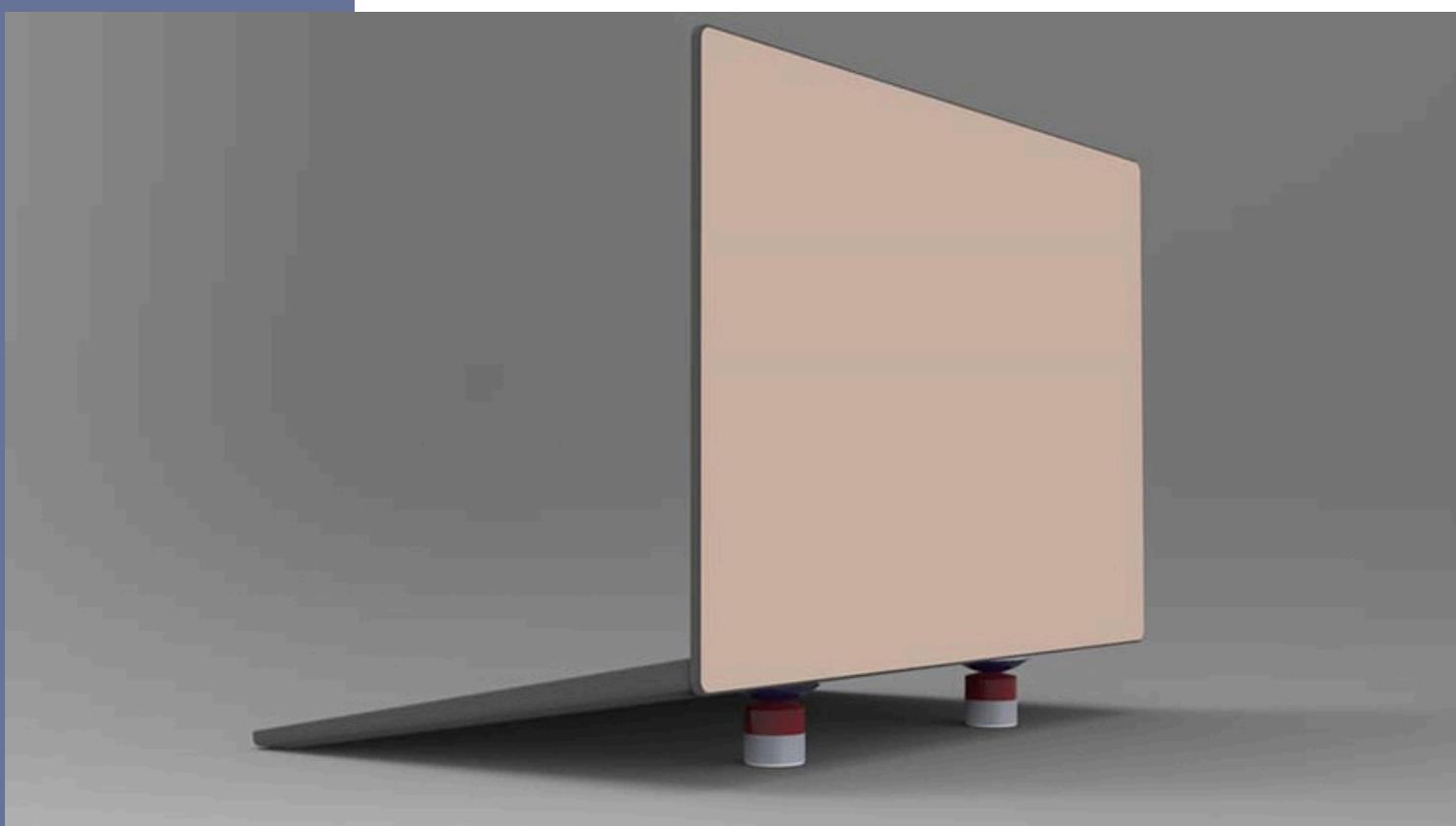
- Specially design and developed for closer case.
- Wire can easily inserted on stud clip.
- Feasible to mould it with one sliding block only.



# Academic Achievements

## FIRST DESIGN PATENT ‘LAPTOP STAND’

- The stand basically work on suction rubber cup.
- Sticks with laptops bottom surface, which reduce instability,
- Small in size to reduce handling.



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## CONFERENCE PAPER ‘Fundamentals aspects of incremental sheet forming’

### Fundamentals aspects of incremental sheet forming

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462021, India.*

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#### Abstract:

Incremental sheet forming is better alternative of press working operations which are used to manufacture prototypes at low volume production at a rapid rate. It offers various merits of reduction in die cost with increment in formability of products. The objective of the present paper is to review the fundamentals of incremental forming. Incremental sheet forming can be performed experimentally generally on a CNC machine with experimental set-up with an application of CAD/CAM platform. Single point, two point with partial die, two point with full die and incremental forming with contour tools as well as double sided incremental forming are various forms of incremental forming. It is gathered that ISF can also be performed experimentally on AMINO machines, through robotic arms, double -sided incremental forming setups. Selection of tool on the basis of geometry of tool and deciding its path through CAD/CAM system is also crucial task which affects formability of products. Incremental sheet forming found to be quite efficient in manufacturing of complex parts with high accuracy with reduced cost and at rapid rate.

**Key words:** Incremental forming; Sheet; Tool-path, CAD/CAM.

# INIT

## Design and Testing Of Fixtures

- Specially design for KIVIK SO3(product of IKEA) manufacturing.
- Assembly sequencing of each assembly planning and executes.
- Fixture planning as per assembly sequence and design.

