

CUSTOM COMPONENTS

# Build-to-print CNC component manufacturing for industrial interfaces

## MANUFACTURING DATA SHEET

Technical overview of manufacturing capabilities for high-precision mechanical components, industrial overlays, and sub-assemblies produced to customer CAD specifications.

### PRECISION CNC MACHINING

Tight-tolerance manufacturing of front plates and housings in various metals and technical polymers, focused on close tolerances and industrial finishes tailored to your specifications.

### INDUSTRIAL GRAPHIC OVERLAYS

Production of interface layers and protective overlays using high-durability screen printing for extreme resistance to chemicals, abrasion, and harsh environments.

### MECHANICAL SUB-ASSEMBLIES

Supply of install-ready components including integrated fasteners, gaskets, and mounting hardware, optimized for seamless integration into your production line.

### SCALABLE INDUSTRIAL QUALITY

Optimized manufacturing for prototypes and small-to-medium series, ensuring repeatable quality and strict revision control for a stable and reliable industrial supply chain.

## TECHNICAL SPECIFICATIONS OVERVIEW

<b>Base Materials</b>	Aluminium 6082-T6, Stainless Steel 316L, Technical Polymers, and Industrial Polyesters.
<b>Machining Process</b>	Multi-axis CNC milling, high-precision drilling, and exact housing execution to CAD specifications.
<b>Technical Finishes</b>	Anodizing (Type II/III), Bead Blasting, Brushing, and high-durability sub-surface screen printing.
<b>Integrated Fasteners</b>	CD Welded studs, Precision PEM® stud insertion, and high-performance sealing gaskets.
<b>Compliance</b>	Build-to-print execution supporting industrial standards, IP ratings, and material traceability (ROHS/REACH).

**Operational Note:** Our workflow is optimized for 100% traceability and strict adherence to the critical tolerances and revision control defined in your technical documentation.

**Certification Disclaimer:** Vermenton manufactures hardware strictly to customer CAD/BOM and specifications. While we ensure the mechanical integrity and material compliance of individual parts, final system-level certification remains the responsibility of the product owner.