

FABRICATION CAPABILITIES OVERVIEW (REV20251219) - P1

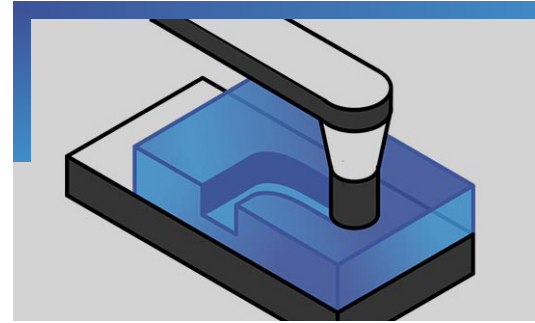
FABRICATION **CAPABILITIES** OVERVIEW

We deliver advanced plastic fabrication services across Europe. From high-precision CNC machining and large-scale forming to final assembly and finishing, we provide a turnkey manufacturing solution under one roof.

CNC MILLING AND ROUTING

High-precision machining for industrial panels and mechanical parts.

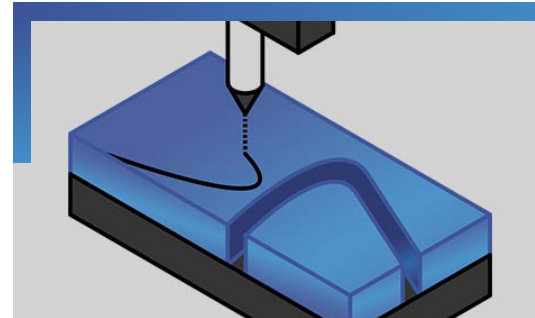
- **Max Bed Size:** 2000 x 3000 mm
- **Max Z-Axis Height:** 190 mm
- **Standard Tolerance:** +/- 0.1 mm
- **Smallest Drill Diameter:** 1.0 mm



LARGE FORMAT 5-AXIS WATERJET CUTTING

Cold cutting for thick (up to 350mm) or complex materials without thermal stress.

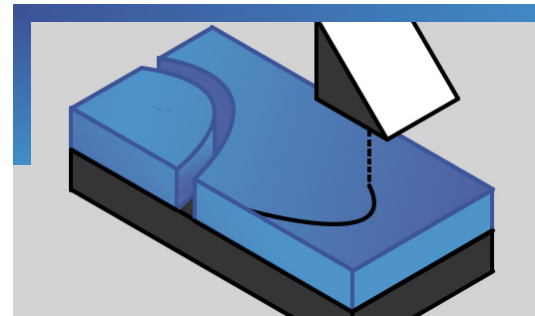
- **Materials:** All plastics, composites, and rubber up to massive 6m x 4m sizes.
- **Advantage:** No heat-affected zone (HAZ). Cost-effective 4--head series cutting.
- **Edge Quality:** Matt/Sandblasted finish.
- **Ideal For:** 5-axis 3D shapes, bevels, large tubes, and thermally sensitive parts.



PRECISION LASER CUTTING & POLISHING

High-speed precision cutting for acrylic and visual components.

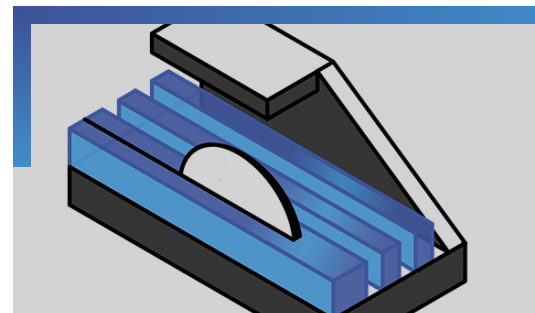
- **Max Cutting Dimensions:** 1200 x 900 mm.
- **Max Thickness:** 10 mm (Acrylic/PMMA).
- **Cutting Tolerance:** +/- 0.5 mm.
- **Edge Quality:** Clean, polished and glossy directly from the laser.



PRECISION PLASTIC CUTTING

Accurate, repeatable cutting for thermoplastics and composites.

- **Cutting Methods:** CNC Panel Saws, Routers, Laser, and Waterjet systems.
- **Material Range:** ABS, PMMA, PC, PETG, PP, HDPE, and Composites.
- **Standard Tolerance:** Typical range of +/- 0.2 - 0.5 mm based on method.
- **Value Add:** Nesting optimization, deburring, and labeled kitting for assembly.



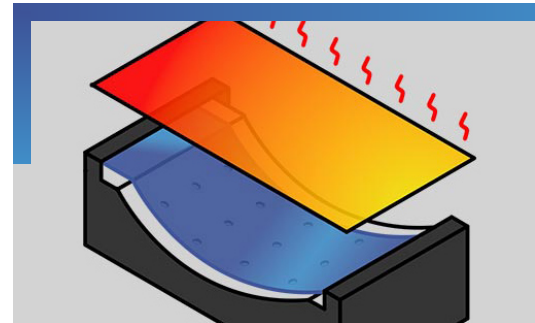
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FABRICATION **CAPABILITIES** OVERVIEW

VACUUM FORMING & THERMOFORMING

Seamless, lightweight housings using heavy-gauge forming.

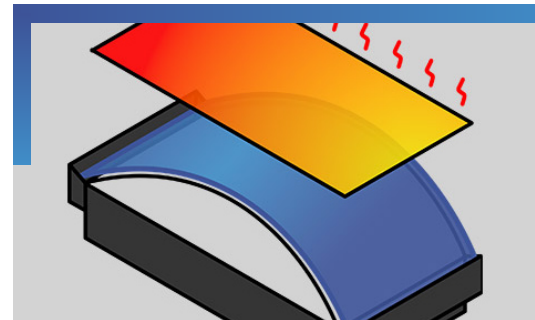
- **Max Forming Area:** 2000 x 1250 mm (1900 x 1150 mm part size).
- **Max Draw Depth:** 600 mm (Deep Draw).
- **Thickness Range:** 2 mm to 8 mm.
- **Mould Materials:** Aluminium, MDF, and Resin.



DRAPE FORMING & SHAPING

Large format oven forming for simple curves and architectural glazing.

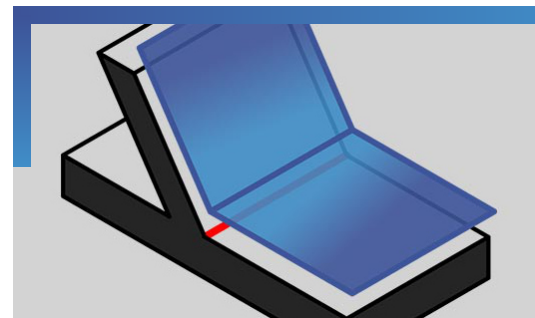
- **Process:** Gravity or press forming in large convection ovens.
- **Capabilities:** Production of single-axis curves, cones, and cylinders.
- **Materials:** Specifically suited for PC, PMMA, PETG, and ABS.
- **Optical Quality:** Maintains excellent clarity without mould marks.



HOT (LINE) BENDING

Localised heating for sharp, clean angles in machine guards and covers.

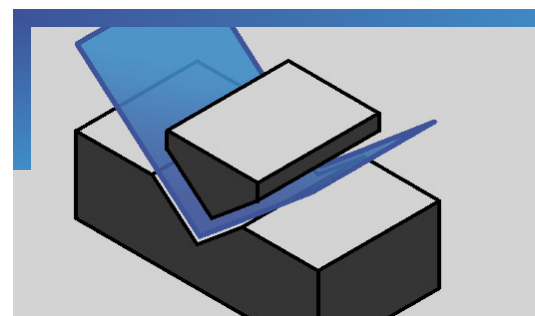
- **Max Bending Length:** 2000 mm.
- **Max Material Thickness:** Up to 20 mm (for Polycarbonate).
- **Bending Angle Limits:** 0° to 180° depending on thickness.
- **Materials:** Ideal for stress-free bends in Acrylic, PC, and PVC.



COLD BENDING & FOLDING

High-speed mechanical shaping for impact-resistant thermoplastic sheets.

- **Process:** Mechanical brake-press or cold-line folding without heating.
- **Materials:** Specifically designed for Polycarbonate (PC) and PETG.
- **Benefits:** Rapid, cost-effective production for guards and enclosures.
- **Technical Spec:** Minimum bend radius of 2 mm to maintain structural integrity.



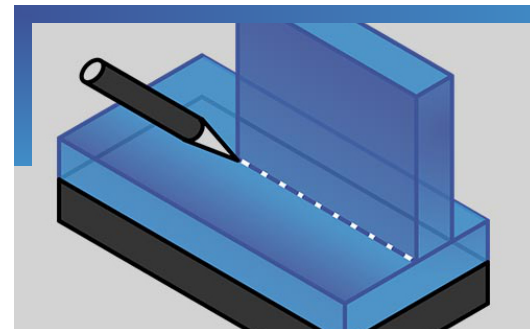
FABRICATION CAPABILITIES OVERVIEW (REV20251219) - P3

FABRICATION **CAPABILITIES** OVERVIEW

PLASTIC BONDING & CHEMICAL WELDING

High-strength joining for thermoplastics and technical components.

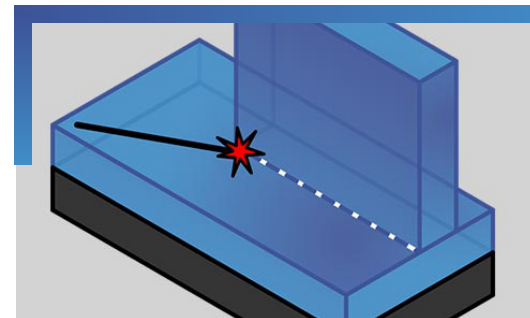
- **Structural Bonding:** Adhesives for dissimilar or gap-filled joints.
- **Chemical Welding:** Molecular fusion for seamless and invisible joints.
- **Materials:** Specifically for Polycarbonate, PMMA, PETG, and ABS.
- **Advantage:** Airtight and watertight without mechanical fasteners.



INDUSTRIAL PLASTIC WELDING

High-strength structural joining for heavy-duty industrial components.

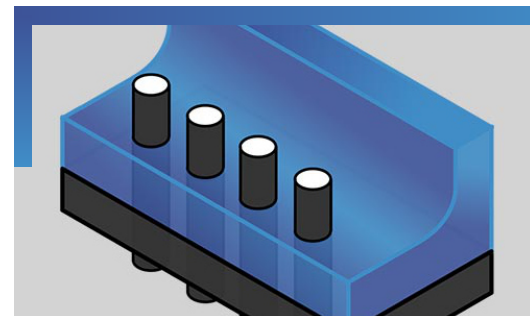
- **Welding Methods:** Butt (Mirror), Extrusion & Hot Gas welding techniques.
- **Materials:** Engineered for high-integrity molecular bonds in HDPE, PP & PVC.
- **Technical:** Extrusion welding used for structural materials thicker than 6 mm.
- **Applications:** Oversized pallets, chemical-resistant tanks, and safety panels.



ASSEMBLY & FINISHING

Turnkey component integration & finishing to deliver ready-to-use industrial parts.

- **Assembly:** Installation of threaded inserts, Helicoils, hinges, & rubber gaskets.
- **Surface Finishing:** Expert polishing, matt sanding, and anti-static treatments.
- **Component Integration:** Joining parts and hardware into finished units.
- **Kitting & Logistics:** Packing complete sets for direct delivery to production lines.



SERVICE AND QUALITY STANDARDS

- Quality Certification: ISO 9001 (VSRS)
- Express Service: 3 Working Days (Upon Request)
- Standard Lead Time: 10 – 15 Working Days
- Website: www.srt-plastics.com

The information contained within this datasheet is for guidance only.

The data is not exhaustive. All figures quoted are nominal. Any applications should be checked with SRT Plastics prior to use.