

SUBTRACTIVE MANUFACTURING

Subtractive manufacturing uses the latest CNC and fabrication techniques to manufacture parts using the production chosen material.



Processes

5-axis CNC machining is ideal for precision engineered parts in a wide range of materials for a variety of industries.

EDM is a machining operation using electrodes or wires that can generate fine detail and high precision.

Laser cutting/water jet is suitable for profiling and subsequent fabrication.

Process	Time	Material	Quantity	Application	Examples
CNC (Metal)	1-2 weeks	Metal (see below)	1000s	Functional Parts	Seat belt hook
CNC (Plastic)	1-2 weeks	Plastic (see below)	1000s	Functional Parts	Bush or bearing
CNC (Foam)	1-2 weeks	Foam (see below)	10s	Functional Parts	Seat pad
Laser Cutting	1-2 weeks	Various	1000s	Functional Parts	Vent
EDM	1-2 weeks	Metal (see below)	10s	Functional Parts	Jewellery

Materials

Plastics: ABS, Acetal, Acrylic, Nylon, PEEK, Polycarbonate, Polyester, Polyethylene, Polyimide, Polypropylene, PPS, PTFE, PVC, PVDF.

Metal: Aluminium, Brass, Copper, Stainless Steel.

Foam: PU, EPP, EPS.

