



## Design office and 3D CAD Services

### CAD Design:

Our Design & Engineering Dept. offers support to our customers in the areas of Design, Material selection, Production methods, specialist tooling and assembly methods.

Projects range from simple holding, storage or masking fixtures to complex pick and place units that need a high level of CAD Drawing and engineering specification. They are supplied with full engineering certification, material traceability and a list of spare parts.

### Material selection:

We have chosen materials for projects such as Electro Static Discharge (ESD), high impact plastics such as PEEK, tough durable steels, specific stainless steels with higher than normal levels of constituent chemical properties, plastics required to operate at temperatures above 400°C and resistance to high acidity or high exposure to chemicals, Ceramics, Sintered and cast materials for various strength and mechanical properties. Aluminium Bronze for hardness and durability in bushings and gear chains.

Aluminium grades such as HE30 for good anodizing properties, tooling plate 6160 for flatness and stability.

Steels in ranges AISI 1020 to carbon steels in the AISI range 4140 as well as Stainless steel types 304 , 316, 316L.

Plastics: Acetal, Nylon, CPCV, Textron, PEEK, Ketron , UHMWPE

### We have also designed:

- Clamping fixtures
- Assembly jigs
- Customized workstations
- Test fixtures, mechanical push / pull, destructive, non destructive, electronic test, vibration testing, noise levels, torque, liquid flow
- Specialized hand tools
- Hand insertion assembly/ disassembly tools

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