

RAPITYPES

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PROTOTYPE & LOW VOLUME MANUFACTURE

CNC MACHINING METAL

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RAPITYPES LIMITED SPECIALISE IN THE PROTOTYPING AND LOW-VOLUME MANUFACTURE OF METAL COMPONENTS.

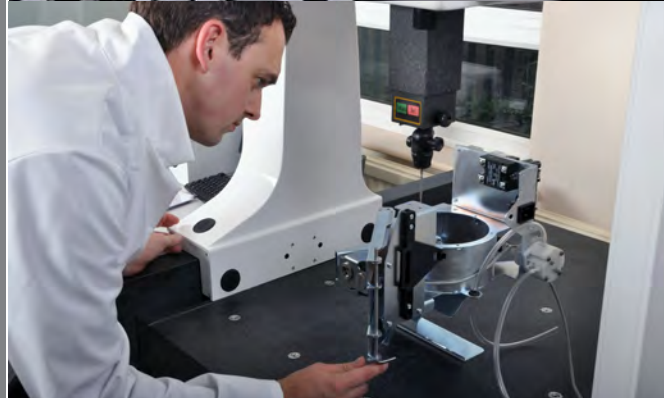
GETTING TO FIRST BASE WITH A NEW PROJECT IS A PERENNIAL PROBLEM IN NEW PRODUCT DEVELOPMENT, ESPECIALLY WHEN THIS INVOLVES SOURCING THE PARTS TO BUILD A TEST MODEL OR PROTOTYPE. OFTEN THESE PARTS ARE ONLY REPRESENTATIVE OF A GIVEN PRODUCTION PROCESS, BUT NONETHELESS MUST PERFORM CORRECTLY IN TERMS OF A RANGE OF PHYSICAL PARAMETERS SUCH AS TENSILE STRENGTH OR FLEXURAL MODULUS. PRODUCTION INTENT PROTOTYPE COMPONENTS ARE OFTEN NEEDED TO FACILITATE A PILOT BUILD, OR PERFORM A DROP TEST; THEY CAN ALSO BE VITAL IN PERFORMING STRUCTURAL ANALYSIS OR CARRYING OUT ENVIRONMENTAL TESTING.

RAPITYPES SPECIALISE IN THE PROTOTYPING AND LOW-VOLUME MANUFACTURE OF METAL COMPONENTS. USING THE LATEST 3 & 5 AXIS HIGH SPEED CNC MACHINING CENTRES AND CNC EDM, RAPITYPES CAN PRODUCE HIGHLY ACCURATE COMPONENTS IN THE SELECTED TARGET MATERIALS, DIRECT FROM CAD DATA.



THE **CNC SOLUTION** CAN DELIVER A WIDE SPECTRUM OF OPTIONS TO SATISFY CRITICAL TEST EVALUATION, AND CAN DELIVER PARTS FAR QUICKER THAN PROTOTYPE METAL CASTINGS. THIS CAN BE ADVANTAGEOUS, AT THE EARLY STAGES OF DEVELOPMENT, IF THE CHOSEN ROUTE TO PRODUCTION IS PRESSURE DIE CASTING, SAND CASTING OR INVESTMENT CASTING FOR INSTANCE. BY OBTAINING AND EVALUATING PROTOTYPE METAL PARTS VERY QUICKLY PRIOR TO COMMITTING TO PRODUCTION TOOLING, RISK LEVELS CAN BE SERIOUSLY REDUCED.

HIGH SPEED CNC MACHINING CAN ALSO BE A SOLUTION FOR LOW-VOLUME PRODUCTION REQUIREMENTS, IF THE PREDICTED VOLUMES DO NOT WARRANT A CAST METAL ROUTE; THIS OPTION CAN ALSO BE AN ATTRACTIVE ALTERNATIVE.



METALS WE CAN PROCESS:-

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| ALUMINIUM ALLOYS | STEELS |
| BERYLLIUM COPPER | STAINLESS STEELS |
| BRASS ALLOYS | TITANIUM ALLOYS |
| COPPER ALLOYS | ZINC |
| BRONZE ALLOYS | PRECIOUS METALS |

RAPITYPES OFFER A RANGE OF FINISHES FOR YOUR COMPONENTS INCLUDING :-

- CHROME PLATING (BRIGHT AND SATIN)
- NICKEL PLATING
- COPPER PLATING
- SILVER/GOLD PLATING
- PASSIVATING (ZINC)
- CHEMICAL BLACKING
- HEAT TREATING
- STOVE ENAMELLING
- SPRAY PAINTING
- ANODISING
- HARD ANODISING
- POLISHING
- SHOT BLASTING



OUR CNC MACHINING FACILITY OPERATES WITH DELCAM POWER MILL AND WE CAN ACCEPT CAD DATA IN .IGES, .STP, PRO-ENGINEER, RHINO, SOLIDWORKS AND CATIA V5. 2D DATA CAN BE IMPORTED AS .DXF .PDF .DWG AND RAPITYPES ALSO OFFER A FULL CAD ENGINEERING SERVICE FOR COMPONENT DESIGN AND REVERSE ENGINEERING SERVICE FROM 2D DATA, OR EVEN FROM EXISTING COMPONENTS THROUGH LASER SCANNING.

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