

# RAPITYPES

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ADVANCED MANUFACTURING SUPPORT



# INTRODUCTION

## ADVANCED MANUFACTURING SUPPORT

Rapitypes is a highly resourced new product development company offering multidisciplinary support to private commercial organisations, academic institutions and the public sector.

From initial ideas generation to the delivery of complete working systems, the company provides a wide spectrum of supporting activities to clients in automotive, marine, defence, industrial, medical, and general products.

Rapitypes serves a world wide client base with high quality products for physical testing, verification and production. Our major disciplines cover engineering design, product development, prototyping, tool-making and low-volume production, all carefully honed over many years of commercial rapid product development.

For those with limited development resources, Rapitypes can provide market intelligence, organise finance, locate manufacturing partners, and ensure compliance with standards and directives. The company also provides as part of the package, additional industrial design and electronics expertise, FEA, FMEA and production engineering capabilities.



## MEDICAL

Rapitypes has a 15 year history in the medical product development sector working with clients in pharmaceuticals, diagnostics, drug- delivery medical devices and medical equipment. Our knowledge of these disciplines extends to an in-depth understanding of the applicable regulatory requirements, typical materials specifications and development scheduling.

Rapitypes can provide multiple parts and assemblies for clinical trials or for simple look-see assessments. We have precision machine tools for mould making to close tolerances and high quality moulding facilities in-house.



## AUTOMOTIVE

With more than 15 years hands-on experience in the automotive sector Rapitypes has built a robust platform of skills in both design and engineering and in the practical delivery of A-class full-scale models, fully working prototypes and pre-production components.

Whether it's a legacy part, a suite of components for a bespoke vehicle or a regular schedule of production parts in batch volumes, Rapitypes has the facilities to deliver. We have in-house production, inspection and despatch departments for the smooth delivery of automotive components and assemblies. We are ISO 9001 accredited and moving towards TS16949.



## MARINE

Rapitypes is well respected in the automotive field but perhaps most especially for its innovative approach to tooling and construction. We are now applying this same rigour to the Marine sector. Our large scale tooling facility and extensive modelling spaces are ideally suited to the requirements of our Marine clientele. And with our large 5-axis machining capability and comprehensive finishing areas, we are beginning to make an impact on the watercraft sector.

The main difference between the Marine and Automotive industries lies in the output volume. The Marine industry works in tens of units, whereas the Automotive industry generally measures its output in thousands.



## PRODUCT

If a product is to satisfy its target customer it must intrigue and delight. But to do so it must also be fit-for-purpose and well made. Rapitypes knows what to look for and how to provide the right combination of development engineering and pre-production prototyping. We have a team of engineers and development technicians to which to assign our client's projects, and we always keep in close contact to ensure a successful outcome.

The Rapitypes' support capability is extensive and reliable, and we can even assist with product packaging, graphics and logistics.



## INDUSTRIAL

The Rapitypes' focus has always been on prototyping and production and we have a broad range of skills and facilities to offer our clients for this purpose. However, in addition to this our workshop personnel are drawn from design and production backgrounds so we fully understand the development issues facing our clients in today's marketplace.

Many of today's capital goods, especially those manufactured in Europe, fall into the high value/low volume bracket. Electronic housings and suites of machine cladding components are typical production assignments for Rapitypes, but we also provide a full assembly and testing service for complete turnkey projects as well.



## SPECIAL FX

No special effect will work convincingly without creative design, robust engineering and meticulous planning. The Rapitypes design engineering team provides the inspiration as well as the practical grunt to do just this.

Our knowledge of robust yet simple electronic systems, fabrication and quick build structures, surface cladding and decoration and complete functioning systems (for animatronics) has been gained from two decades in the rough and tumble of product development, toy design-build and special purpose machinery construction. Our 20,000 square feet of construction and assembly space can be brought to bear on a large assignment.

## DESIGN SUPPORT

2D – 3D conversion  
Clay modelling  
Reverse engineering  
Product development  
Engineering design  
Electronic design  
Virtual prototyping



## MANUFACTURING

Rapid prototyping  
Vacuum casting  
Vacuum forming  
GRP & carbon fibre  
CNC machining  
Rapid metal casting  
Metal fabrication

## PRODUCTION

PU RIM  
Rotational RIM  
Low-volume production  
Injection moulding  
Pre-production  
& production plastic parts  
Assembly  
Painting & finishing

## SUPPORT ACTIVITIES

Analytical testing  
Engineering consultancy  
Patent application & breaking  
Market research  
Financial assistance  
Engineering agency support