



CNC MILLING MACHINES MANUFACTURER FOR 3D MACHINING AND RAPID PROTOTYPING

Spécial Issue

Testimonials

Our solutions turns into references.

CRM Range

Heavy machines for all soft materials



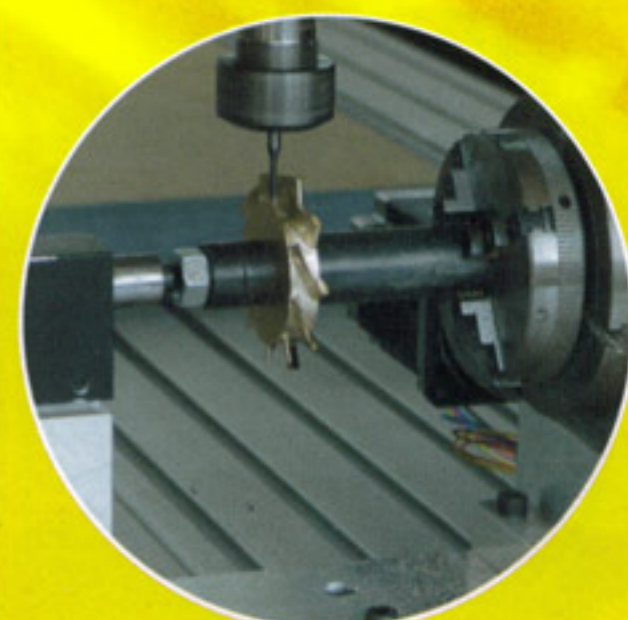
Models & Prototypes

You can rely on "Charly"



4th rotary axis

Enter a new machining dimension



SIGNAL PROD

charly4U

charly2U

CR40/1500

CRL1500

CRM



The Signal Prod company offers a range of products and services dedicated to corporate visual communication. M. Faynot selected a CR40/1500 in 2004.

What were your selection criteria when you bought the CR40/1500?

M. Faynot : I was looking for a product with integrated software, flexible and allowing the machining of both large parts and serial parts.

What is the contribution of the CR40/1500 to your daily activities?

The CR40/1500 is the embodiment of the products I design by CAD. Whether large parts such as a video terminal, or very small parts such as keyboard keys.

What do you currently do with your charly-robot?

I perform both 2D & 3D machining and cutting. For example, the production of keyboard keys for an embedded controller requires the machining of 5 surfaces in 2D and 1 surface in

spherical 3D. The machined materials are, amongst others, PMMA, PVC, aluminium, wood, etc.

What extra features would you have like to have on your CR40/1500?

At the moment, I organize my work with as few milling cutters as possible. It is for this reason that I am considering upgrading my CR40/1500 through the acquisition of a tool loader; this will allow more frequent tool changes and this during manufacturing phases.

In conclusion, what do you think of your investment?

The CR40/1500 is a satisfactory solution for my requirements, at a reasonable price for an SMC.

More details : www.signalprod.com



ONEOFF

charly4U

charly2U

CR40/1500

CRL1500

CRM



ONEOFF creates patterns, functional prototypes and models, mainly for the design and architectural industries.

The laboratory combines some extremely innovative technologies (rapid prototyping and numerical machining) with more traditional mechanical methods, available internally.

ledge of 3D CAD software packages and extensive professional experience of a broad range of trades.

ONEOFF develops its own know how in terms of material, technical and process innovations. For ONEOFF, the rapid prototyping techniques play a central role in the development of an idea.

Thus, the company decided to acquire a charlyrobot CRL1500 CNC milling machine to satisfy customers developing highly specific and very large scale projects within very short time frames: architects wishing to create architectural models or designers requiring large dimension models.

The main advantages of the CRL1500 stated by ONEOFF are the machining surface size (1500 x 1050 mm), its accuracy and its speed. The tool changer is an excellent option allowing a long machining process to be initiated without the need for continued operator presence.

Recently, ONEOFF acquired a charly2U in view of increasing its productivity. While the CRL1500 is working, the charly2U performs finishing tasks in parallel.

These two machines allow the majority of materials to

The team is made up of young professional designers, engineers and architects possessing an in-depth know-



PM RAPID PROTO



PM RAPID PROTO: modelling and prototyping workshop, creating in 1994 by M. Philippe MONOD, based on his 17 years' experience of this market.

Charlynews:

What are your company's activities?

Philippe Monod : Rapid prototyping, silicone moulds, vacuum casting, MCP - acrylic glass, programmable logic controllers, models for architecture, creation of sculptures, etc.

What led to your diversification towards prototyping?

As the architectural model market is limited, my work rapidly turned towards industrial prototypes. From the creation of my company, collaboration with the Ateliers du Nord (A. Cohen & C.I. Frossard in Lausanne) allowed me to take part in the creation of functional or style prototypes for small electrical appliances (irons and ironing units). Nearly all of the Nespresso coffee machines were created in my workshop (coffee machines, capsule development, coffee extraction system, etc.).

What is the secret of your success?

With ADN Designers, Innov3 Bureau d'ingénierie & Informatique 3D, we form a multi-expertise network of prototyping professionals. For our customers, this represents the guarantee of a finished product to present to marketing or manufacturing, in a very short period of time.

How did you start with Charlyrobot?

In 2000, following the acquisition of a CRA2, integration was very easy, despite my low level of computer expertise. The ease of use of both the machine and the charlyGRAAL 3D software allowed me to intuitively and rapidly master these two tools.

The evolution of 3D computer-assisted drawing, combined with the use of charlyrobot, allowed our network to save time and to improve the quality of products (now faultless).

And now?

In 2002-2003, I further modernized my machine pool, through the purchase of the new charly4U and charly2U models. Thanks to their steel structure and the use of CAM software more up to date in terms of ISO code, I currently produce more accurate parts and am able in particular to machine metallic parts, that I previously entrusted to sub-contractors.

What materials do you machine?

A very broad range. Mainly machinable sheet, nylon, PPMA, polyurethane resins, Epoxy, Aluminium, brass, frozen EPDM, etc.

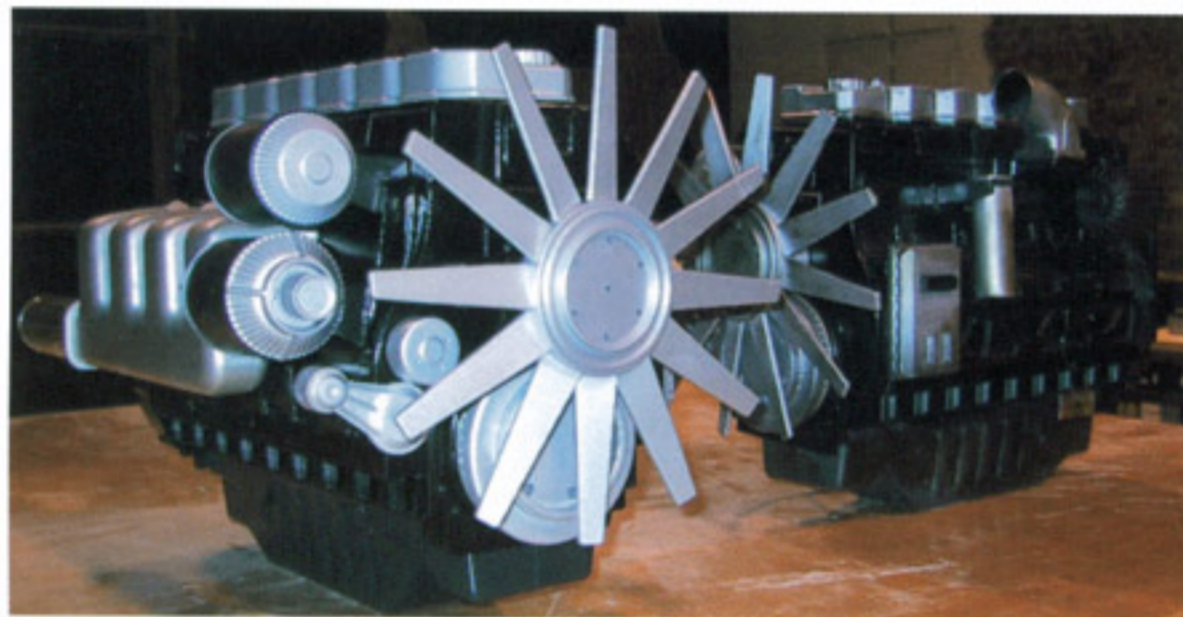
Currently, 80% of parts are made using charlyrobot in 2D or 3D + fixed 4th divider axis.

The majority of parts created with charlyrobot are then vacuum cast into silicone moulds in order to provide our customers with "real material" prototypes for the marketing or technical tests.

The company's turnover has progressed steadily since its creation. Since the acquisition, in 2000, of charlyrobot machines, it can be considered that this turnover has increased by 40% thanks to time savings, improved quality and a greater diversity of machined materials.

Your forecasts for the future?

If the economic situation becomes more favourable by the end of 2005, I would be interested by the 4 and 5-axis developments of charlyrobot products.



be machined: the most rigid with the CRL1500 and the softest with the charly2U; starting with wood, methyl methacrylate, all sorts of polyurethane resin sheets, polystyrene, etc. ONEOFF occasionally machines materials such as aluminium and steel. ONEOFF considers its charlyrobot machines as reliable, accurate and well-designed CNC milling machines.

The key to the company's successful and cutting edge use of its machines resides in the choice and use of the associated CAD software.



more details : www.oneoff.it



Models by Mr P. Monod for Nestlé, Laurastar and Muller.



For further details: www.Pmrapidproto.ws

