

What Else Can We Do...

- We would be glad to answer your questions concerning our CNC machining systems or tools at several trade fairs where we exhibit. Please ask for our trade fair schedule.
- You can test us directly and visit us. On this occasion you can bring along test files which you have created with your standard DTP or CAD software. Just see how easily they can be transformed into a processed workpiece. During the presentation we are able to answer your questions in detail and afterwards you can be sure that the machine will really be suitable for your application.
- We can also send you an individual offer for a system which will suit your needs exactly.
- First-class service will also be available after you have bought the system: an installation in your company with a competent introduction, 24 months parts warranty and a free hotline.



Interested?
Please visit our website
www.vhf.eu
or ask for our detailed catalogues.



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SO THAT EVERY- THING FITS.



**Easy operability,
technical perfection
and a fantastic price.**



CAM 2030 ACTIVE PRO



Special offer: CNC machining system
CAM 2030 Active Pro
for milling, engraving and cutting.

€ 33,300.—*

Complete system 2 x 3 metres
with vacuum table, spindle
with up to 30,000 RPM and
accessories, including
delivery and introduction.

The **Active Pro line** has the greatest positioning ranges of vhf's machine assortment. So there is practically no plate format left which cannot be processed within one working cycle and you don't have to be annoyed with fixing your workpieces more often than necessary. The presented model CAM 2030 Active Pro with its **positioning range of 2 x 3 metres** is already equipped with everything what a typical **sign making** company needs to **start working productively** right away (all details overleaf). A **vacuum table** which is integrated into the machine table ensures a highly comfortable and quick exchanging of your workpieces.

Of course, the machine can be extended. Due to its controller which can be upgraded to up to five axes, the CAM system is already prepared for the use of a **tangential cutting head**, with which you can cut soft and porous materials without burrs. With an appropriate **manufacturing software** you will have a link to any graphics software. And if you should need further **accessories** or **carbide/diamond tools** for all fields of application – no problem: you will find everything in our catalogues.

* Price without VAT.

Your Advantages

- The plate formats which are common for sign making fit exactly on the 2 x 3 metre mounting area of the **basic system CAM 2030 Active Pro**; thanks to powerful drive units materials of nearly all hardness grades can be processed reliably; the weight-saving construction of high-tensile aluminium profiles facilitates high acceleration rates.
- With high rotational speeds quickly to success: the **rotary current spindle SPC 1500** engraves and mills all materials from rigid foam to stainless steel
- Your workpieces will be fixed absolutely tight within seconds on the large **special vacuum table** – there is no more elegant way.
- Whether you mill coarsely or engrave finely, the **dust extraction unit** keeps your working room clean.
- When you work on metal, the **cooling/spraying unit** not only enables smoothly cut edges, it also increases the endurance of your tools.
- And as for any other vhf CAM system, you will also get for this system a free **delivery, installation and introduction** within Germany, Austria and Switzerland.

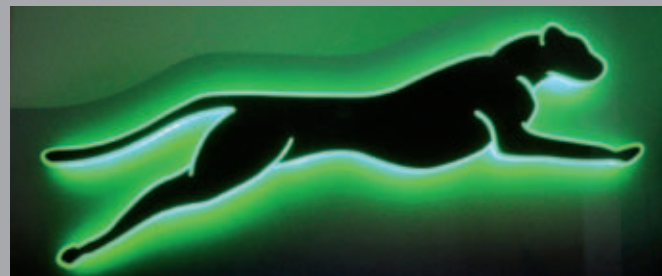
Technical Data: Complete System

Basic System

- **Basic System CAM 2030 Active Pro**
positioning range (x/y/z): 2,020 x 3,020 x 70 mm · mounting range: 2,000 x 3,000 x 100 mm · reversed rack-and-pinion drive with precise double linear guides and two sliding carriages in x and y direction · high-revving hybrid motors with gearing for x and y axis · z axis with ball screw spindles free from backlash with flanged bearings · 2 axes in y direction enable an optimum distribution of force · stable underframe as integral part of the machine
- **Controller CNC 980+**
great smoothness of running, powerful and accurate due to microstep operation · high processing speed due to exponential acceleration ramps and automatic change-over to full step mode · simultaneous interpolation of up to 5 axes, i. e. reserve for additional equipment of the system with tangential cutting head, rotary head or tailstock unit · 4 digital in- and outputs each
- **Manufacturing Computer**
computer system made of high-quality components for a stable operation · flat screen
- **Service**
free delivery, installation and introduction within Germany, Austria and Switzerland (favourable rates for deliveries beyond these countries) · 2 years warranty on all components of the system · free hotline



Precisely fitting inlay works made of different kinds of plastics.



Lighted signboard made of acrylic and plastics, back-lit with LEDs – with kind permission of Harisch Werbetechnik, Bad Emstal.

CAM 2030 Active Pro

Spindle

■ Rotary Current Spindle SPC 1500

nominal power under constant load (S1): 1,500 W · maximum power output (P_{\max}): 4,100 W · rotational speed range up to 30,000 RPM · chucking capacity 1 – 10 mm · tempered and grind sleeve shaft with several bearings guarantees high precision · suitable for fine engravings and powerful milling works

Fixing Device

■ Special Vacuum Table

2,000 x 3,000 mm table size · suction volume 576 m³/h in 4 separately switchable chambers · space-saving integration of suction units into substructure of the machine · table surface protected by vacuum fleece while milling · exchange of workpieces within seconds

Accessories

■ Dust Extraction Unit

extraction of fine particles and coarse filings · protection against contact during working process · no interference with manual tool change · optionally available with industrial vacuum cleaner

■ Cooling/Spraying Unit

fine spray, thus little consumption of coolant · regulable discharge of coolant

Do You Need Something Different?

The Active Pro line is the measure of all things for applications which demand a **large working area**. The bandwidth of **positioning ranges** already in the standard programme extends from **1 x 1 metre** up to **3 x 8 metres**.

Of course, you get this **flexibility** also regarding the choice of the **machine equipment**. The system presented here is only one possible variant which can be extended or varied. For instance, if you often work on cast acrylic, an **electronic workpiece levelling unit** may be useful. It **levels differences in the thickness** of the material in order to achieve a steady depth of the engravings everywhere on the workpiece. Or you want to reduce your setup times and use an **automatic z adjustment unit** for a **quick measurement of the workpiece surface**.

If you want to mill or cut printed workpieces precisely fitting ("Print & Cut"), the **optical workpiece recognition** is a valuable aid. Printed register marks are recognized by a camera system and the milling paths will be rotated, compressed or stretched accordingly.

However, a vhf machining system is not only suitable for chip removing tasks: Using a **tangential cutting head** you can process for instance soft or porous materials. A rotary head which can be equipped with different attachments for cutting, creasing or 45 degree diagonal cutting opens up additional possibilities.



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Print & Cut: objects which are milled out of printed rigid foam boards.