Contact us
✔ we would be glad to advise you
✔ make you an individual offer
✔ send you our catalogues
✔ show our technology at many trade fairs
✔ jointly test your application during a presentation

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CNC machines | tools

Milling machines
Milling cutters

made
in
Germany
vhf camfacture AG – competence in CNC milling machines

CNC milling machines from vhf are designed modularly. We will assemble a machine for your company which exactly meets your specifications and take into account your expectations on easy operability and variety of applications.

- **Over 25 years made in Germany, more than 1,000 machines per year**
  vhf develops and manufactures CNC milling machines, CNC controllers, control software and tools completely in Germany – everything fits together. Convinced vhf customers buy more than 1,000 milling machines every year.

- **Machine sizes from S to XXL**
  An exceptional variety of sizes is standard for vhf – in case of restricted access conditions, just use our on-site assembly service.

- **Modular design – individually configured for you**
  vhf will construct your CNC milling machine of perfectly matching system modules, suitable for your individual application. However, requirements are subject to change – no problem, thanks to its easy upgradeability.

- **Easy machine operation**
  Regardless of whether you are experienced in milling or if this issue is new to you – with a vhf portal milling machine and vhf as your partner you will quickly launch your production.

- **Free delivery and quick service**
  All machines will be delivered and installed ready to use – free of extra charges within Germany, Austria and Switzerland. On top of that our customers appreciate the comprehensive advice and the competent and personal vhf support.

- **Variety of applications meets variety of machines**
  vhf offers three model ranges which cover different kinds of applications and sizes. The inside of this leaflet shows you at a glance which model range is best for milling, drilling, engraving, chamfering, cutting or creasing your workpieces.

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**In-house production of tools**

**More than 1,000 different cutting edge geometries**
The proper tool for each kind of application; you will achieve higher rates of feed, a longer endurance and a better surface quality.

**More than 100,000 tools always on stock**
Order today – use it tomorrow: We’ll ship your ordered articles on the same day if we receive your order until 12 o’clock.

**Delivery free of shipping costs via the vhf Shop**
For your orders at shop.vhf.de.
Machines and tools for every application

**Aluminium processing**
Machining all kinds of non-ferrous metals, but also steel and stainless steel – no matter if you produce individual samples or start a serial production.

**Mould making**
With a vhf milling machine you can produce three-dimensional forms, moulds and models from a solid block – using quite different kinds of materials.

**Model making**
No matter whether you have to produce ship, train, plane or architectural models – a vhf milling machine always ensures premium quality.

**Plastics processing**
Thermoplastics, thermosetting plastics or composites – thanks to the offered machine sizes especially efficient for large format plates.

**Wood processing**
Milling contours or pockets in solid wood, multilayer plates, MDF or HDF; producing sophisticated inlay or complex relief works.

**Engraving**
Everything that has to be precisely engraved, from simple nameplates over technical parts up to sophisticatedly thinned relief works.

**Sign making**
You can produce large advertising signs, print & cut applications or shop and exhibition stand constructions – quickly, rationally and nearly without size limits.

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**Customer videos**
At our web site you’ll find many videos of reference customers who are successfully working with vhf milling machines every day.

**vhf key facts**

- Manufacturer of precise, robust and versatile milling machines and a wide range of tools, founded in 1988.
- The company is based in Ammerbuch near Stuttgart in Germany.
- vhf has more than 200 employees.
- We produce milled parts for new machines on vhf milling machines with vhf tools – the best proof for their quality and practicability. Just have a look at our Transparent Factory in the course of a machine presentation.

vhf – more than 25 years of Computer Aided Manufacturing.
Premium – for industrial machining

We have developed the Premium line especially for industrial applications. It distinguishes itself particularly by its extra stable construction and powerful drive units. And with different clamping areas on your machine you can work even more efficiently. Vacuum table, T-slot area and front clamping range next to each other – you have almost no set-up times.

✔ ✔ very smooth operation, first-class quality of the cut edges
✔ ✔ popular sizes: 1,000 x 1,000 mm, 1,000 x 2,000 mm, 1,500 x 2,500 mm, up to 2,000 x 3,000 mm
✔ ✔ repetition accuracy: ± 0.01 mm
✔ ✔ front/rear clamping range for high workpieces available
✔ ✔ machining of plastics, non-ferrous metals and wood
✔ ✔ greatest choice of equipment varieties

Single tooth cutters
an impressive choice with more than 250 different geometries · especially suitable for plastics, non-ferrous metals and wood – also with left-hand twist

Double tooth cutters
more than 150 tools for materials of medium hardness · also available as radius cutters (see image) and torus cutters for mould making

Triple tooth cutters
different kinds of universal tools · for an especially efficient machining also as extra long types for foam and extra short types for stainless steel

Four tooth cutters
for working on tempered steel, cast and other sorts of materials which are difficult to machine · always with hard coating
Active Pro – XXL plate processing

Due to its price-performance ratio, the Active Pro line fascinates especially sign makers and shop or exhibition stand constructors as well as industrial customers who want to quickly machine large-format plates – no matter whether they are of Dibond®, acrylic, aluminium, Forex®, wood, ... Our bestseller: 2 x 3 meters.

- the quick and flexible all-rounder
- special vacuum table integrated in machine table
- popular sizes: 1,500 x 2,000 mm, 2,000 x 3,000 mm, 2,000 x 4,000 mm, up to 3,000 x 8,000 mm
- repetition accuracy: ± 0.05 mm
- optionally with CCD camera for register mark recognition
- optionally with additional multi unit for straight cuts, V cuts, and creasing works

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Composite cutters
for highly abrasive materials like GRP/CRP or honeycomb plates · different types with cross cut, diamond or spiral toothing

Deburring tools
for deburring, countersinking, chamfering and edge-working of non-ferrous metals and plastics · with top angles of 60, 90 and 120 degrees

Engraving tools
gravers and engraver’s milling cutters with a wide range of sizes and top angles · balanced by default from 6 mm shank diameter on (see image)

Router bits
different types for chamfering and milling slots, characters or radii, edges and surfaces · for working on wood, plastics and aluminium composites

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✔✔ optionally with additional multi unit for straight cuts, V cuts, and creasing works
Classic – compact professional use

Our established Classic line covers the smaller positioning ranges. Like all vhf milling machines, it is ideally suited for milling, drilling, chamfering, thread milling and engraving. A popular equipment is a high frequency spindle for working especially efficiently with high rotational speeds and smaller tools.

✔ fine engraving and milling works in plastics, non-ferrous metals and wood
✔ popular sizes: 500 x 500 mm, 500 x 750 mm
✔ repetition accuracy: ± 0.01 mm
✔ high rigidity and little weight
✔ our classic: successfully on the market since 1992 – and permanently enhanced

Thread cutters
thread whirling cutters (see image) and circular thread cutters; the latter drill the core hole and cut the thread in the same working cycle

Lances and knives
different types with up to 70 mm cutting edge length · for the usage in different kinds of cutting heads

Drills
for plastics, non-ferrous metals, printed circuit boards or thermosetting plastics and thermoplastics · with cooling also for steel and ferrous metals

Diamond tools
single and double tooth cutters of CVD and PCD with especially high endurance · PCD and MCD polishing tools for acrylic glass

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