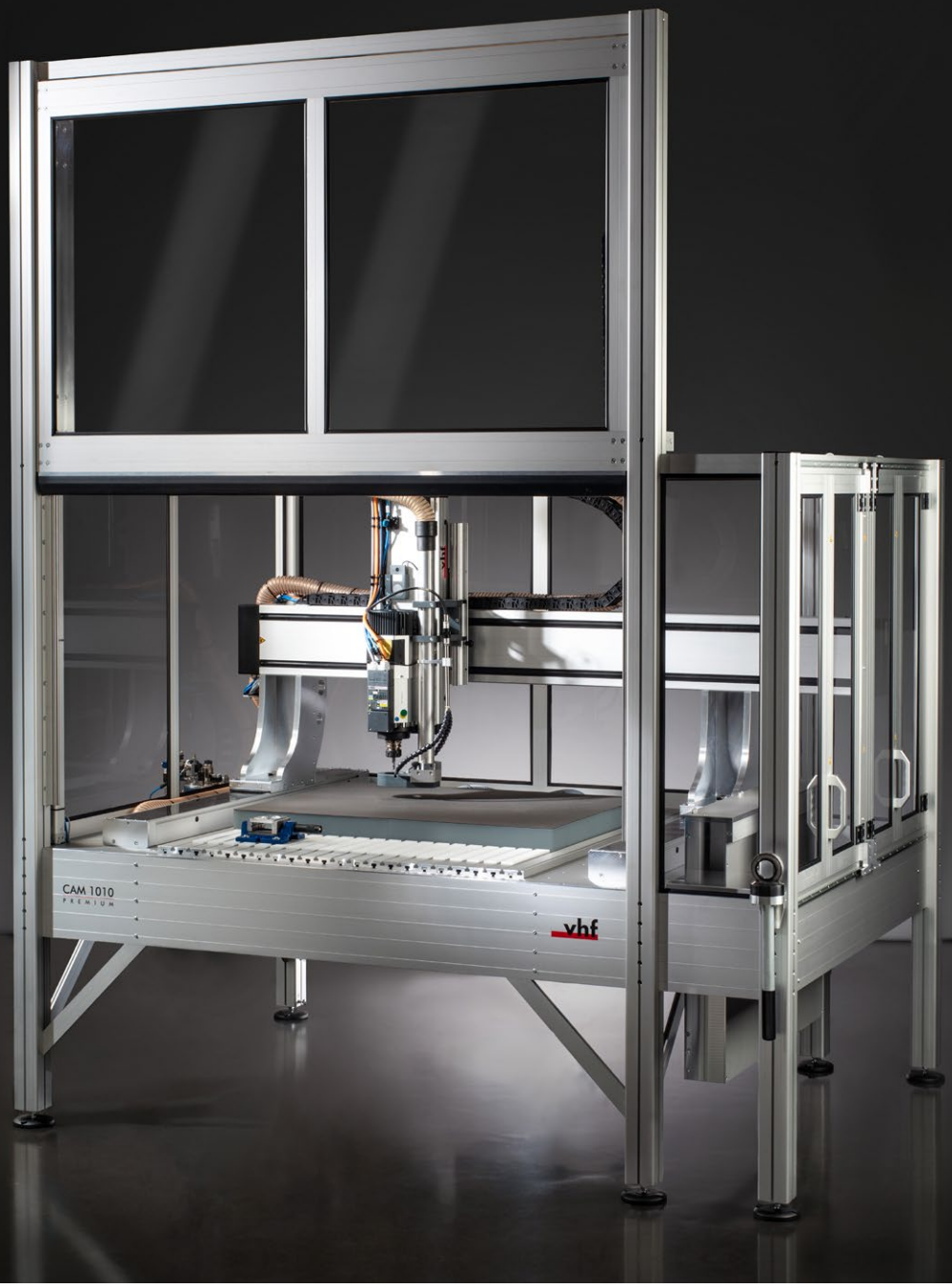
AT HOME IN INDUSTRY – ROBUST AND PRECISE.

The CNC milling machine Premium.



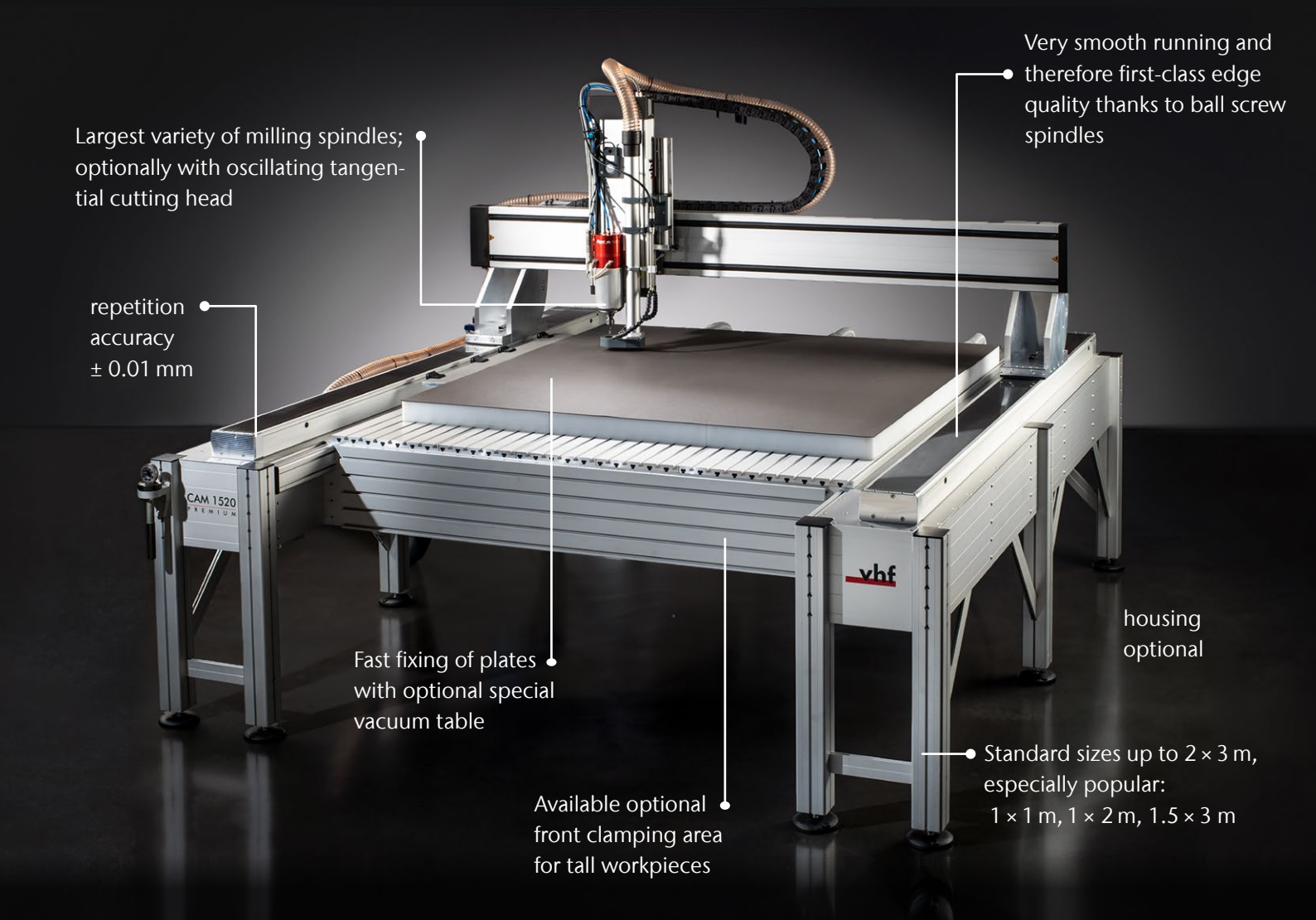
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CREATING PERFECTION

THE PREMIUM – YOUR MODULAR ALL-ROUNDER

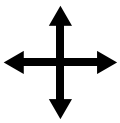
Our milling machines from the Premium series inspire users from all industries in which CNC milling technology is used. Plates, profiles or housings in a wide range of sizes and materials – with your Premium you are extremely flexible. The options for workpiece fixing are particularly wide-spread: Your set up times are significantly reduced with various holding options like vacuum technology, T-slot clamping fixtures, or the front clamping area for taller objects.

Thanks to our modular concept, you decide! Your machine will be customized with the components that you need. However, if your requirements should change, many retrofits are possible. A possible optional feature would be to add a cutting head to the machine that can be alternately used with the milling spindle. And thanks to the flexible safety concept, you can equip your machine with a laser scanner or a housing – just as your production conditions require. We would be happy to advise you individually on your options.

You can find more information and a configurator online:
vhf.com/premium-configurator



FEATURES AND BENEFITS? LOTS OF THEM!



Flexibility thanks to modularity

According to your requirements, your Premium is built from perfectly matching components in steps of 0.5 meters with positioning ranges from 1.0 × 0.5 m up to 2 × 3 m. It also offers you the widest range of equipment variants, such as different clearance heights, workpiece fixing options, milling spindles, etc.



Whatever you need, your Premium can do it

Whether you are processing non-ferrous metals such as aluminum or aluminum composites, all plastics such as acrylic, foams, soft and hard rubber as well as wood and cardboard or similar – Premium CNC machines do not stop at any common material. And every application becomes incredibly easy for you.



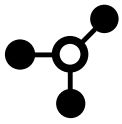
Particularly short set-up times

T-slot area, vacuum table and front clamping area next to each other shorten your set-up times. Whether you are processing plates, profiles or housings – you can work even more efficiently in all industries where CNC milling technology is used.



Many retrofittable components

Thanks to its modular design, you can also retrofit your Premium with further modules at a later time if required.



Everything from one source

Machine, software, milling tools, delivery and service – all comes from vhf and is made in Germany. Everything is perfectly matching for your perfect work result.



Delivery service with competent instruction

Our vhf delivery and installation service includes free delivery, setup and commissioning in Germany, Austria and Switzerland. We offer comprehensive and competent instruction in both the machine and the software. For other countries, we will be happy to provide you with individual rates on request.



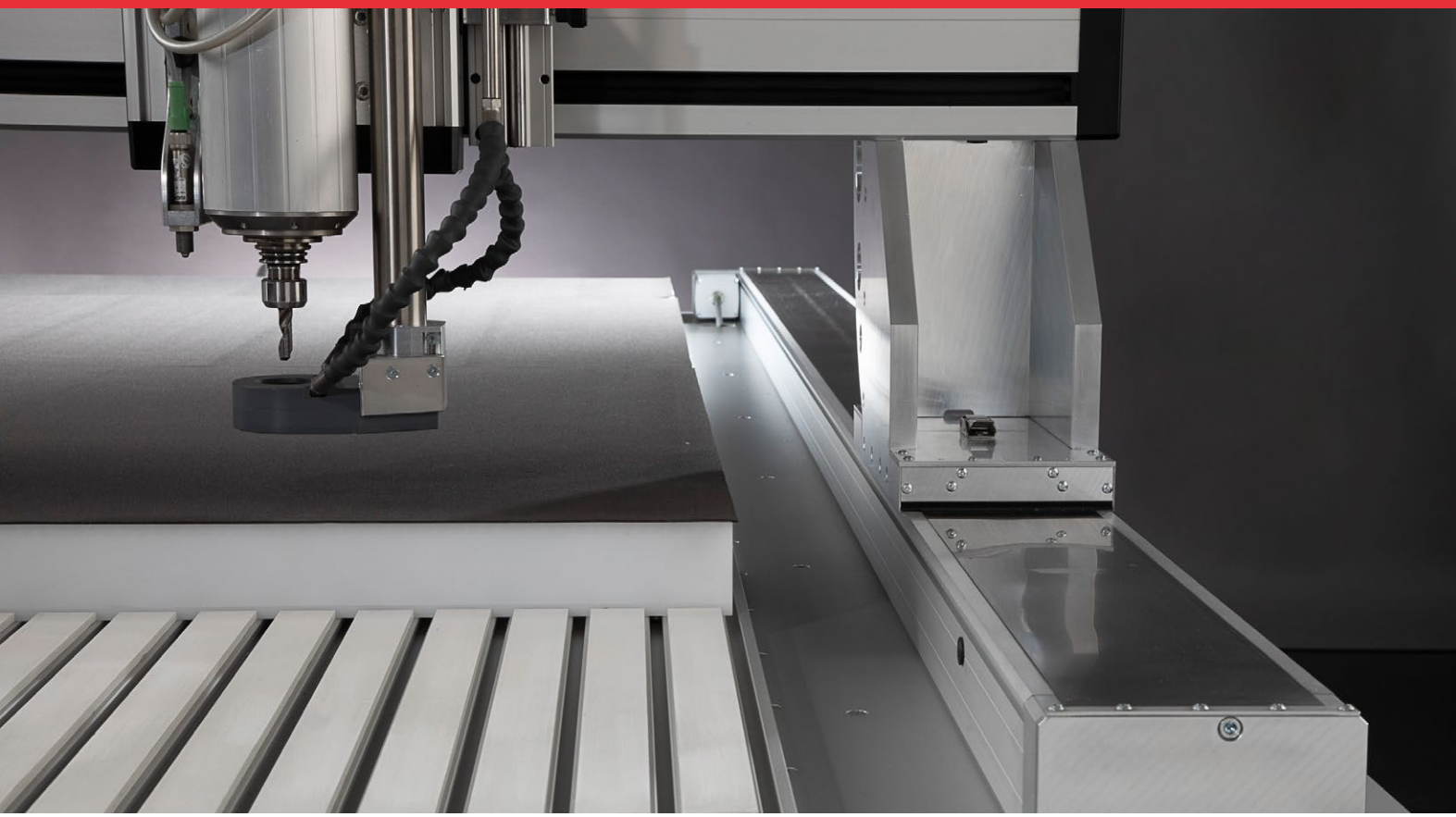
On-site assembly possible

Constricted access conditions? No problem! Use our on-site assembly service. We deliver your machine unassembled and our service technicians assemble it professionally at your installation site.



Free support hotline

You have questions about your machine or need technical support? Our vhf experts advise and support you in every phase of your production process.



TECHNICAL DATA

BASIC SYSTEM	
Mounting area	flexibly selectable in steps of 500 mm from 1,050 × 510 mm – 2,050 × 3,010 mm
Z axis lift	flexibly selectable between 190 mm, 290 mm, 390 mm and 490 mm
Construction	high-strength aluminum panel profiles solid T-slot table (thickness: 20 mm)
Drives	precise double linear guides made of steel with chip protection 2 drives in Y-direction ball screw spindles with flanged bearings
Repetition accuracy	± 0.01 mm
Positioning speed	140 mm/s X/Y axis

EQUIPMENT OPTIONS	
Milling spindle	different spindles selectable, e.g. water-cooled rotary current spindle up to 40,000 rpm, S1 = 2,300 W, P_{max} = 3,500 W, WK-19 interface, clamping range up to 10 mm shank diameter, sealing air
Automatic tool changer	4-fold, 9-fold or 14-fold cone changer (depending on machine size)
Suction unit	reliable chip removal when milling plastics, wood and metal
Tool cooling	electronically controlled minimum quantity lubrication system, or simple cooling and spraying device
Cutting units	oscillating tangential cutting head with quick-change device
Workpiece fixation	individual clamping devices for the T-slot table vacuum table for workpiece changes in seconds thanks to suction units integrated into the machine table with individually switchable zones front clamping area for processing tall workpieces
Workpiece height measurement	automatic Z-adjustment and compensation of material thickness tolerances by workpiece leveling
Register mark recognition	recognition of register marks and automatic correction of milling and cutting paths
Bridge reinforcement	support of the X-axis by solid U-beam to optimize machine rigidity
Safety	housings in various designs; barrier-free safety area thanks to laser scanner; monitored suction shoe



Our Premium makes production much easier and expands our possibilities enormously. We still have a lot of plans for it. Big praise also to the support team!

Önder Coskun
SCHMITT - Kreiselpumpen GmbH & Co. KG



CREATING PERFECTION – For more than 35 years, vhf has been developing and manufacturing first-class CNC milling machines, CAM software and tools of the highest quality at its headquarters in Ammerbuch near Stuttgart. Here, the art of engineering Made in Germany is combined with decades of experience and passion for milling and cutting. The vhf group employs about 350 people worldwide.



ALWAYS PERFECTLY ADVISED.

Personal advice is a matter of course for us. We will be pleased to configure your vhf machine individually to suit your needs and applications.

WE ARE RIGHT HERE FOR YOU!

Your are welcome to visit us for a product demonstration in our modern showroom. There, we will process your materials according to your specifications and are on hand to provide you with personal advice.

You can also experience our technologies live in action during an individual online demonstration and ask us your questions – wherever you are.

GET IN TOUCH.

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as of: 08/2024

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