

## vhf Presents Innovative CNC Milling Machine in Futuristic Design

### **Milling and Cutting Redefined: The vhf X**

**Ammerbuch, Sept. 18, 2018:** During the AMB trade fair in Stuttgart, vhf, one of the leading suppliers of flatbed milling machines, presented its latest flagship product: the X. The new CNC milling machine for plate processing optimally combines precision, drive power and stability. The company, which is celebrating its 30th anniversary this fall, has equipped the machine with numerous standard extras.

The X offers both innovative technology made in Germany and intuitive operational convenience. vhf is particularly proud of the specially developed, pressed and anodized aluminum profiles that give the machine extreme rigidity. Their internal X-shaped structure is where the X gets its name. Together with massive machine castings especially quiet operations are ensured. Compared to steel designs, this Xstructure in combination with a robust construction offers maximum load-bearing capacity at a significantly lower weight which results in traverse speeds of about 30 m/min. Many parts of the X's cutting-edge technology are also integrated into the Xstructure of these profiles to save space.

The vhf X uses innovative drives: three axes are driven by three motors at a time and an intelligent gear design which guarantees precise propulsion and excellent milling results. With a processing spindle that reaches 5,8 kW peak power and spindle speeds of up to 40,000 rpm, the X can mill numerous materials, including aluminum, plastic, wood and even stainless steel sheet. However, the X is capable of more than just milling. On request, an optionally integrable cutting and creasing unit with switchable lance oscillation can process soft materials such as cardboard and seal material. This means that V-cuts, kiss-cuts and creasing operations can be performed reliably and without retooling.

The extensive equipment offers several advantages for users: The newly developed Xhead, the processing head of the machine, contains the milling spindle, the cutting and creasing unit, a suction unit with simultaneous minimum quantity lubrication, as well as a workpiece leveling unit and a built-in camera. This integrated camera, for example, makes it possible to find and work the workpiece zero point precisely and conveniently. Optionally, the X can also be equipped with an optical register mark recognition system for printed workpieces, so that contours can be milled or cut precisely along the marks. The electronic workpiece leveling system enables the user to achieve perfect engraving and chamfering across the entire 2 x 3 meter machining area, even with material thickness tolerances. The stylish and prominently placed status display on the Xhead informs the user about the machine status via an RGB LED.

The safety laser scanner and the usual vacuum technology for plate processing are also already integrated in the machine. Users benefit from considerable space savings and the convenient operation controls typical of vhf. The eight suction units integrated in the machine table intelligently control the separate vacuum zones and offer an impressive 1,325 m<sup>3</sup>/h volume flow for maximum holding power even at highly free milled operations. The retractable tool changer can hold up to 24 tools. The ability to flexibly and quickly change all milling, cutting and creasing tools is incredibly convenient, time-saving and does not require any manual user intervention. With the development of the X, vhf is also breaking new ground digitally: The system can be operated via tablet – enabling future-oriented and intuitive controls.

vhf CEO Frank Benzinger is convinced of the new machine: “The X stands out with its versatility and numerous features that make working with it particularly easy. In addition, vhf is an absolute pioneer in terms of user-friendliness – allowing the X to be controlled conveniently and intuitively via a tablet.” Customers are also in the best hands when it comes to service, as Frank Benzinger explains: “Users receive everything from a single source and benefit from outstanding service and decades of expertise.”

## Images



*Strong, versatile, fast – the vhf X.*

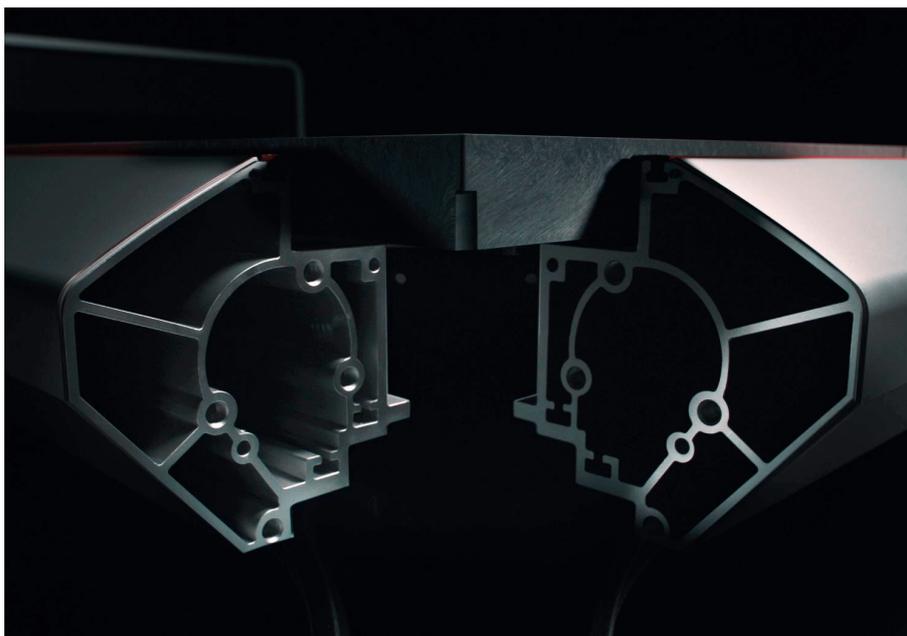


*The Xhead houses the processing units, camera and workpiece leveling system as well as a suction unit with minimum quantity lubrication.*

## Images



*All of the usual materials can be processed quickly and easily with the X.*



*The stable design ensures high rigidity.*

## Images



*vhf CEO Frank Benzinger.*

**About vhf camufacture AG:**

Founded in 1988, vhf camufacture AG is a leading manufacturer of CNC milling machines, milling tools and CAM software for the dental sector, industry and sign making. Headquartered in Ammerbuch, 30 kilometers southwest of Stuttgart, vhf employs more than 220 people and is constantly expanding.

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