

## **New Dental CNC Milling Systems:**

### **Extremely Compact and Highly Precise**

**vhf camufacture AG presents two new micro-machining systems of the Impression line which distinguish themselves by very compact dimensions: CAM 4-K1 and CAM 4-K2. Both systems have been developed especially for the requirements of the dental technology so that crown and bridge frameworks with up to fourteen units as well as inlays, onlays, abutments and veneers can be milled comfortably and precisely.**

With their universally applicable CAM 4-02 Impression, vhf has already gained experience in the dental sector for years. However, this system is additionally suitable for jewellery making and industrial micro-machining. Building on these foundations, vhf has newly constructed the models CAM 4-K1 and CAM 4-K2 Impression especially for the requirements of dental technology. The main focus of the development has been put on a consistent concentration on the essentials. Most obvious is the extremely compact design which can roughly be compared with a laser printer (footprint 400 x 385 mm). Upon closer examination, the uncompromisingly rigid construction of the new vhf system leaps to the eye as well as the high-quality components which are installed: Just two examples for this are the Jäger high frequency spindle and the Harmonic-Drive rotary axis. So it is ensured that all common materials like wax, PMMA, zirconium oxide and nanocomposites can be machined in first-class quality.

Due to the focus on dental technology, some features – compared with CAM 4-02 Impression – which are not absolutely necessary could be omitted: for instance the pneumatic collet chuck for exchanging the workpiece. However, in order to exchange a blank, the fixing device will be

automatically moved to the front of the machining area so that this can be done quickly and comfortably. Using CAM 4-K1 Impression, the tools will be exchanged within seconds due to a convenient quick chucking device.

If the user wants to avoid such a manual intervention, the model CAM 4-K2 Impression is recommended. It is equipped with a high frequency spindle with pneumatic collet chuck and an automatic tool changer with six receptacles.

Part of the scope of the delivery is the software DentalCAM which has been developed by vhf, too. It imports the previously modeled CAD data in STL format and processes it for the output with numerous assisting features. However, on request the system is also available without DentalCAM so that an external CAM software can be used. The output of the data will then be performed by the provided control software.

Thanks to a very reasonable price, it becomes cost-efficient for every dental or practice laboratory to switch to computer-aided manufacturing. For bigger dental laboratories or milling centres it can be advantageous to operate a machine park of several small systems. In opposite to considerably more expensive systems with automatic workpiece feeding, a significantly higher production volume can be achieved for a comparable amount to be invested due to a real parallel processing of the blanks.

*Jörn Vogt M. A.*

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## Photos

You can download these images directly from our press section in the internet with a resolution of 300 dpi:

[www.vhf.eu/binaries/CAM4-K1\\_geschlossen.jpg](http://www.vhf.eu/binaries/CAM4-K1_geschlossen.jpg)



*Four-axis CNC micro-machining system CAM 4-K1 Impression for dental technology: With minimal outer dimensions of approximately 400 x 385 x 410 mm (W x D x H) it has a positioning range of 100 x 100 x 40 mm (x/y/z) which is adapted to the common universal blanks.*

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[www.vhf.eu/binaries/CAM4-K1\\_Detail.jpg](http://www.vhf.eu/binaries/CAM4-K1_Detail.jpg)



*Detail view of the machining area of a CAM 4-K1 Impression: a high frequency spindle with quick chucking device and the highly precise Harmonic-Drive rotary axis with fixing device for universal blanks.*

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[www.vhf.eu/binaries/CAM4-K2\\_Wzg-Wechsel.jpg](http://www.vhf.eu/binaries/CAM4-K2_Wzg-Wechsel.jpg)



*For a high grade of automatisisation: the model variant CAM 4-K2 Impression has an automatic tool changer with six receptacles. Its placement directly in the fixing device ensures short positioning ways and thus quick tool exchange times.*