

KaVo Everest® CAD/CAM System

# KaVo Everest® – highest precision.



KaVo. Dental Excellence.



# KaVo Everest® CAD/CAM System – highest precision.

## KaVo ARCTICA® AutoScan

The multi-talent among scanners.

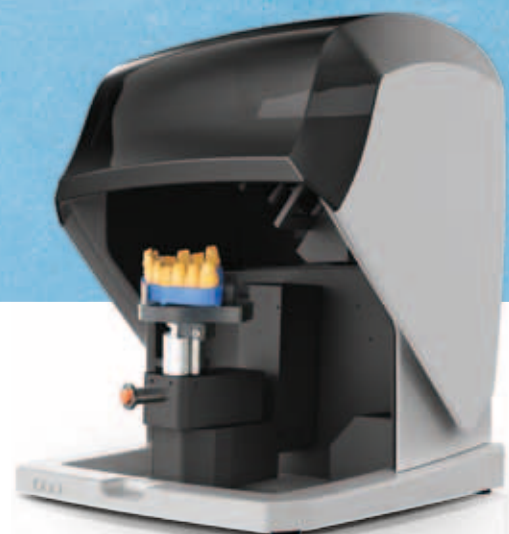
- A fully automatic desktop scanner
- Very large measuring field
- Striped light projection
- Generates open STL data
- Connection to the KaVo multiCAD virtual articulator
- Blue filter
- Great price/performance ratio



## KaVo ARCTICA® Scan

Semi-automatic desktop scanner – Impressively versatile and convincingly safe.

- **Convincingly simple**, thanks to the manual setting of scanning angle and live image display
- **Outstanding flexibility**, with an open STL database. This can be loaded into commercial, open and dental CAD software packages.
- **Impressively precise**, even with complex geometries thanks to striped light projection



## KaVo multiCAD® Software

Step by step – quite simply and safely.

- **Intuitive, user-friendly screen design and step-by-step wizard**, for easy and safe design
- **Versatile because it is completely compatible** with STL data of commercial, open scanners
- **Very fast** thanks to maximum use of the predefined computer performance

Developed in cooperation with  
**exocad**



## KaVo Everest® elements

Outstanding materials versatility.

- **KaVo Everest elements offer a large selection of materials** – from titanium, zirconium and glass ceramics all the way to plastics. Thus you can flexibly respond to restoration demands and customer wishes, at any time.
- Large variety thanks to a comprehensive range of materials for a larger number of indication options
- Higher future security thanks to a 6-year warranty and cooperation with renowned materials manufacturers.
- Outstanding quality and environmentally friendly production in compliance with biological criteria.



## KaVo Everest® engine

**NEW** KaVo Everest CAM² – setting new benchmarks.

- **Increased cost-effectiveness**: gripping yoke holding up to 8 ARCTICA blocks
- **Faster**: reduced milling times and no need to use embedding method
- **Increased precision**: better results with broader indications
- **Increased flexibility**: wide material versatility in the standard version, optional use of other suppliers' materials



## KaVo Everest® therm

Effective and energy conserving sintering.

- Large energy savings thanks to even internal heat distribution and minimal heat loss to the ambient room
- Automatic sintering
- Easy programming
- High process safety



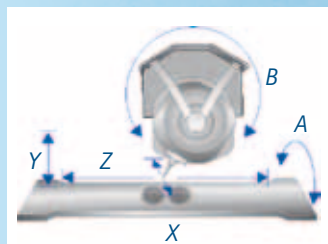


# Precision knows no compromise.

## Machining centre with 5-axis technology.

The Everest engine uses pioneering 5-axis milling and grinding technology. With its extremely compact concepts, especially developed for the dental laboratory, the Everest engine offers a minor revolution in performance: long travel paths with large operating angles allow effortless complete machining of even the most geometrically demanding designs with undercuts. Equipped with a dual tool spindle, swivel gripping yoke and simultaneous control by high-output CNC software, this high-tech engine has a wide range of applications and offers maximum productivity and quality.

The five X, Y, Z, A and B axes offer particularly long reaches and large angles of motion for maximum possible variety and precision for your machining processes.



*Precise: the milling motions along the five axes, X, Y, Z, A and B allow exact work in critical areas and even in areas with undercuts.*

## Solidly built – Made in Germany.

### The machining portal:

- Solid U body of polymerised concrete with vibration-dampening, noise-reducing and dimensionally stable properties
- Vertically opening front flap for easy access to the machining cell
- Fully encapsulated machining cell with closed coolant and lubricant circulation
- Integrated recovery of liquid medium with solids separator
- Low-noise and low-emission operation with low maintenance requirements

## Technical Specifications:

- ✱ x-axis: 250 mm
- ✱ y-axis 100 mm
- ✱ z-axis 70 mm
- ✱ a-workpiece rotation: 360°
- ✱ b-tool swivel range: 240°
- ✱ Spindle speed depending on material between 5,000 und 80000 rpm
- ✱ Tool holder with high precision Weldon quick-clamping system

**Dimensions:** 890 x 1,432 x 1,040 mm (WxHxD)

✱ **Useful depth:** 835 mm

✱ **Weight:** 280 kg

✱ **Compressed air connection:**  
6 bar (+/- 0.5 bar), 60 NL/min

✱ **Mains voltage:**  
100/120/130 V at 50/60 Hz

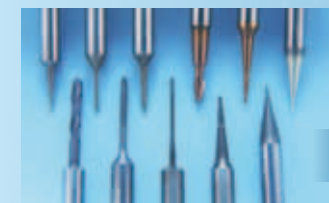
✱ **dB (A):** < 80  
(measured with a titanium milling job, at a distance of 1 m)



# The correct tool for each material.

## Milling /grinding tools.

- Milling and grinding tools specifically developed for KaVo materials:
  - Reinforced 6 mm shaft for highest stability and vibration dampening
  - Milling bit geometries specifically for special coatings for long service life and durability



*Tool overview  
Everest CAM<sup>2</sup>*

**NEW**

## Tool overview:

- ✱ Zirconium soft
  - Everest® CAM<sup>2</sup> Milling Pin ZS 2
  - Everest® Milling Pin ZS 1 long
  - Everest® CAM<sup>2</sup> Milling Pin ZS 0.6 (optional)
- ✱ Titan/CAMselect (NEM)
  - Everest® Milling Pin 3
  - Everest® Milling Pin 1
  - Everest® CAM<sup>2</sup> Milling Pin D0.6 (optional)
- ✱ C-Temp
  - Everest® Milling Pin ZS 3 long
  - Everest® Milling Pin ZS 1
- ✱ C-Cast/VITA CAD-Temp
  - Everest® Milling Pin ZS 1 long
  - Everest® CAM<sup>2</sup> Milling Pin ZS 2
- ✱ Glass Ceramics (e.max, VITABLOCS)
  - Everest® CAM<sup>2</sup> Grinding Pin 1.3
  - Everest® CAM<sup>2</sup> Grinding Pin 1
  - Everest® CAM<sup>2</sup> Grinding Pin 0.6 (optional)



*Optimised use of disks and new indications illustrated through the example of titanium disk.*



# Maximum material versatility for your KaVo Everest® CAD/CAM System.

## The KaVo Everest® disk strategy.

The use of KaVo Everest elements, offers an even wider range of machining options: disks are especially suited for work with large sizes in titanium, ZS, C-Temp or CAMselect (NEM).

Up to 25 units can be fabricated from one disk. This makes a highly economical overnight production in your in-house laboratory possible. Retention bars are used for working with disks. The bars are pre-cut after grinding and can be removed with minimal manual effort.

Disks significantly increase material efficiency because they can be machined for optimum material usage. Your KaVo Everest system "remembers" the data of each processed disk as well as its remaining available material.

This information is saved on a RFID chip and can be retrieved the next time the work piece is inserted. Disks on which work has already been done can be accessed for pending jobs for optimum use of the available material. At the same time, work is seamlessly documented and a consistent high level of material quality is insured.

## Die KaVo Everest® blanks strategy. NEW

The new gripping yoke allows you to machine ARCTICA blocks (with block holder 1) on your Everest engine. Select, among others, from materials of our cooperation partners VITA Zahnfabrik and Ivoclar.

There is an option to machine materials of third parties by obtaining a materials upgrade dongle. This provides you with maximum flexibility and full versatility for the future.



Gripping yoke for up to 8 ARCTICA blocks.



Everest CAM² allows processing of ARCTICA blocks with block holder 1 in the Everest engine.

## Material variety at the highest level.

Preferred materials and preferred alternatives are offered for every indication to meet the individual needs of the patient. The KaVo CAD/CAM materials range offers freedom to select the best customised dental solution at the highest level of quality with every type of material depending on functional requirements, aesthetic requirements and financial restrictions.



**Disks:**  
KaVo ZS, KaVo Titan, KaVo C-Cast, KaVo C-Temp, KaVo CAMselect, VITA CAD-Temp monoColor



**Blanks with ARCTICA holder:**  
VITA CAD-Temp monoColor, VITA CAD-Temp multiColor, VITA Mark II, VITA TriLux, VITA Reallife, Ivoclar IPS e.max CAD

## All of the information and full control of the tools and materials.

The closed machine variant, offers automatic materials management via integrated RFID technology: an essential factor for smooth processes and safe results. Scanning in once is sufficient – and you always have a complete overview of your materials and save time in inventory management.

- You always have up-to-date information on the status of materials and tools. The quality of the restorations is always ensured and production delays are avoided.
- Simply inquire about the wear and tear on the tools scanned. You are immediately informed by means of the simple, traffic light colour-coding. Moreover, automatic machine and tool checks before each processing step, prevent working with broken tools.

## Overview of KaVo Everest:

	ZS		VITABLOCS TriLux
	Titanium		VITABLOCS Reallife
	C-Cast		VITABLOCS Mark II
	C-Temp		VITA CAD-Temp monoColor
	CAMselect		VITA CAD-Temp multiColor
	Ivoclar Vivadent IPS e.max CAD		



Gripping yokes for 2 disks, up to 50 units



Best suited for jobs with long reaches – the Everest disk strategy.





# KaVo Everest® Portal – your network for even greater flexibility.

## An interactive exchange platform for ARCTICA and Everest users.

By using the Everest Portal, Everest and ARCTICA cutting laboratories can offer free capacities and so utilise their KaVo CAD/CAM System optimally. Through free choice of cutting labs, the software offers an optimal fabrication solution for scan laboratories. Via the Everest Portal you can transmit your design data fast and secure.

The Everest Portal offers expanded network functionality, utilisation of KaVo's versatile CAD/CAM systems and connects Everest and ARCTICA users worldwide.

- Let KaVo's Everest Portal inform you about all registered milling partners with free capacities and select an appropriate partner.
- Enter your free excess capacity into KaVo's Everest Portal and place orders for restorations by simply sending the data to Everest and ARCTICA laboratory partners.
- Accept orders of other ARCTICA and Everest partners and optimally utilise your own capacities.
- Transmission of design data is always safe and smooth through KaVo's Everest Portal hosted on a KaVo server. Invoicing and payments are handled directly between the milling and scanning laboratories, without any complications.



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