

Providing Every Unique In Dentistry

riton[®]

vhf
CREATING PERFECTION



Aidite[®]



SHINING 3D[®]

CENDRES⁺
MÉTAUX



SCANTIST 3D
DENTAL SCAN-SPRAY

mihm**vogt**

Point Implant

VOP
DENTAL EQUIPMENT MANUFACTURING



Smart Implant Solutions



AMMDENT



Pro Dent
Your Best Choice

ASIGA[®]



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vhf
CREATING PERFECTION

Mill

Dry

4
Axis

100,000
RPM

7
Tools



FEATURES

- + Maximum precision
- + Restorations in ultra HD
- + High-quality spindle with 4-point bearing for maximum concentricity accuracy
- + 5 microns repetition accuracy
- + High rotational speeds of up to 60,000 RPM
- + Automatic axis calibration

Powerful construction

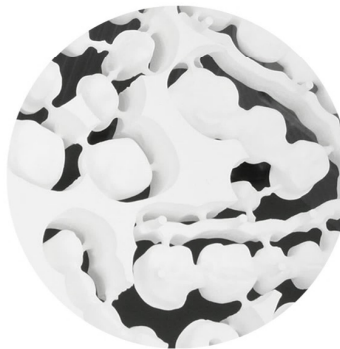
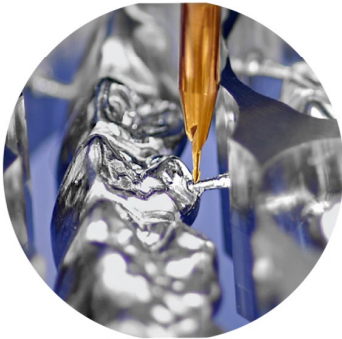
- + Processes zirconia, composites and plastics as well as CoC
- + An uncompromisingly robust build with extremely compact dimensions
- + Four axes working simultaneously for high indication diversity

Complete Independence

- + Almost unlimited availability of materials in 98 mm disc format, up to a thickness of 25 mm; no restrictions in terms of the material manufacturer

High Reliability

- + 100% developed and manufactured in Germany
- + Tactile measuring pin for use of diamond tools
- + Thousands of machines in use world-wide





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ALBAWABA ALELMEYA
بوابتك الى العالم الرقمي
YOUR GATE TO DIGITAL WORLD



High Quality
Made In Germany

vhf
CREATING PERFECTION

60,000
RPM

Dry

5
Axes

16
Tools

Key Features

- ✦ Dry machining
- ✦ 5 axis
- ✦ Dimensions (W/D/H): approx. 400 x 385 x 410 mm
- ✦ Weight : approx. 45 kg
- ✦ Fixing device for round universal blanks with a diameter of 98.5 mm with step and a thickness of 10 to 25 mm & upto 40 mm in **K5** machine
- ✦ Manual blank change
- ✦ Automatic tool changer for 16 tools
- ✦ ANSI/UL 61010-1 certification for exports to the USA and Canada

Processable Material

✦ PMMA ✦ ZrO₂ ✦ Composites ✦ CoCr ✦ Wax

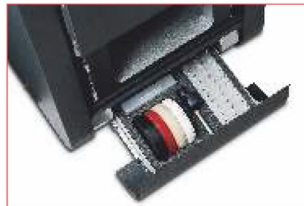


K5 Detail

The B axis of K5 Impression can be rotated by up to ± 35 degrees thus you can machine also extraordinary complicated undercuts.



K5 40 mm Black



K5 Drawer Accessories

The accessory drawer holds your blanks and mounting tools. The milling tools in the tool board will be administrated by DentalCAM.



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THE GLOBAL BESTSELLER WITH EVEN MORE FEATURES K5 +



Unparalleled precision

- Restorations in ultra HD
- Premium spindle with 4-fold hybrid ceramic ball bearings for highest running accuracy
- 3 microns repetition accuracy



Powerful and robust

- Mills the toughest materials on the market, incl. CoCr
- Powerful 500 watt spindle and 60,000 rpm
- Heavy industrial quality for maximum stiffness
- Solid cast body for the lowest vibrations



Maximum independence

- Unlimited material accessibility in 98 mm disc format
- separate block and prefab abutment holders available
- Covers the broadest range of indications, due to rotation angle in the 5th axis, and up to 40 mm 35° blanks



Proven German reliability

- engineered and manufactured in Germany 100%
- Sophisticated sealing air concept to protect mechanics, electronics, and spindle
- Webcam for remote support
- Ethernet for stable long-range connection
- Worry-free 24-month warranty



Extremely economical

- Ionizer and improved air circulation for easy machine cleaning
- DirectDiscTechnology for revolutionary disc clamping
- Automatic changer for 16 tools
- Perfectly matched DentalCAM software included in price



IONIZER

16
Tools

Technique
DirectDisk

5
Axes



zircon
Vitalium
St.. M. P
PMMA

Design
solid
resistant
to vibrate

60,000
RPM

TOOLS AND SOFTWARE

vhf precision tools

- Grinding and milling tools with sophisticated cutting geometries
- For machining all material classes: wax, PMMA, zirconium oxide, composites, titanium, cobalt-chrome, and glass-ceramics
- First-class service life, best quality and attractive prices

vhf DentalCAM 7

- High-performance software package with open STL import for all common CAD programs
- Optimized CAM strategies for the fastest possible machining
- Perfectly adapted for all vhf dental milling machines – for predictable first-rate results



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60,000
RPM

3
Blocks

4
Axes

8
Tools

Features

- ✦ Exceptional precision
- ✦ Restorations in ultra HD
- ✦ Premium spindle with 4-fold hybrid ceramic ball bearings for maximum running smoothness
- ✦ 3 microns repetition accuracy

Sophisticated Design

- ✦ Eight fluid nozzles for even tool cooling
- ✦ High speeds up to 60,000 RPM
- ✦ Heavy industrial quality

Absolute Independence

- ✦ 30 block materials from 12 manufacturers - and rising
- ✦ >140 titanium and CoCr prefabricated abutments from 11 manufacturers
- ✦ Ideal for the laboratory and the practice lab

Validated results

- ✦ Researchers at Washington University have confirmed exceptional precision of -10 µm and +26 µm with challenging titanium milling

Maximum Economy

- ✦ Work on up to three blocks at the same time
- ✦ Automatic changer for eight tools



Working chamber of the N4 Impression



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YOUR GATE TO DIGITAL WORLD



High Quality
Made In Germany



WET GRINDING RELOADED N4+

Wet

80,000
RPM

4
Axes

8
Tools

3
Blocks



Exceptional precision

- Restorations in ultra HD
- Premium spindle with 4-fold hybrid ceramic ball bearings for maximum running smoothness
- microns repetition accuracy 3



Sophisticated design

- Eight fluid nozzles for even tool cooling
- Highest rotational speeds of up to 80,000 RPM with 800 watts of power
- Heavy industrial quality



Absolute independence

- 38 block materials from 20 manufacturers – and growing
- +1,300 titanium and CoCr prefabricated abutment blanks from 11 manufacturers
- Ideal for labs and in-office labs



University validated results

- Researchers at University of Washington confirmed exceptional precision of $-10 \mu\text{m}$ and $+26 \mu\text{m}$ with milling of titanium custom abutments



Maximum economy

- Work on up to 3 blocks with 45 mm length at the same time
- Automatic changer for 8 tools
- Webcam in working chamber for remote monitoring
- Ethernet interface for stable connection
- Removable coolant tank
- month warranty-24
- DentalCAM software with DirectMill function – included in scope of delivery and without license fees



Webcam in a room Remote monitoring



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SIMPLY BRILLIANT YOUR NEW COLLEAGUE IN THE LAB R5

10
Discs

Dry
Wet

80,000
RPM

5
Axes

technique
Direct Clean
To dry and clean
the blocks

16
Tools



Maximum precision

- Restorations in ultra HD
- Premium spindle with 4-fold hybrid ceramic ball bearings for maximum running smoothness
- microns repetition accuracy 3



Absolute independence

- Sheer unlimited material accessibility in 98 mm disc format block materials, and >800 titanium and CoCr prefab abutment blanks 30
- Covers the broadest range of indications, due to 35° rotation angle in the 5th axis, and up to 40 mm blanks



Powerful and robust

- Mills and grinds the toughest materials on the market including all Ti and CoCr
- watts of power and 80,000 RPM 800
- Heavy industrial quality



Unmatched reliability

- engineered and manufactured in Germany 100%
- Comprehensive sensor technology to monitor all vital system functions
- Webcam in working chamber for remote monitoring
- month warranty-24



Highly economical

- One of the fastest machines on the market
- Revolutionary material loading with DirectDisc Technology (patent pending)
- Automatic changer holds up to 10 discs, 60 block sor 60 prefab abutment blanks
- DirectCleanTechnology enables wet and dry on the fly: ionizer self-cleaning and built-in dryer, (patent pending)



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One-handed
clamping
made possible
by DirectDisc
Technology





CREATING PERFECTION

DUSK-TILL-DAWN MILLING AND GRINDING S5

Dry
Wet

60,000
RPM

5
Axes

16
Tools

8
Discs



Highest precision

- Restorations in ultra HD
- Premium spindle with precision bearing powerful 600 watts and 60,000 RPM
- microns repetition accuracy 3



Tremendous stability

- Processes all types of materials, including CoCr titanium and glass-ceramics
- Solid cast-body for minimum vibrations



Maximum variety

- Almost unlimited material accessibility in 98 mm disc format as well as 38 block materials and prefabricated titanium and CoCr abutment 800< blanks
- Large indication diversity due to a 30° rotation angle in the 5th axis, and up to 30 mm blanks
- Optional wet-grinding module converts the S5 into a wet-processing machine



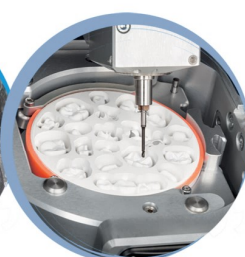
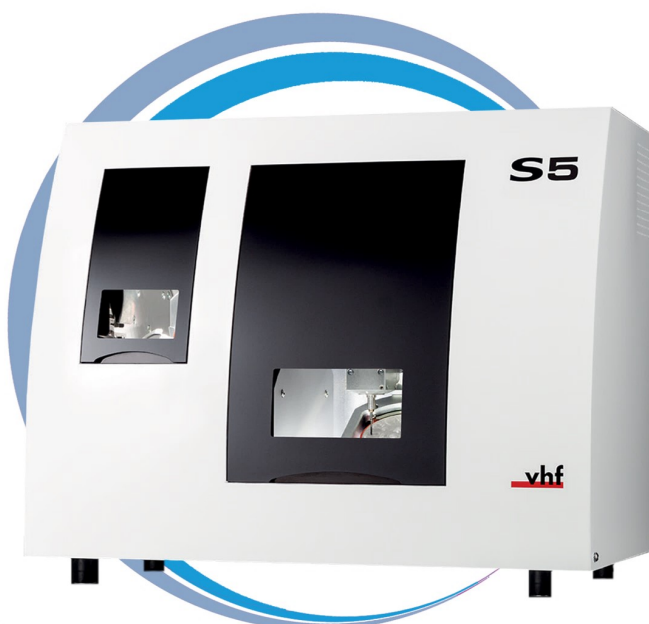
Outstanding reliability

- Day and night operation
- engineered and manufactured in Germany 100%
- month warranty-24



Maximum efficiency

- Milling and grinding around the clock due to automatic changer for 8 discs, 24 blocks or 48 prefabricated abutments Automatic changer for 16 tools
- ionizers neutralize the static charge of acrylic 3 chips – for a clean working chamber
- Very easy to operate via DentalCAM software with DirectMill function – included in scope of and without license fees



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