OPEN SOLUTION
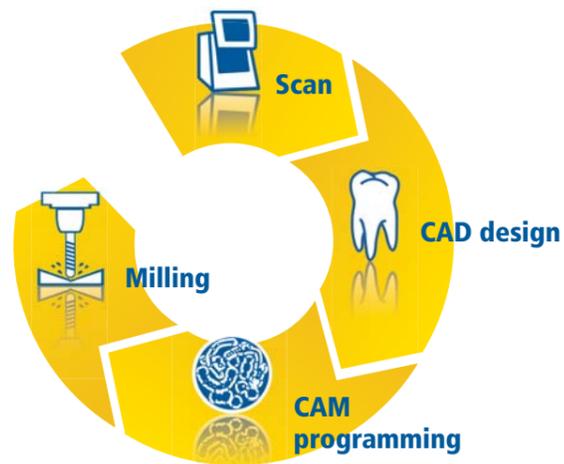
▶ NO LIMITATIONS IN CHOOSING RAW MATERIALS OR MATERIAL SUPPLIERS

▶ STANDARD AND FULLY CUSTOMIZABLE STRATEGIES AND TOOL-PATHS

▶ WORK WITH VIRTUALLY ANY MILLING MACHINE

Scan

CAD design

CAM programming

Milling

MAIN FEATURES

✓ Dynamic preview with thickness value
✓ Automatic and Manual creation / modification of accurate Support Pins or Connectors
✓ Automatic creation and detection of prep-lines by auto-recognition or by utilizing 3rd party files from CAD
✓ Automatic detection and management of holes and implant planes
✓ Automatic creation of Bridge Stabilizers
✓ Automatic attachments management
✓ Automatic detection and management of undercut areas
✓ Automatic implant bridge management
✓ Automatic management of 5 axis drilling
✓ Automatic management of models and bites milling
✓ Automatic management of bars milling
✓ Management of partial denture frameworks

SUM3D DENTAL
One step beyond

> **SUM3D Dental guarantees continuous evolution of the CAM Software, providing frequent updates that are always available to the software users. For more information, please see the "Release Notes" area on the website.**

OEM Version

SUM3D Dental can be customized or integrated into an existing system. Customization can be set at the prompt level or with ad-hoc strategies for dedicated machines. Tailor-made importers and interfaces are designed upon request.
Furthermore, specific functions library can be displayed straight from pre-existing applications.

Company profile

CIMsystem is a leading provider of CAD/CAM solutions with a worldwide network.

The company relies on its strong expertise in the manufacturing industry to fully support hundreds of customers. Starting from the initial assessment of their needs, down to the implementation and customization of the right solution, we deliver high-quality, innovative, and powerful technical tools, with training from qualified individuals providing excellent after-sales service and support.

CIM system
Computer Integrated Manufacturing

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Reverse Engineering	CAD/CAM Systems	Data Transmission	Training & Consulting	AD HOC Solutions

www.sum3ddental.com

© Karhan

DENTAL CAM

Powerful, complete and flexible

SUM3D DENTAL
One step beyond

CIM system
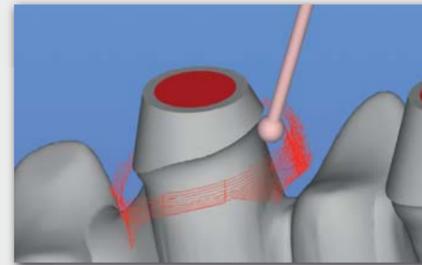Computer Integrated Manufacturing

SUM3D Dental imports data from any open CAD system: 3Shape®, Dental Wings®, EGS®, Exocad®, etc.

The **guided import** interface automatically chooses the best strategy to suit the type of imported object.
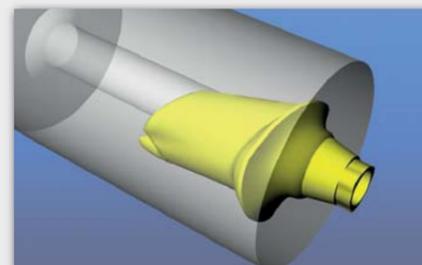
The system is simple and intuitive and it can be configured to operate in 5 different interface levels, depending on operator experience.

It is possible to mill any kind of material: zirconia, chrome cobalt, titanium, peek polymer, lithium disilicate, ceramic, PMMA, fiberglass, composite, wax, gypsum, sinterable metal, and the new multilayered (or pre-shaded) materials. The stock library is fully customizable through the guided creation of new shapes and materials. Material consumption is optimized thanks to advanced features, such as: re-machining of partially used stocks, automatic optimization of the axis inclination to reduce the stock thickness, nesting for stock optimization.

The **tool library** is fully customizable and easy to edit. SUM3D Dental can manage shape and life of all tools, supports and spindles.

The **rest material visualization**, the milling **simulation** and **collision check**, between the computed tool-path and all the components, prevent mistakes and damages to stock, tools, fixtures and the machine itself.

The "T" tool allows the machining of angled implants and the removal of internal and external undercuts.

Implant bridges are fully managed thanks to the automatic undercut detection and to the proper automatic tool's axis orientation.

Undercuts re-machining, internal or external, can be performed with continuous or indexed 5 axis machining, depending on the user's preference.
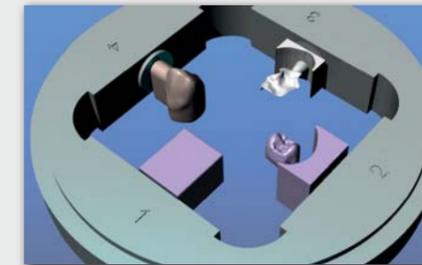
With a **lollipop tool**, undercuts can be easily removed by utilizing 3 and 4 axis machining.

With SUM3D Dental you are able to mill models with specific optimizations (strategies that allow to differentiate the level of finishing by areas).

It is possible to manage standard and customized stock.

The workspace is optimized according to the characteristics of the machine. Removal of material gives freedom to manage any type and size of the tool, even of large diameter, so as to guarantee shorter machining times.

In **SUM3D Dental, implant connections** are available from libraries that can be inserted directly **during the CAM process**, replacing the existing or missing ones in files coming from CAD modeling.

The library, fully customizable by the user, allows the association of specific strategies to each interface (shape and size of the tools, technological parameters, type of machining, etc.)
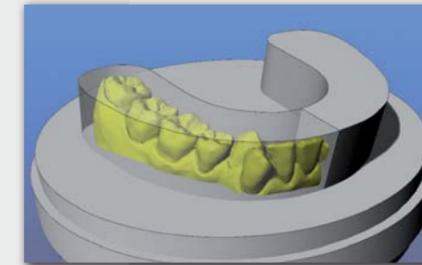

In **SUM3D Dental** several **Premilled Abutment** libraries are at your disposal (NT Trading®, Medentika®, Simbiosi®, Bluesky®, etc.). The abutment is automatically positioned and oriented in the cylinder.

SUM3D Dental offers different types of specific machining, according to the type of equipment and machine used.

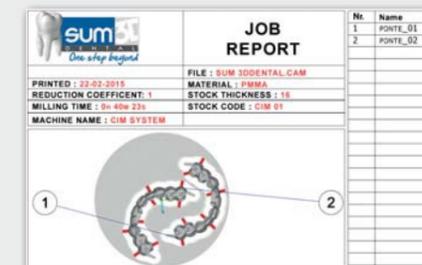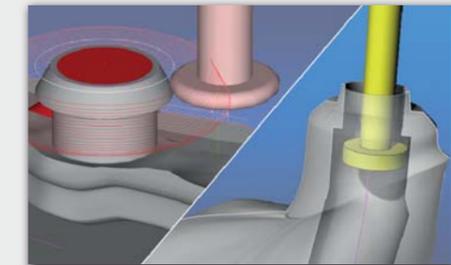The **Premilled** Library can also be implemented / created by the user.

The creation of **custom reports** and print-outs facilitates the organization and management of orders, avoiding production and shipment mistakes.

A wide range of variables can be managed to allow the automatic insertion in printing of information concerning the model of the machine, the type and material of the stock, milling time and many others.
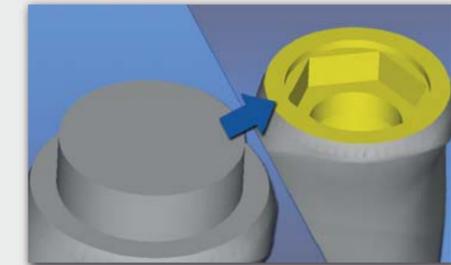
The templates are available for both Microsoft Office® and OpenOffice®.

SUM3D Dental also offers integration with select CAD Software (**Exocad®, 3Shape®, Egs®**). This version works directly within CAD, allowing direct data exchange and resulting in a reduction of processing time. Furthermore, SUM3D also utilizes 3rd party data from the CAD (**Exocad®, 3Shape®, Dental Wings®, DentalCad®**), such as margin / prep line designation, insertion axes, etc. This reduces import times and enhances our ability to precisely mill what has been designed.

The best CAM solution for the dental technicians and labs!

Are you dreaming of more functionality from your CAM software in the future?

SUM3D Dental makes your dreams a reality, right now!

The reliable CAM which enhances your technical capabilities, while improving the quality and range of your products.

SUM3D Dental is a CAM solution designed specifically for dental applications. The CAM software has been developed in coordination with direct feedback stemming from milling centers. SUM3D Dental is an open CAM software, it is versatile and very user friendly, offering high performance in minimal processing times. All at a really convenient and affordable price!

Using SUM3D Dental eliminates the need to manually adjust orientation of the restorations to remove the undercuts. There are no manual selection of curves needed to identify milling areas & no manual input required to drill holes and to identify the milling areas.

BUSINESS BENEFITS

- ▶ INCREASE YOUR BUSINESS THROUGH USE OF A WIDER RANGE OF PRODUCTS
- ▶ REDUCE MILLING TIME, MATERIAL AND TOOL CONSUMPTION
- ▶ SAVE TIME AND COSTS FOR TRAINING AND SUPPORT