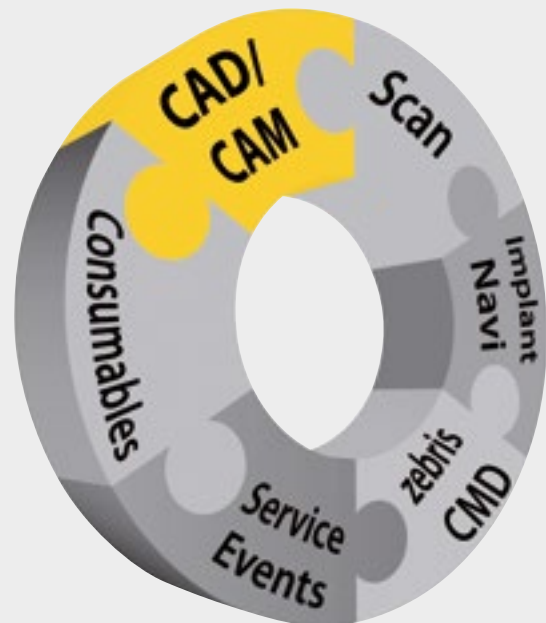


Tizian CAM

Milling machines

Just mill it

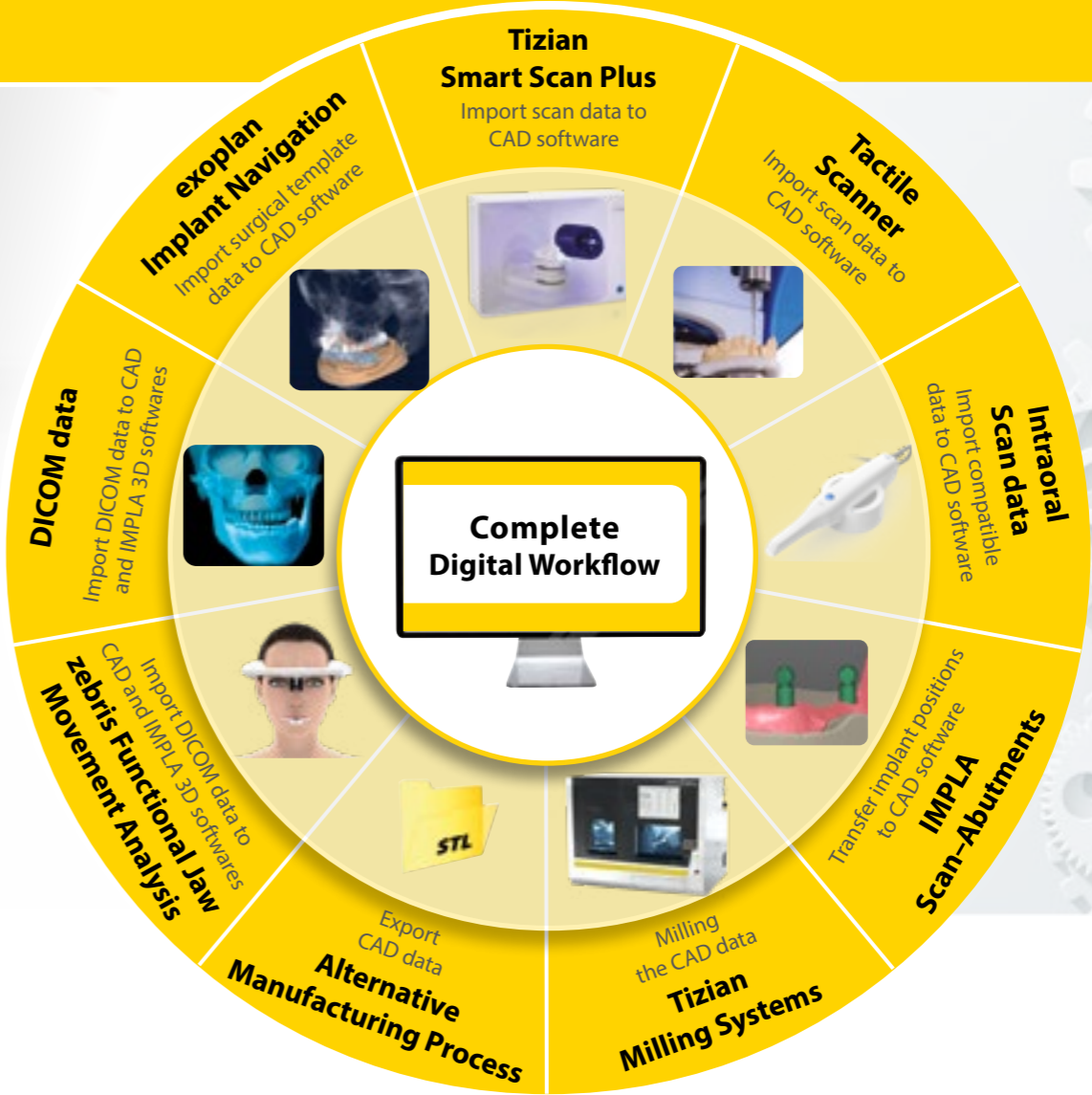




Wide product range

Partner for more than 50 years

Excellent Support



Content

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Quick assistance - Qualified support



Benefit from our service and from our support network. Our in-house and external specialists are here for you when you need technical assistance:
Tel. +49 6003 814-362, e-mail: export@schuetz-dental.de

Courses and events



One of our core competencies are training courses. Register for one of our many courses or plan your individual training or event with us:
Tel. +49 6003 814-362, e-mail: export@schuetz-dental.de

The „Complete Digital Workflow“

In this combination only available at Schütz Dental

No matter if you are a dental technician, a dentist or an implantologist: Set yourself apart from your competitors. The Complete Digital Workflow by Schütz Dental offers:

- **High level of safety:** Direct data import minimizes the error rate and increases precision.
- **Predictable success:** Include all the necessary criteria for fantastic aesthetics and excellent function from the moment you start to plan.
- **Independence:** The open systems keep the user independent.
- **Better cost efficiency:** Speed up all processes with the direct import of data to the software.
- **Excellent support:** As all components come from the same supplier, you always have the right person at hand to help you.

Let us plan your individual Complete Digital Workflow. Call us now at +49 6003 814-362 to arrange a free demo appointment.



**The compact system
to cover most tasks!**

Tizian 1.5 Pro

The flexible milling system in the smallest of spaces!

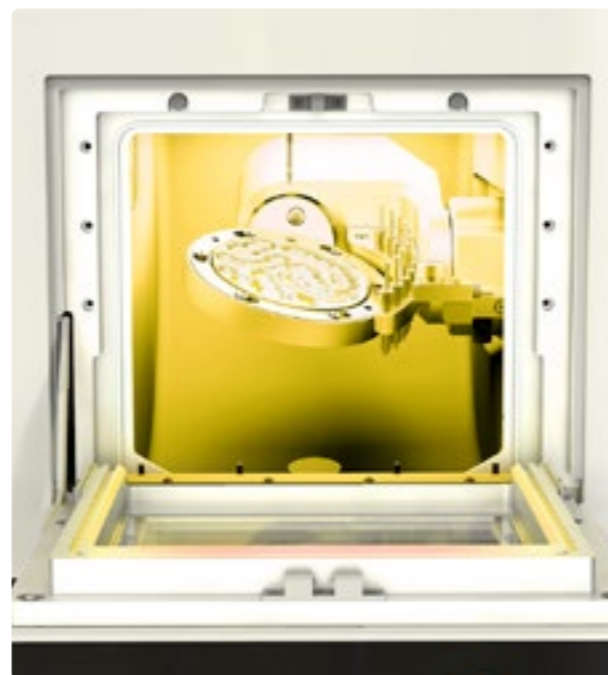
The extremely stable design of the mono-block cast body enables precise machining in round blank and block form. The machine's small dimensions and 5-axis simultaneous technology offer

a unique ratio of machine size and functionality.

Tizian 1.5 Pro stands out by its performance for your laboratory – come to see it for yourself!

Technical Highlights

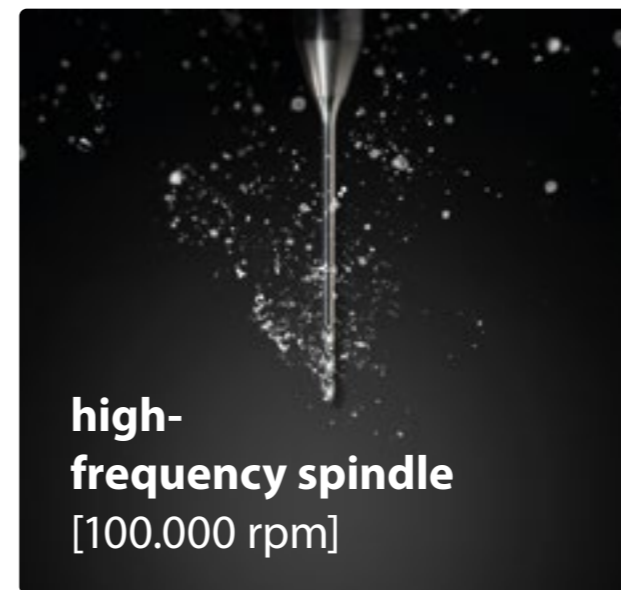
- auto calibration*
- automated cleaning function*
- metal processing**
- turn-milling-grinding-processing possible
- novel, closed mono-block cast body for highest stability and precision
- no external PC required
- half-open blank holder C-Clamp (optional)
- ionizer inclusive
- high precision due to integrated temperature compensation
- wet and dry machining possible
- minimum external compressed air, only 3 bar required
- short amortization period
- minimal footprint



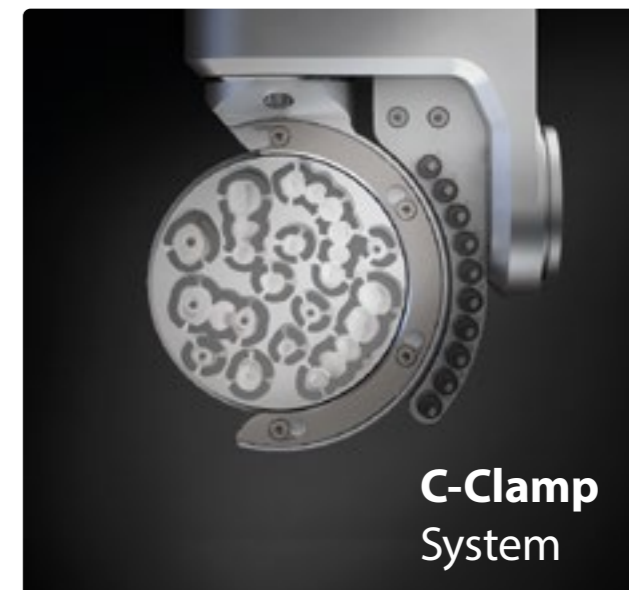
Request your individual offer now.

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**high-
frequency spindle**
[100.000 rpm]



**C-Clamp
System**

**Better performance, maximum flexibility and extended range of application
with minimal space requirements**

An exceptional ratio of power, speed and precision – this is what the powerful high-frequency spindle with 750 W and 100,000 rpm offers. Thanks to the quick-clamping system, the various holder systems can be changed quickly and easily – while maintaining the same precision. Time-consuming calibrations are therefore unnecessary.



**turn-
mill-
grinding-
processing**



**10-fold
tool changer**

Unlimited flexibility in milling and grinding

Thanks to a machining angle of up to 360°/130° (A-axis/B-axis), the system is able to master even the most demanding tasks without effort. The 10 tool slots additionally increase the flexibility of the new Tizian 1.5 Pro.



Tizian 3.5 Series

The all-rounders for sophisticated labs.

Designed for the latest requirements of CAD/CAM machining.

The Tizian 3.5 series' machine concept has been developed to meet the latest requirements of CAD/CAM machining. One single system is able to machine all relevant blank materials. The optimized machine kinematics with wide angle ranges of over 30° of the 5 axes permits **high quality** grinding and milling in **wet or dry machining**. The optional zero point clamping system in Tizian 3.5 **facilitates the change of the blank** with its holder simply at the push of a button. In addition, diverse adapter systems can be used with the zero point clamping system, such as different Pre-Fab abutment holders, glass ceramics holders or the C-Clamp holder. The Tizian 3.5 Loader with fully **automatic blank loader** also facilitates **versatile processing** of up to 12 blanks in unmanned operation.

Top Features

- >> EC-servomotor for even **higher precision**
- >> Axis working angle of up to 30 degrees for milling **extreme undercuts**
- >> **Long service life** by means of a chip protection on the tool changer
- >> Stay free and independent with a **license-free software** and with open STL data
- >> **Safe processing** by means of an automatic temperature control and axis calibration
- >> **Revolutionary machine base** made of polymer concrete for a greater rigidity and consequently, a higher precision.
- >> **Simultaneous five-axis machining**
- >> **Absolute measuring systems** in all axes
- >> Dry and wet machining
- >> Machining of all significant materials in dentistry including metals
- >> Working angle of the axes of up to +/- 30 degrees
- >> **20-fold tool changer**, covered
- >> Machining on the face of the blank is an option (B axis in 90 degree position)
- >> Jäger high frequency spindle with up to 60,000 rpm

Tizian 3.5 Loader Lines

- >> Blank loader for up to 12 blanks (different materials)

Mill your own individual abutments by means of an optional holder for prefabricated implant abutments combined with the according CAM software.



Pro Professional solution for highest demands

Pro

The high-resolution dynamic servomotors with absolute measuring systems used in the Tizian 3.5 **Pro** Series guarantee up to 20 % faster machining with optimum precision. A further advantage of the **Pro** series is that this machine system is constructed from a one-piece machine frame made of polymer concrete which guarantees the highest possible stability for vibration-free machining.

Pro+ The plus in performance and precision

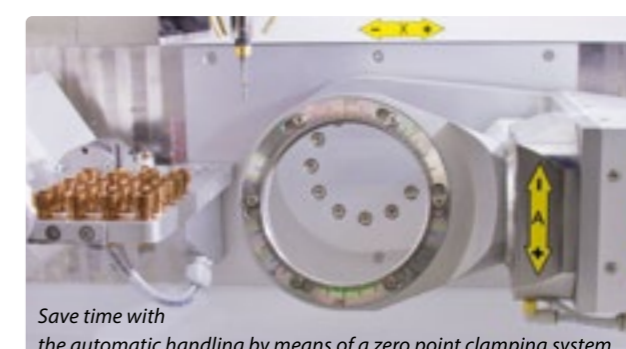
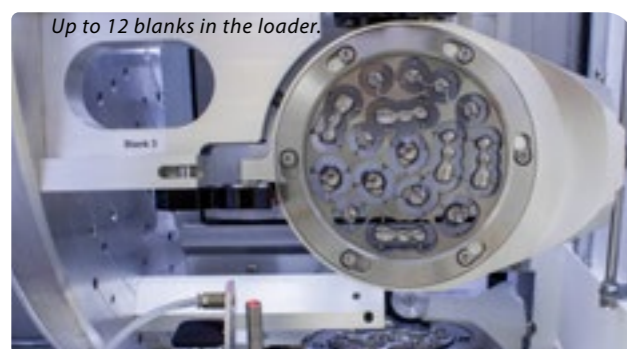
Pro+

As already implemented in the Tizian 3.5 **Pro**, the Tizian 3.5 **Pro+** Series also comes with high-resolution dynamic servomotors and absolute measuring systems. To use this advanced technology and to be able to fully exploit its full potential, the CORiTEC 350i PRO+ is equipped with a water-cooled, powerful 3-fold hybrid ball bearing 2.6 kW milling spindle. The massive stainless steel blank holders help to give the system better stability and to reduce vibrations. The water cooling ensures a constant temperature of the milling spindle which significantly minimizes thermal expansion of the spindle and provides even more precise milling results.

Request your individual offer now.

We look forward to your call.

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Request your individual offer now.

We look forward to your call.

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**The big ones
For the highest aspiration level**

CORiTEC 650i / CORiTEC 650i Loader

High-End-Quality with future-oriented technology.

The systems are offered at very attractive prices. They are equipped with high-quality industrial milling technologies, such as granite structure, linear drives in the linear axes, torque motors in the rotary axes as well as digital absolute length measuring systems and powerful main spindles. The machine concept impresses with its precise, vibration-free and dynamic motion sequences in the demanding and complex metal working processes. All other relevant materials can also be milled or ground with high quality using this machine system. The **CORiTEC 650i** loader includes a fully integrated automatic 16-fold blank changer. This allows you to operate the machine system at full capacity around the clock without supervision, while maintaining consistent high precision. This makes the system the ideal solution for large labs and milling centers, where high quality standards and large volumes are paramount.

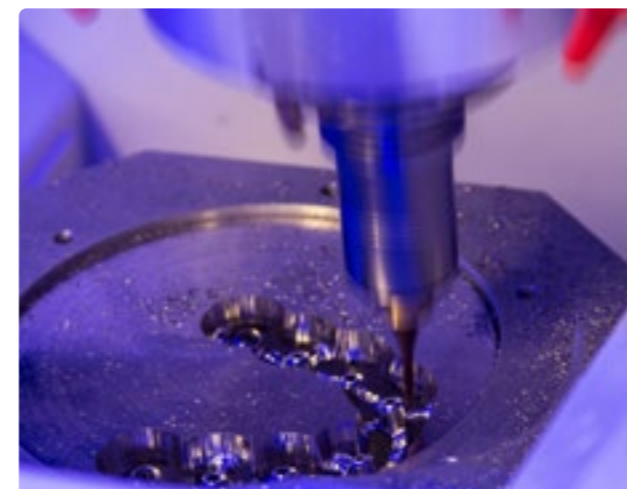
Technical Highlights

- solid axis construction made of ground natural granite for 5-axis simultaneous machining
- high dynamics for high-precision milling results
- absolute, high-resolution measuring systems in all axes (0.5 µm)
- high-frequency spindle up to 50,000 rpm and 3.2 kW power with HSK 25 tool holder
- high precision due to integrated temperature compensation
- 16-fold fully automatic workpiece changer
- optional around-the-clock operation
- hybrid machining (precise remilling of SLM work)
- suitable for large laboratories or milling centers



*Loader

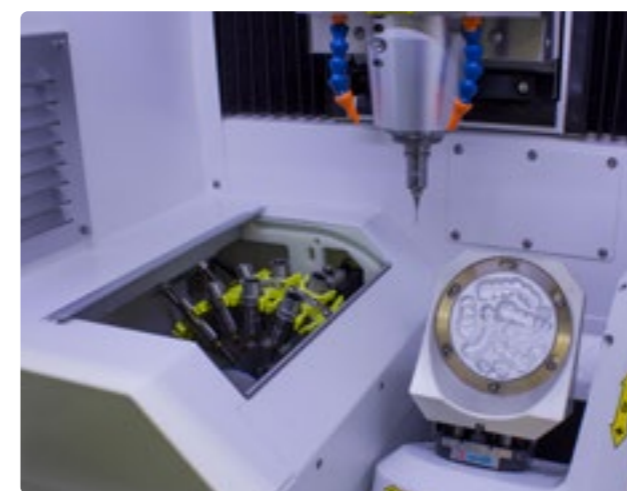
Pictures may vary.



Hybrid machining system

With the CORiTEC 650i high-precision machine, the technology partners have also developed a special process for high-precision re-milling of workpieces previously produced using the SLM process. This allows e.g. build highly complex web constructions made of various materials such as titanium or CoCr in advance in the SLM process, and subsequently rework interfaces with the CORiTEC 650i for the perfect fit and surface finish.

This procedure is implemented in a special workflow in which a 3D probe is integrated in the CORiTEC 650i. The touch probe determines the exact position and position of the SLM building board. Using 3D measurement functions of the CAM software, the fit and interface areas of the restorations on the SLM plate can then be milled precisely with the CORiTEC 650i. In principle, this method can be used in principle with any SLM systems and with different CAM systems in combination with the CORiTEC 650i.



Pictures may vary.



SCHÜTZ DENTAL

Tizian CAM Pro Software

CAM Software: Next Level

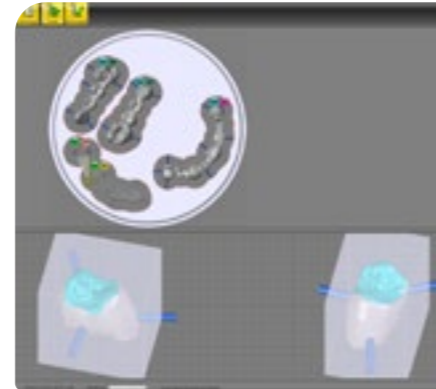
Tizian CAM Pro is a state-of-the-art software. Operate the different Tizian systems and even some compatible third-party systems with Tizian CAM Pro.

Your benefits:

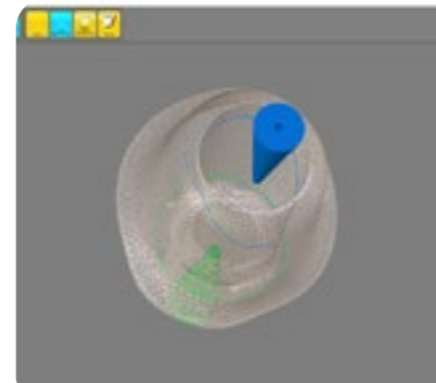
- **Only one software for your various systems**
- Work faster and even more efficiently:
Up to 40 % faster calculation incl. simulation
- Optimize your workflow
- **Easy** handling
- Be more **flexible**
- Benefit from a **wide range** of functions

Services:

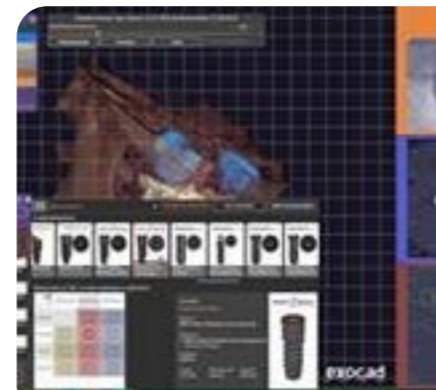
- No license fees
- Automatic Updater
- Machining of all conventional dental materials
- Modern multilayer display + colored 3D display incl. display of undercuts in color
- Free choice of blank shape
- Automatically places bars (connectors)
- Optimized workflows for milling a secondary construction (measurement for re-milling is carried out directly)
- Possibility to set up several user accounts, in accordance with knowledge and qualification of the technicians
- Easy set up of milling strategies by "drag and drop"
- Multicore: Use up to 24 processor cores simultaneously
- Up to 40 % faster calculation incl. simulation
- Many of the important open dental milling machines can be controlled (uniform blank administration)
- Painter function, optional selection of areas which are to be treated separately (e.g. occlusion or margin with 0.3 mm fine finishing tool)
- Simultaneous 5-axis machining and/or 3+2 machining to mill undercuts
- Easy selection of the milling option in the cavity: simultaneous 5-axis, 3+2-axis, 3-axis
- Quickly switch between wet machining and dry machining
- Indication of the mills' service life in meters
- Auto-nesting of individual restorations
- Integrated adapters/fixation systems: NT Trading, Medentika, Dess etc.



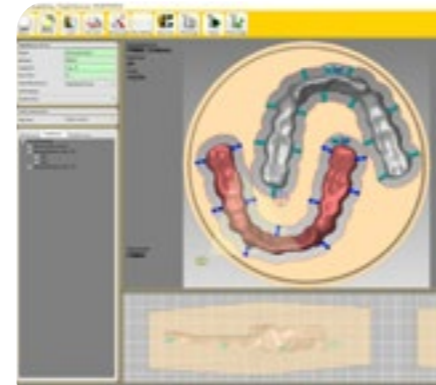
All at a glance: During nesting, the objects are simultaneously from different angles and can shown thus be positioned optimally in the blank.



Simulation: Virtual display of the milled restoration based on the selected milling strategy and the trajectory calculation. Adapt the quality of the simulation to your needs.



Automatic detection of fissures and the insertion direction.



Optimal nesting: Milling control, automatic connection of several objects and height optimization for a most efficient use of the blank.

Pictures may vary from actual product appearance.

A wide range of top quality blanks and tools.



Tizian Blanks and Mills

Quality control for your safety.

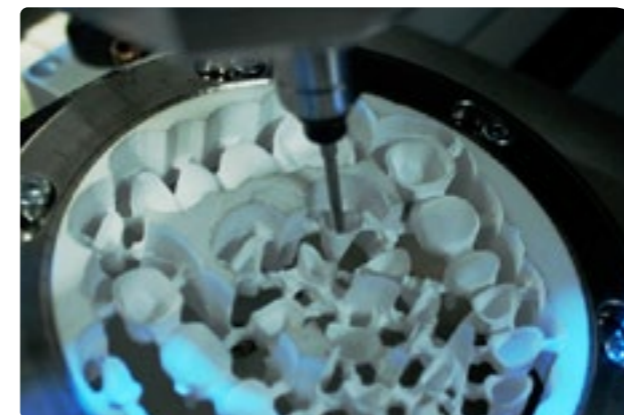
A blank program which hardly leaves anything to be desired. We offer you a wide range of top quality blanks: From "A" as in acrylics and "P" as in PEEK to "Z" as in zirconium dioxide. All of our materials are subject to permanent strict quality control to ensure that you will always receive materials in the accustomed excellent Schütz Dental quality.

Our mills: These precisely manufactured mills will produce exactly the restoration you have designed on screen. The cutting capacity of the premium mills for the Tizian Cut 5.2 and Tizian Cut 5.2 Pro systems, in particular, has been adapted optimally to the Tizian CAM Pro Software. These tools provide extraordinary results while offering a long service-life and a high level of safety.

www.schuetz-dental.com

Blanks, mills and much more.

Visit us online!



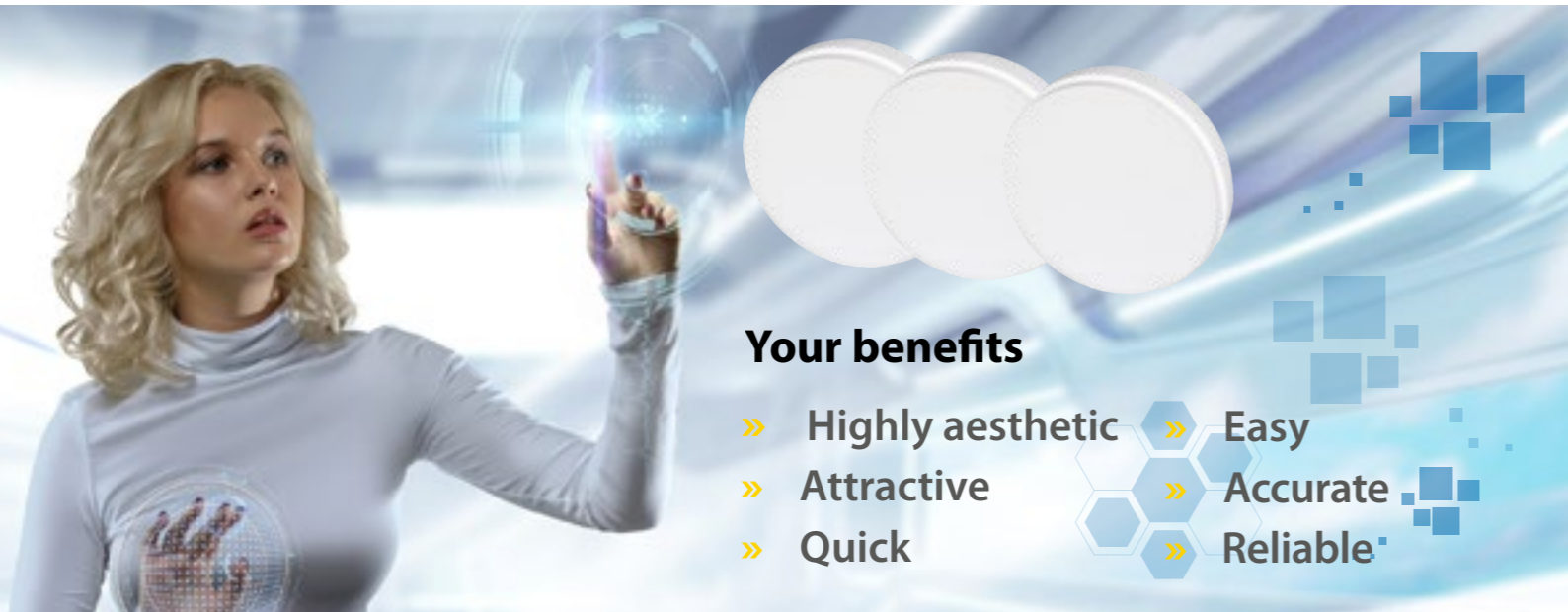
Machining of a zirconium dioxide blank.



Tizian PEEK for milling metal-free frameworks.

Pictures may vary from actual product appearance.

SCHÜTZ DENTAL



Your benefits

» Highly aesthetic

» Attractive

» Quick

» Easy

» Accurate

» Reliable

Tizian Blank 5.0

Multilayer 4Y Zirconium Dioxide Disc, 98 mm

Indications: Monolithic, fully anatomic crowns, partially and fully veneered crowns and bridges with up to 16 units. Individual supra constructions for anterior and posterior teeth on abutment teeth or implants. WAK 10 · 10⁻⁶ · K⁻¹.

art.no.	height / shade	art.no.	height / shade
220924	14 mm / A light	220942	20 mm / C light
220925	18 mm / A light	220943	25 mm / C light
220926	20 mm / A light	220936	14 mm / C dark
220927	25 mm / A light	220937	18 mm / C dark
220920	14 mm / A dark	220938	20 mm / C dark
220921	18 mm / A dark	220939	25 mm / C dark
220922	20 mm / A dark	220944	14 mm / D light
220923	25 mm / A dark	220945	18 mm / D light
220932	14 mm / B light	220946	20 mm / D light
220933	18 mm / B light	220947	25 mm / D light
220934	20 mm / B light	220948	14 mm / Bleach
220935	25 mm / B light	220949	18 mm / Bleach
220928	14 mm / B dark	220950	20 mm / Bleach
220929	18 mm / B dark	220951	25 mm / Bleach
220930	20 mm / B dark	220954	14 mm / White
220931	25 mm / B dark	220955	18 mm / White
220940	14 mm / C light	220956	20 mm / White
220941	18 mm / C light	220957	25 mm / White

Multilayer 5Y Zirconium Dioxide Block 40 x 19 x 15,5 mm

art.no.	shade
220959	A light
220960	A dark
220961	B light

Translucent 98 mm, ZrO₂

Indications: Extremely aesthetic, monolithic, fully anatomic crowns, partial crowns and bridges with up to 16 units, supra constructions. Highly recommended for partially and fully veneered aesthetic restorations. WAK 10 · 10⁻⁶ · K⁻¹.

art.no.	height / shade	art.no.	height / shade
221003	14 mm / A1	221015	14 mm / B2
221004	20 mm / A1	221016	20 mm / B2
221005	25 mm / A1	221017	25 mm / B2
221006	14 mm / A2	221018	14 mm / C2
221007	20 mm / A2	221019	20 mm / C2
221008	25 mm / A2	221020	25 mm / C2
221009	14 mm / A3	221021	14 mm / D3
221010	20 mm / A3	221022	20 mm / D3
221011	25 mm / A3	221023	25 mm / D3
221012	14 mm / A3.5	221000	14 mm / White
221013	20 mm / A3.5	221001	20 mm / White
221014	25 mm / A3.5	221002	25 mm / White

Tizian Creativ RT CAD-Software

Comprises numerous modules and can be extended as needed.

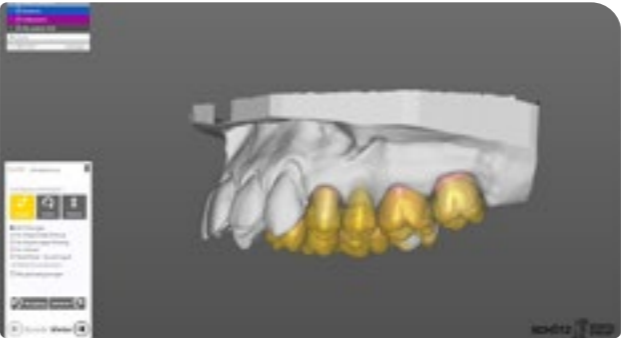
High-End CAD-Software in „real time“.

Tizian Creativ RT CAD-Software is a high-end module software. Not only is this software state-of-the-art, but its development is ongoing which provides the user with the highest level of reliability for the future. The basic

software already offers a wide range of options. Further modules can be added as required. For a consultation please call our Export Team at +49 6003 814-365.



Telescope 1-2



Crowns, bridges, inlays

Your benefits:

- **Fast processing:** The system includes a high performance workstation, Quadcore, 64 bit*, especially optimized for this software.
- **Flexibility:** Almost every single point of the designed restoration can be modified subsequently.
- **Concentrate on what is important to you:** Depending on the type of restoration, substantial parameters are selected automatically.
- A high level of **creativity:** Individualize the automatically generated restorations with a multitude of virtual tools.


Ask for our special brochure for Tizian scanners and Tizian Creativ RT.

The basic software at a glance:

- Telescopes
- Attachments (editable)
- Automatic generation of collars
- Mirror reflection instead of design
- Display of contact points
- Automatic integration of a situ scan
- Inlays, onlays, Maryland bridges
- Use it with compatible touchscreens
- Open interface for open intraoral cameras and import of open STL data
- Free export of STL data
- Automatic adaption in the approximal area and of the opposing jaw
- Crowns, bridges (fully anatomical, reduced), offset copings, overpress copings

In addition, this software offers

- Wide range of indications
- Wide range of materials and easy material selection
- Optimized data export for 3-axis, 4-axis, 5-axis machining and laser sintering
- Optional additional scans, e.g. gingiva mask or situ model as well as 2D photo import
- Save individual parameters
- A choice of the below languages:



*The workstation is not included in the software price. Pictures may vary from actual product appearance.



Lab Scanner



Tizian JMA Optic by zebris
Safe prosthetics.



CAD/CAM Scanners

The optimal hybrid solution.

Experience our unparalleled "Complete Digital Workflow"

Combine the precision of a tactile scanner with the speed of an optical scanner. Use the benefits of each scanner depending on the indication: Scan exactly and quickly with a light scanner. To scan even more precisely, use the tactile scanner with its scanning probe. Benefit from an excellent fit when using a tactile scanner by Renishaw.

Achieve an optimal fit for your telescopic restorations and use this precision as your competitive advantage! Produce safe and reproducible restorations of the highest quality for your patients! Combine tactile scanning with the fast and exact stripe-light scanner Tizian Smart-Scan plus for your dental lab or practice lab. This system was designed especially for dental projects and it stands out by its easy handling and open interfaces. By means of its precision and speed, Tizian Smart Scan plus is especially well suited for models with wide-span implant-supported restorations and/or bridges. Tizian Smart-Scan plus ideally complements the highly precise tactile scanning of the Renishaw scanner.

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The new dimension of the function-oriented digital workflow

Welcome to the world of functional digital dentistry

Precise, safe, quick and economic! Based upon a light optics procedure, the system records the condyle movements and all six movement directions of the lower jaw with extremely high precision.

Make an appointment now!

Call us now at
+49 6003 814-362

or send us an e-mail at
export@schuetz-dental.de
to arrange a free demo appointment.

Your benefits:

- Reliable prosthetics
- Forensic transparency
- Documentation
- Happy patients
- Digital image for your practice
- Decisive competitive advantage

Schütz CAMPUS

Visit one of our CAD/CAM courses.

The topic of "digitization" has become an integral part of dentistry. Take part in these developments and let us inspire you with innovative concepts for practices and laboratories.

Whether you are a dental technician, dentist or implantologist, consider continuing education for you and your team. Inspire your customers, motivate your employees and invest in your future today.

Register now for one of our courses.

This is what we offer:

- >> Exciting live previews
- >> Practical hands-on courses
- >> Individual trainings for you and your team
- >> From users for users

Your benefits:

- >> The latest techniques and procedures
- >> Most modern machines
- >> From users for users
- >> Workshop character and professional exchange with your peers



Have a look at our courses:
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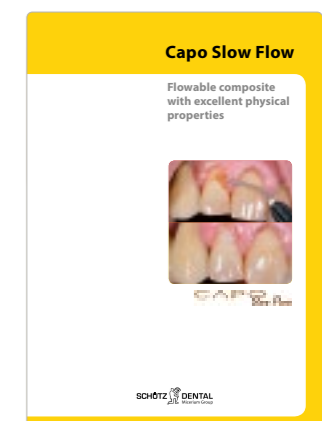
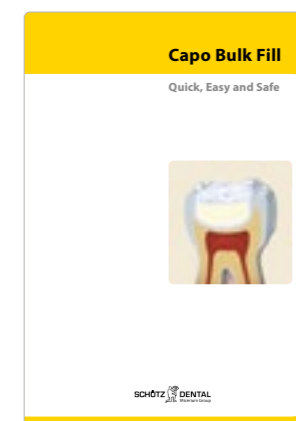
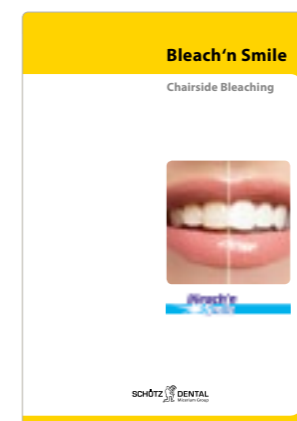
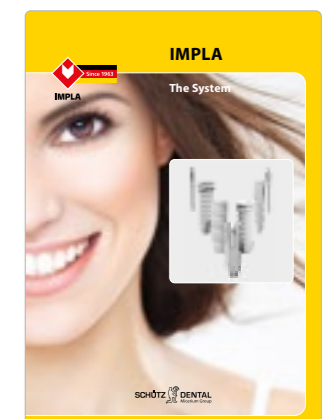
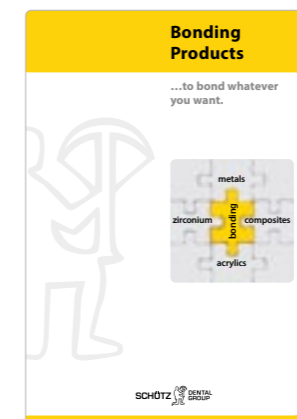
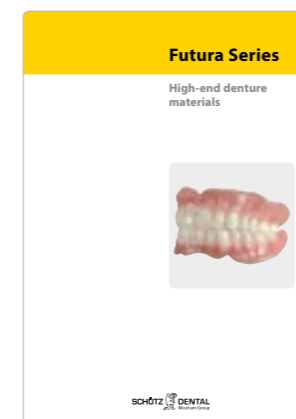
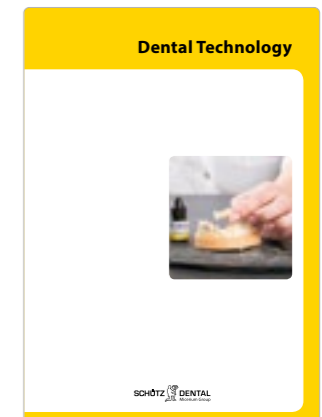
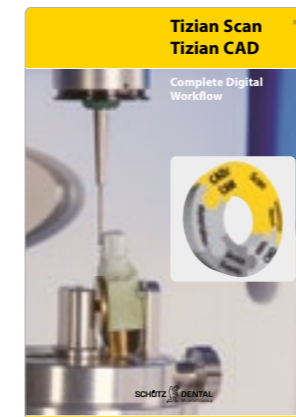
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area manager for
individual courses



*An investment
in knowledge
pays the best interest.*

- Benjamin Franklin

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Visit our "News" area to find helpful articles, tips&tricks, case reports and much more.

Tizian milling machines by comparison



Technical data	Tizian 1.5 Pro	Tizian 3.5 Loader Pro / Pro+	Tizian 3.5 Pro / Pro+	Tizian 3.5 Loader	Tizian 3.5	CORiTEC 650i 650i Loader
Number of axes	5	5 + 1	5	5 + 1	5	5 5 + 2
Number of tool slots	20	20		20		32
Pmax~/rotation speed max.	2,6 kW / 10.000 U/min	Pro: 1 kW / 60,000 rpm		1 kW / 60,000 rpm		2.3 kW 50,000 rpm
		Advanced: 2.6 kW / 60,000 rpm				
Axis drive	AC-Servoantriebe mit Absolutencoder	AC servo drive with absolute encoder		Servo drive		Linear drive torque drive, absolute measuring system
Material changer	Automatisch bis 10 Blankaufnahmen	Automatic Up to 12 blank slots	Manual 1 blank slot	Automatic Up to 12 blank slots	Manual 1 blank slot	Manual automatic 1 blank slot up to 16
Number of blank slots						
Zero-point system	✓✓	✓✓	optional	✓✓	optional	✓✓
Dry machining	✓✓	✓✓		✓✓		✓✓
Wet machining	✓✓	✓✓		✓✓		✓✓
Blank processing 98 / 98.5 mm	✓✓	✓✓		✓✓		✓✓
Block processing (CAD/CAM blocks)	✓✓	✓✓		✓✓		✓✓
Basic setup	Mineralguss, intern gekühlt	Polymer concrete		Steel / aluminium		Granite
Dimensions	422 x 556 x 644 mm	ca. 785/1325 x 1100 x 1940 mm	ca. 785/1325 x 1100 x 1940 mm	ca. 785/1325 x 1100 x 1940 mm	ca. 785/1325 x 1100 x 1940 mm	ca. 785/1325 x 1100 x 1940 mm
Weight	75 kg	ca. 250 kg / 255 kg	ca. 205 kg / 210 kg	ca. 225 kg	ca. 180 kg	ca. 625 kg / 930 kg
Materials						
Zirconium dioxide / aluminium oxide	✓✓	✓✓		✓✓		✓✓
PMMA / acrylics / PEEK / composites / wax	✓✓	✓✓		✓✓		✓✓
Glass ceramics / hybrid ceramics	✓✓	✓✓		✓✓		✓✓
Sintered metal	✓✓	✓		✓		✓✓
Non-precious alloys	✓✓	✓✓		✓		✓✓
Titanium	✓✓	✓✓		✓		✓✓
Indications						
Copings / crowns / inlays / onlays	✓✓	✓✓		✓✓		✓✓
Bridges with up to 3 pontics	✓✓	✓✓		✓✓		✓✓
Bridges with up to 14 pontics	✓✓	✓✓		✓✓		✓✓
Telescopes	✓✓	✓✓		✓✓		✓✓
Therapeutic splints (bite splints)	✓✓	✓✓		✓✓		✓✓
Tooth models	✓✓	✓✓		✓✓		✓✓
Frameworks	✓✓	✓✓		✓✓		✓✓
Abutments on adhesive titanium basis	✓✓	✓✓		✓✓		✓✓
Prefabricated abutments made of titanium/CoCr	✓✓	✓✓		✓✓		✓✓
One-piece abutments (zirconium dioxide, acrylics)	✓✓	✓✓		✓✓		✓✓
One-piece abutments (titanium, CoCr)	✓✓	✓✓		✓		✓✓
Bar constructions / one-piece implant-supported abutment bridges	✓✓	✓✓	✓✓	✓	✓	✓✓



The details listed are examples. We will be glad to provide you with a specific offer. Errors and omissions excepted. Subject to goods being unsold and to changes without prior notice.

Contact us

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