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The Complete Digital Workflow
Milling machines
Tizian 1.5 Pro
Tizian 2.5 Loader Pro
Tizian 3.5 Serie
Tizian 3.5 XPro / Loader XPro
Tizian 5.5 Loader
Tizian 6.0
Tizian CAM Pro Software
Tizian Blanks Tizian milling cutter

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Scanners + CAD-Software

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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



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.



2

- **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.



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 Tizian 1.5 Pro stands out by its performance for your and 5-axis simultaneous technology offer a

unique ratio of machine size and functionality.

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





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.



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.

Request your individual offer now.

We look forward to your call. Tel. +49 (0) 6003 814-362









Full automation in the smallest space!



Tizian 2.5 Loader Pro

Tizian 2.5 Loader Pro

Full automation in the smallest space!

The perfect solution for technicians who want to organize their daily work more independently!

The compact 5-axis milling machine opens up a completely new machine segment. The Tizian 2.5 Loader Pro offers automation and 5-axis simultaneous machining of blanks and blocks in

the smallest of spaces and at an attractive priceperformance ratio.

Technical Features

- Auto-calibration* •
- Automated cleaning function*
- Integrated water supply and filtering •
- Integrated temperature compensation for permanently consistent milling accuracy
- Innovative, closed mono-block cast body for stability and precision
- Variety of applications: Standard round holders, prefabricated abutments and milling of block materials
- Up to \pm 30° axis adjustment for 5-axis processing of divergences
- Compressed air supply: only 7 bar external compressed air supply required; 3-fold integrated ionizer





The fully automatic 7-fold blank changer enables different restorations to be processed one after the other without any loss of time. The system processes each restoration with consistently high precision. Thanks to the modular design of the blank changer, it can be easily replaced with an already loaded blank magazine.

For even more flexibility, the system also has an automatic 16-position tool changer. This functionality saves a lot of time and offers the user enormous flexibility. Like the blank changer, the tool changer also has a modular design. Changing to another equipped tool magazine is quick and easy.



The powerful spindle is a particular highlight of the system. With an output of 750 watts and up to 100,000 rpm, the high-frequency spindle offers an optimum ratio of power, speed and precision. This has a positive effect on every restoration.

No matter what material* is used, the Tizian 2.5 Loader Pro produces your restorations with precision. Milling zirconia and acrylics is just as easy as grinding glass-ceramic blocks and processing prefabricated abutments.

Request your individual offer now.

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The all-rounders for sophisticated labs.

Designed for the latest requirements of CAD/CAM machining.

With the Tizian 3.5 Pro series, a machine concept has been developed that meets the modern requirements of CAD/CAM processing. All relevant blank materials can be processed on a single machine system. The optimized machine kinematics with the high clearance angles of the 5 axes allow milling and grinding in wet and dry machining in high quality. The zero-point clamping system on the Tizian 3.5 Pro makes it easy to change the blank holder in the milling area. In addition, a wide variety of adapter systems can be used with the zero-point clamping system, such as various PreFab abutment holders, glass ceramic holders or the C-clamp holder. The Tizian 3.5 Loader Pro with fully automated blank magazine also enables versatile processing of up to 12 blanks in unmanned operation.



Up to 12 blanks in the Loader. SCHÜTZ DENTAL



Extraordinary zero point system.

Top Features

- >> High precision by means of EC servomotor drive
- >> High axis setting angles for the milling of heavy undercuts
- >> License-free and with open STL data, you remain free and independent
- **Safe working** thanks to automatic temperature monitoring and axis calibration
- > Revolutionary base structure made of polymer concrete for greater rigidity and therefore more precise milling results
- >> 5-axis simultaneous machining
- Absolute measuring systems in all axes
- Wet and dry processing
- >> Processing of all essential materials of the dental industry incl. metal processing
- >> 20-position tool changer, covered
- >> Frontal machining of the workpiece possible (B-axis in 90 degree position)
- >> HF spindle with up to 60,000 rpm

Tizian 3.5 Loader Lines

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

Request your individual offer now.

We look forward to your call. Tel. +49 (0) 6003 814-362





Tool holder for up to 20 tools.

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

Pro Professional solutin for highest demands

The high-resolution dynamic servomotors with absolute measuring system used in the Tizian 3.5 Pro Series provide up to 20 %* faster processing with optimum precision. Another great advantage of the Pro-Series is that this machine system is constructed from a one-piece machine frame made of polymer concrete and therefore offers outstanding stability for vibration-free processing.

Pro+ The plus in performance and precision

As already implemented in the Tizian 3.5 Pro, the Tizian 3.5 Pro+ series is also equipped with highresolution, dynamic servomotors and absolute measuring systems. To take full advantage of this advanced technology, the Pro+ is equipped with water cooling and a powerful 3-fold hybrid ball-bearing 2.6 kW milling spindle. To achieve even greater stability and reduce vibrations, a solid stainless steel blank holder is used. The water cooling system ensures a consistent, constant temperature of the milling spindle, preventing thermal expansion of the milling spindle and enabling even more precise milling results.

Zero-point clamping system for automatic and time-saving handling SCHÜTZ DENTAL

Pro



The Tizian 3.5 series has been expanded: Tizian 3.5 XPro and Tizian 3.5 Loader XPro

Optimization in all areas



XPro Good things get even better

The Tizian 3.5 series family has grown. The new, improved XPro and Loader XPro have been equipped with a new 3 kW spindle, which ensures a continuous output of 3,000 watts. The NC axes have also been redesigned and given new drives, resulting in improved precision and performance in the linear axes. The external appearance has been revised. The XPro and the Loader XPro now have a design LED skirting board with status display and a machine foot cover.

Roughing time of a standard crown possible in 9 minutes

Loader XPro



Loader XPro Produktion 24/7

The capacity of the workpiece holders in the Loader XPro has been increased from 12 to a maximum of 15 workpiece holders and, with the loader function, is ideal for continuous operation in your laboratory. The cleaning and cooling systems have also been updated. The XPro and the Loader XPro are now equipped with a modified suction guide and optimized nozzle geometry. Theimprovedsurfacecoatingandthemodifiedshape of the wet cell lead to a reduction in dirt accumulation. The modified coolant circuit and the six nozzles on the milling head ensure a "cool head" and a longer tool life.

Request your individual offer now.

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Tizian 5.5 Loader The Power machine

A completely new generation of milling cutters combined with the enormous power and distortion resistance of the Tizian 5.5 Loader allow incredible milling speeds with maximum precision. The Tizian 5.5 Loader 5-axis milling machine offers you

Technical Highlights

- High Power HF spindle with 3.65 KW for maximum performance
- Spindle head with 4 water nozzles for optimum cooling
- Extra powerful servomotors with 400 watts each
- New, reinforced zero-tension system, reduces vibrations
- Completely interchangeable 20-position
- tool bench
- Loader with 15 blank holder positions

Alle verwendeten Bauteile und Komponenten erfüllen folgende Ziele:

- Speed
- Precision
- Convenient, safe operation
- Future-proof

SCHÜTZ DENTAL

many advantages thanks to its optimized housing and technology. It opens up a completely new machine segment. The improved and enlarged 15.6" touch display in full HD quality rounds off the new optimized appearance of the Tizian 5.5 Loader. The high-power HF spindle with high-performance inverter ensures a continuous output of 3,000 W and a maximum output of 3.65 kW. The new, industrial control unit with modern real-time EtherCAT bus leads to better surface quality, precision and, above all, maximum speed, especially when milling nonprecious metal objects and implant constructions. Where there is planing, there are chips - and not just a few. For this reason, the suction guide within the Z-axis has been equipped with a wider nozzle geometry. This increases the cross-section by 30 %. This leads to a better extraction performance. The drain in the wet cell was enlarged to 100 mm to improve the coolant drainage. The improved surface coating and shaping reduces dirt accumulation and simplifies cleaning.

Tizian 6.0 series Industry meets dental technology



Tizian 6.0 series



Tizian 6.0 series - The new benchmark for your dental laboratory

The Tizian 6.0 milling machine series combines industrial production quality with a compact design and revolutionizes dental technology with outstanding precision, efficiency and speed.

Developed and manufactured in Germany, it meets the highest requirements of modern digital workflows.

With selectable advanced technologies such as 6-axis rotary milling, real-time calculations and innovative cassette loading, the Tizian 6.6 ensures impressive performance. Solid and solidly built to optimize vibrations and thus surface quality and precision. The 15-inch multitouch display with a specially developed, dentalspecific user interface and the option of remote control make operation intuitive and convenient.

The Tizian 6.0 series combines speed, precision and user-friendliness for your laboratory, all in just one machine.

Technical Features

- Unique acceleration up to 1 G linear
- Resulting acceleration of up to 1.7 G in XYZ space
- Dental milling spindle with up to 7.2 kW peak power
- Maximum nominal speed of 60,000 rpm
- Milling speed up to 8,000 mm/min, with CoCr up to 4,200 mm/min
- Optional with 6th axis: high-speed rotary milling of abutments with additional servo motor rotary axis at 120 rpm

That's pretty fast:

- 4 min. for an individual abutment*
- 18 min. for a fully anatomical crown in CoCr*
- 29 min. for a bridge with 3 units in CoCr*
- 29 min. for a three-unit secondary bridge*
- 22 min. for a splint with undercut*
- 140 min. for an individual full denture (upper & lower) with dental arch and base*

Request your individual offer now.

We look forward to your call. Tel. +49 (0) 6003 814-362

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 thirdparty 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

Software features:

- Processing of all common dental materials
- Modern multilayer display + color 3D display incl. colored undercut display
- Free choice of blank type (format)
- Automatic setting of bars (retaining bars)
- Optimized workflow for milling secondary constructions (allowance for re-milling is calculated directly)
- Multiple user accounts possible
- Simple creation of milling strategies via "drag and drop"
- Multicore-capable: Use up to 24 processor cores simultaneously
- Up to 40 % faster calculation incl. simulation
- All important open dental milling machines can be controlled (standardized blank management)
- Painter function, selection function for areas to be processed separately (e.g. only occlusion or margin with 0.3 mm fine finishing)
- 5-axis simultaneous machining and 3+2 machining to achieve undercuts (optionally also with 6-axis function)
- Simple selection of the milling option in the cavity 5-axis simultaneous, 3+2-axis, 3-axis
- Simple selection of wet/dry machining
- Specification of the milling cutter service life in meters
- Auto-nesting of individual operations
- Adapter/holder systems integrated: NT Trading, Medentika, Dess etc.



Everything at a glance: Objects are displayed simultaneously from different angles during nesting and can therefore be optimally aligned in the blank.



Simulation: Visual representation of the milled work based on the selected milling strategy and path calculation. Customize the simulation quality according to your needs.



Automatic fissure detection and insertion direction



Optimum nesting: Milling edge control, automatic joining of several objects and height optimization for optimum utilization of the blank.



Tizian Blanks 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.



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.

PEEK / Wax / Polyurethan / Polycarbonat

Below, you will find blanks in over 15 different materials. All these CAD/CAM blanks are subject to our strict and ISO-certified quality controls.

Tizian Blank 98 mm, PEEK		
ArtNo.	Strength	
220094	10 mm	
220091	16 mm	
220092	20 mm	

For the production of friction elements on telescopic work or slides.

Tizian Blank 98 mm, Polycarbonat		
ArtNo.	Strength	Color
220352	16 mm	clear
220355	16 mm	A1
220358	16 mm	A2
220360	16 mm	A3
220353	20 mm	clear
220356	20 mm	A1
220359	20 mm	A2
220361	20 mm	A3

For the fabrication of occlusal splints and temporary crowns and bridge frameworks in the anterior and posterior region (max. 12 months).

Tizian Blank Modell 98 mm, Polyurethan		
ArtNo.	Strength	
220040	18 mm	
220039	22 mm	

For the fabrication of dental models, including dies and model bases.

1	Tizian Blank 98 mm, PEEK White		
ArtNo	э.	Strength	
220095	,	10 mm	
220096		16 mm	
220097	7	20 mm	

Ideally suited for the fabrication of reduced crowns, bridges, telescopic primary and secondary crowns, crown caps, frameworks for veneering bridges with composite veneers as well as for secondary structures on bars.

Tizian Blank 98 mm, Wax			
ArtNo.	Strength	Color	
220034	10 mm	gray	
220035	16 mm	gray	
220036	20 mm	gray	
220037	25 mm	gray	
220071	16 mm	brown	
220070	20 mm	brown	
220030	10 mm	white	
220031	16 mm	white	
220032	20 mm	white	
220033	25 mm	white	

For the fabrication of tooth-colored crown and bridge wax frameworks. Suitable for the fabrication of all casting molds in the casting technique and ceramic press technique. Wax blank for the fabrication of mock-ups, residue-free burning wax.

	Tri Colour Wax Blank, tricolor		
ArtN	lo.	Strength	
22003	38	20 mm	

For the fabrication of tooth-colored crown and bridge wax frameworks. Suitable for the fabrication of all casting molds in the casting technique and ceramic press technique. Wax blank for the fabrication of mock-ups, residue-free burning wax, 3-layer color gradient.

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PMMA

Tizian Blank PMMA 10-Layer, 98 mm

ArtNo.	Strength	Color
224017	20 mm	A1
224016	20 mm	A2
224015	20 mm	A3
224018	20 mm	A3.5
224019	20 mm	A4
224020	20 mm	B1
224021	20 mm	B2
224022	20 mm	B3
224023	20 mm	C2
224024	20 mm	C3
224025	20 mm	D2
224026	20 mm	D3

Temporary crowns in the anterior and posterior region, temporary bridges in the anterior and posterior region with up to two consecutive pontics, implant-supported restorations. 10 layers ensure an esthetic shade gradient.

Tizian Blank PMMA Monochrom, 98 mm

ArtNo.	Strength	Color
224071	20 mm	A1
224072	20 mm	A2
224073	20 mm	A3
224074	20 mm	A3.5
224075	20 mm	A4
224076	20 mm	B1
224077	20 mm	B2
224078	20 mm	B3
224079	20 mm	B4
224080	20 mm	C1
224081	20 mm	C2
224082	20 mm	C3
224083	20 mm	C4
224084	20 mm	D2
224085	20 mm	D3
224086	20 mm	D4

Temporary crowns in the anterior and posterior region, temporary bridges in the anterior and posterior region with up to two consecutive pontics, implant-supported restorations. Monochrome shades according to Vita.

Tizian Blank PMMA Flex Pink

ArtNo.	Strength	Color
224050	20 mm	pink
224051	25 mm	pink

The material offers greater strength and toughness and is suitable for the fabrication of partial interim prostheses, e.g. model casting. Medical polyamide.

Tizian Blank PMMA Flex Pink E

ArtNo.	Strength	Color
224048	20 mm	pink
224049	25 mm	pink

The material offers higher strength and toughness and is suitable for the fabrication of partial interim dentures, e.g. model casting. Intense pink color. Medical polyamide.

Tizian Blank PMMA Splint		
ArtNo.	Strength	Color
220220	16 mm	transpa
220221	20 mm	transpa
220222	25 mm	transpa
220223	16 mm, 12 pc Bulk	transpa
220224	20 mm, 10 pc Bulk	transpa

Occlusal splints, drilling templates for navigated implant placement, lost molds for the casting technique.

Tizian Blank PMMA Transparent Splint 2.0

ArtNo.	Strength	Color
224046	16 mm, 24-er Bulk	transpa
224047	20 mm, 24-er Bulk	transpa

Occlusal splints, drilling templates for navigated implantation, lost molds for the casting technique.

Tizian flex splint comfort			
ArtI	No.	Strength	Color
22039	98	16 mm	transpa
22039	99	20 mm	transpa

Therapeutic splints, reflex splints, stabilization splints, positioning splints, flexible special plastic.

Tizian Blank Polyamid		
ArtNo.	Strength	Color
224042	16 mm, 24 pc Bulk	transpa
224043	20 mm, 24 pc Bulk	transpa

Medical polyamide: Temporary and permanent dentures and orthodontic solutions.

astron Clearsplint CAD/CAM, 98 mm		
ArtNo.	Strength	
220396	20 mm	

Clearsplint[®] CAD/CAM pro - The ideal solution for indications such as joint relief in bruxism, protection of veneering metal ceramics and implant restorations, readjustment of the bite, special thermoplastic resin, etc.

Titanium & Non-Precious Metal/CoCr

EUTIT	AN Grade 2
ArtNo.	Strength
224000	10 mm
224001	12 mm
224002	15 mm
224003	18 mm

Single crowns and bridge frameworks in the anterior and posterior region with corresponding cross-section; CTE value: $9,7 \ 10^{-6} K^{-1}$

EUTITAN Grade 4

ArtNo.	Strength
224004	10 mm
224005	12 mm
224006	15 mm
224007	18 mm
224008	8 mm

The material is suitable for:Model casting, primary and secondary bar work: CTE value: 9,7 $10^{\rm -6}K^{\rm -1}$

Tizian Blank Non-Precious Metal Fine, 98 mm		
ArtNo.	Strength	
220291	8 mm	
220292	10 mm	
220293	12 mm	
220294	13.5 mm	
220279	14 mm	
220295	15 mm	
220298	16 mm	
220296	18 mm	
220297	20 mm	
220299	25 mm	

For crowns and bridges. Custom-made products such as free-end bridges or attachment parts are the responsibility of the dentist (stability assessment). Free from tungsten. CTE value: (25-500°C): 14,5 10⁶K⁻¹

Tizian Blank Non-Precious Metal HIP*, 98 mm		
ArtNo.	Strength	
224060	8 mm	
224061	10 mm	
224062	12 mm	
224063	13.5 mm	
224064	14 mm	
224065	15 mm	
224066	16 mm	
224067	18 mm	
224068	20 mm	
224069	25 mm	

For crowns and bridges. Custom-made products such as free-end bridges or attachment parts are the responsibility of the dentist (stability assessment). HIP* refined and free of tungsten. CTE value: $(25-500^{\circ}C)$: 14,5 10⁻⁶K¹

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Tizian Blank Non-Precious Metal, 98 mm

ArtNo.	Strength
220105	8 mm
220100	10 mm
220101	12 mm
220118	13,5 mm
220102	15 mm
220117	16 mm
220103	18 mm
220104	20 mm
220119	24,5 mm

For crowns and bridges. Special designs, such as free-end bridges or attachment parts are the responsibility of the dentist (stability assessment). Contains tungsten. CTE value: (25-500°C): 14,1 10 $^6\mathrm{K}^1$

Matches

Tizian - a perfectly coordinated system

Calibration blank 98 mm for Tizian Cut 5 milling machine and Tizian 3.5 series (Tizian Cut 5.2 series)

Art.-No. 523489 523615 Strength 15 mm 10 mm

Spacer ring for mounting 8 mm blanks in the blank holder

ArtNo.	Strength
220106	8 mm



*HIP = Hot isostatically pressed



ENA CAD discs and blocks can be used to fabricate fully anatomical monolithics, inlays, crowns and suprastructures for functional, aesthetic rehabilitation also on implants. ENA CAD has a similar hardness in composite for restorations. It is not hard as zirconia, dental ceramic or other polymers and hybrids. This feature makes it easier to be milled and its physical characteristics are closer to natural teeth than other materials for restorations, allowing to better absorb the chewing stress and making it an ideal material for: inlays/onlays, crowns, implants overstructures.

Discs and blocks are available in the monolayer version in the following shades: UD0, UD0.5, UD1, UD2, UD3 and UD3.5. Shades UD1, UD2, UD3. UD3.5 *are available also in multilayer discs to offer additionally a better aesthetic integration especially in anterior area.

ENA CAD Disc Monolayer, 98 mm

ArtNo.	Strength	Color*
400150	10 mm	UD 0.5
400153	10 mm	UD 1
400156	10 mm	UD 2
400159	10 mm	UD 3
400162	10 mm	UD 3.5
400148	15 mm	UD 0
400151	15 mm	UD 0.5
400154	15 mm	UD 1
400157	15 mm	UD 2
400160	15 mm	UD 3
400163	15 mm	UD 3.5
400149	20 mm	UD 0
400152	20 mm	UD 0.5
400155	20 mm	UD 1
400158	20 mm	UD 2
400161	20 mm	UD 3
400164	20 mm	UD 3.5

Indications: Inlays, onlays, veneers, crowns and bridges (max. one

pontic) and partial crowns in CAD/CAM technology.

ENA CAD Disc Multilayer, 98 mm

	•	
ArtNo.	Strength	Color*
400140	15 mm	UD 1
400142	15 mm	UD 2
400144	15 mm	UD 3
400146	15 mm	UD 3.5
400141	20 mm	UD 1
400143	20 mm	UD 2
400145	20 mm	UD 3
400147	20 mm	UD 3.5

ENA CAD Block S (6 pieces)		
ArtNo.	Strength	Color*
400165	14.7 x 14.7 x 18 mm	UD 0.5
400166	14.7 x 14.7 x 18 mm	UD 1
400167	14.7 x 14.7 x 18 mm	UD 2
400168	14.7 x 14.7 x 18 mm	UD 3
400169	14.7 x 14.7 x 18 mm	UD 3.5



Note: The individual instructions for use of the respective blank type and any restrictions must be observed. *UD1 corresponds to A1; UD2 to A2; UD3 to A3; UD3.5 to A3; UD0 has no correspondence with with VITA it will be like an A0 that is to say lighter chroma than A1 ENA CAD Disc UD0 15 mm ENA CAD Disc UD1 15 mm ENA CAD Disc UD0,5 15 mm ENA CAD Disc UD3,5 15 mm ENA CAD Disc UD3 15 mm ENA CAD Disc UD2 15 mm

raditi **MAKE YOUR** P **WORKFLOW COMPLETE** 3D Printing ✓ Complete Digital Workflow fully integrated & perfectly coordinated **EVERYTHING** Tizian Milling Machines FROM V One contact person Tizian CAD/CAM SCHÜTZ 🔮 DENTAL **Economical and efficient** -High-Enc Material V From users for users EVENTS COURSE V

Pictures may vary from actual product appearance.



Solutions individually tailored to you



Tizian Blank MT +

The new Tizian Blank MT + has a new, less chromatic color concept, which impresses with a particularly soft color gradient without visible steps. Nevertheless, the material is approved for all physiologically safe indications. This makes the zirconia blank particularly suitable for the multi-layered finishing of dental restorations with individualization material.

The zirconia blank Tizian Blank MT + impresses with its material combination of 4Y/5Y zirconia. This combination ensures high stability and at the same time 49 % translucency in the incisal area.

The new blank is categorized in class 5 according to DIN EN ISO 6872 and can be used for most indications.

Let us convince you of our new zirconia blank Tizian Blank MT +. You will be impressed.

		100000000000000000000000000000000000000	
Upper layer 5Y	20 % (4 mm)	> 49 % T.	> 800 MPa
Transition layer 5Y/4Y	15 % (3 mm)		
Indisition layer 51/41	15 % (3 mm)		
Transition layer 5Y/4Y	15 % (3 mm)		
Bottom layer 4Y	35 % (7 mm)	45 % T.	> 1.150 MPa

Tizian Bl	ank MT +	
Strength	ArtNo.	S
A	1	
16mm	221220	16 mm
18mm	221360	18 mm
20 mm	221221	20 mm
25 mm	221222	25 mm
A	2	
16mm	221223	16 mm
18mm	221361	18 mm
20 mm	221224	20 mm
25 mm	221225	25 mm
A	3	
16mm	221226	16 mm
18mm	221362	18 mm
20 mm	221227	20 mm
25 mm	221228	25 mm
A3	3,5	
16mm	221229	16 mm
18mm	221363	18 mm
20 mm	221230	20 mm
25 mm	221231	25 mm
A	4	
16mm	221232	16 mm
18mm	221364	18 mm
20 mm	221233	20 mm
25 mm	221234	25 mm
В	1	
16mm	221235	16 mm
18mm	221365	18 mm
20 mm	221236	20 mm
25 mm	221237	25 mm
В	2	Transluc
16mm	221238	bridges tempera
18mm	221366	any rest
20 mm	221239	
25 mm	221240	



Strength

Tizian Blank MT + Shadeguide



The Tizian Blank Shadeguides and Shade Wedges provide an accurate shade reference by showing the actual blank shades. Determine the tooth shade in the dental practice with the shade guide and ensure a consistent shade match throughout the manufacturing process with the shade wedges.

221241 221367 221242 221243 221244 221368 221245 221245 221246 221246 221247 221247 221247 221247 221247 221249 221249 221250 221250 221250 221251 221251 221252 221253 221253 221253 221254 221255 221255 221255	ArtNo.
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221253 221371 221254 221255 4 221256 221372 221257	221252
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221256 221372 221257	221255
221372 221257	
221257	221256
	221372
221258	221257
	221258

Strength	ArtNo.	
D	2	
16 mm	221259	
18 mm	221373	
20 mm	221260	
25 mm	221261	
D	3	
16 mm	221262	
18 mm	221374	
20 mm	221263	
25 mm	221264	
D	4	
16 mm	221265	
18 mm	221375	
20 mm	221266	
25 mm	221267	
ON	111	
16 mm	221268	
18 mm	221376	
20 mm	221269	
25 mm	221270	
ON	112	
16 mm	221271	
18 mm	221377	
20 mm	221272	
25 mm	221273	
ON	11 3	
16 mm	221274	
18 mm	221378	
20 mm	221275	
25 mm	221276	

ranslucent zirconium dioxide for inlays, onlays, bridges (up to 16 units), crowns, Maryland pridges and much more, ceramic veneerable. CTE value: 10,0 x 10⁻⁶K⁻¹ at 20–500 °C / sintering emperature: 1450 °C Note: The individual instructions for use of the respective blank type and





Description Art.-No. Shadeguide Tizian Blank MT + 221104 Color wedges Tizian Blank MT + 221103

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Tizian Blank MT E

Thanks to its innovative chromatic shade concept, the new zirconia blank Tizian Blank MT E impresses with a particularly soft, continuous shade gradient. At the same time, the material meets all requirements for physiologically safe indications. Only a few individualizations are necessary in the finishing process. Tizian MT E combines the advantages of 4Y and 5Y zirconia to create an outstanding material combination. This synthesis not only offers high stability, but also an impressive translucency of up to 49 % in the incisal area. As a class 5 material in accordance with DIN EN ISO 6872, the blank is suitable for all indications. Experience the exceptional quality of the Tizian Blank MT E - let yourself be inspired!

Your benefits:

- Particularly gentle on antagonists
- Translucency gradient from 45 % to 49 %
- Smooth shade gradient, without visible steps

5Y 20%(4	mm)	> 49 % T.	>
C. C. C. C. C.			
nout visible ste	ps	Pictures may var	y i
45 % to 49 %		order c)r

回流線回

www.schuetz-dental.com Blanks and much more simply order online.

Pictures may vary from actual product appearance.

<u>Tizian</u> Blank

DENTAL

SCHÜTZ



Tizian Blank MT E

Strength	ArtNo.	
A	1	
16mm	221280	
18mm	221337	
20 mm	221281	
25 mm	221282	
A	2	
16mm	221283	
18mm	221338	
20 mm	221284	
25 mm	221285	
A	3	
16mm	221286	
18mm	221339	
20 mm	221287	
25 mm	221288	
A3	3,5	
16mm	221289	
18mm	221340	
20 mm	221290	
25 mm	221291	
A4		
16mm	221292	
18mm	221341	
20 mm	221293	
25 mm	221294	

Strength	ArtNo.			
В	1			
16 mm	221295			
18 mm	221342			
20 mm	221296			
25 mm	221297			
В	2			
16 mm	221298			
18 mm	221343			
20 mm	221299			
25 mm	221300			
В	3			
16 mm	221301			
18 mm	221344			
20 mm	221302			
25 mm	221303			
c	1			
16 mm	221307			
18 mm	221346			
20 mm	221308			
25 mm	221309			
C2				
16 mm	221310			
18 mm	221347			
20 mm	221311			
25 mm	221312			

Tizian Blank MT E Shadeguide





The Tizian Blank Shadeguides and Shade Wedges provide an accurate shade reference by showing the actual blank shades. Determine the tooth shade in the dental practice with the shade guide and ensure a consistent shade match throughout the manufacturing process with the shade wedges.

Strength	ArtNo.			
c	3			
16 mm	221313			
18 mm	221348			
20 mm	221314			
25 mm	221315			
D	2			
16 mm	221319			
18 mm	221350			
20 mm	221320			
25 mm	221321			
D	3			
16 mm	221322			
18 mm	221351			
20 mm	221323			
25 mm	221324			
NV	V1			
16 mm	221328			
18 mm	221353			
20 mm	221329			
25 mm	221330			

Translucent zirconium dioxide for inlays, onlays, bridges (up to 16 units), crowns, Maryland bridges and much more, ceramic veneerable. CTE value: 10,0 x 10⁻⁶K⁻¹ at 20–500 °C / sintering temperature: 1450 °C Note: The individual instructions for use of the respective blank type and any restrictions must be observed.



Description	ArtNr.
Shadeguide Tizian Blank MT E	221107
Color wedges Tizian Blank MT E	221106

Multidisc High Translucent Multilayer compact

cubic zirconia, with a translucency of 49 %

Strength	ArtNo.	Strength	ArtNo.
A	1-3	B 3	-4
14 mm x 98 mm	224090	14 mm x 98 mm	224102
18 mm x 98 mm	224091	18 mm x 98 mm	224103
20 mm x 98 mm	224092	20 mm x 98 mm	224104
25 mm x 98 mm	224093	25 mm x 98 mm	224105
A	3-4	C 1	-3
14 mm x 98 mm	224094	14 mm x 98 mm	224106
18 mm x 98 mm	224095	18 mm x 98 mm	224107
20 mm x 98 mm	224096	20 mm x 98 mm	224108
25 mm x 98 mm	224097	25 mm x 98 mm	224109
В	1-3	C 3	-4
14 mm x 98 mm	224098	14 mm x 98 mm	224110
18 mm x 98 mm	224099	18 mm x 98 mm	224111
20 mm x 98 mm	224100	20 mm x 98 mm	224112
25 mm x 98 mm	224101	25 mm x 98 mm	224113

Strength	ArtNo.	
D	2-4	
14 mm x 98 mm	224114	
18 mm x 98 mm	224115	
20 mm x 98 mm	224116	
25 mm x 98 mm	224117	
OI	OM 1-3	
14 mm x 98 mm	224118	
18 mm x 98 mm	224119	
20 mm x 98 mm	224120	
25 mm x 98 mm	224121	

priti® multidisc ZrO2 Blanks, 98mm

The high-density zirconium dioxide blanks stand for defined sintering shrinkage and defect-free milling results and thus form the basis for an esthetically high-quality and cost-efficient result. The cross-batch color accuracy and homogeneous coloring are based on pritidenta's in-house manufacturing expertise "Made in Germany"! **Advantages of discs colored in multicolor:** highly esthetic, fast, simple, reproducible

Strength	ArtNo.	Strength	ArtNo.	Strength	1
	A	B2 20 mm	221043		D
A1 16 mm	221030	B3 16 mm	221044	D2 16 mm	2
A1 20 mm	221031	B3 20 mm	221045	D2 20 mm	22
A2 16 mm	221032	B4 16 mm	221046	D3 16 mm	22
A2 20 mm	221033	B4 20 mm	221047	D3 20 mm	22
A3 16 mm	221034		с	D4 16 mm	22
A3 20 mm	221035	C1 16 mm	221048	D4 20 mm	22
A3,5 16 mm	221036	C1 20 mm	221049	C	м
A3,5 20 mm	221037	C2 16 mm	221050	OM1 16 mm	22
A4 16 mm	221038	C2 20 mm	221051	OM1 20 mm	22
A4 20 mm	221039	C3 16 mm	221052	OM2 16 mm	22
	В	C3 20 mm	221053	OM2 20 mm	22
B1 16mm	221040	C4 16 mm	221054	OM3 16 mm	22
B1 20 mm	221041	C4 20 mm	221055	OM3 20 mm	22
B2 16 mm	221042				

Indications: Highly esthetic monolithic, fully anatomical crowns, partial crowns and bridges with up to 14 units, inlays, onlays, veneers and abutments; highly recommended for partially or fully veneered highly esthetic restorations. WAK 10 · 10⁶ · K⁻¹.

DO YOU ALREADY KNOW OUR MACHINE PRESENTATIONS?



Highly recommended for partially or fully veneered highly esthetic restorations.	
Multidisc Extra Translucent Multilayer compact	

Indications: Highly esthetic monolithic, fully anatomical crowns, partial crowns and bridges up to three units, inlays, onlays and veneers.

cubic zirconia, with a translucency of 45 % Strength Art.-No. Strength Art.-No. A 1-3 B 3-4 14 mm x 98 mm 224122 14 mm x 98 mm 224134 18 mm x 98 mm 224123 18 mm x 98 mm 224135 224124 20 mm x 98 mm 25 mm x 98 mm 224125

224125	1011111 × 9011111	224133
224124	20 mm x 98 mm	224136
224125	25 mm x 98 mm	224137
	C	1-3
224126	14 mm x 98 mm	224138
224127	18 mm x 98 mm	224139
224128	20 mm x 98 mm	224140
224129	25 mm x 98 mm	224141
	C	3-4
224130	14 mm x 98 mm	224142
224131	18 mm x 98 mm	224143
224132	20 mm x 98 mm	224144
224133	25 mm x 98 mm	224145

Strength	ArtNo.
D	2-4
14 mm x 98 mm	224146
18 mm x 98 mm	224147
20 mm x 98 mm	224148
25 mm x 98 mm	224149
ОМ	1-3
14 mm x 98 mm	224150
18 mm x 98 mm	224151
20 mm x 98 mm	224152
25 mm x 98 mm	224153

1

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Indications: Monolithic, fully anatomical and partially or fully veneered crowns and bridges up to 16 units as well as individual abutments for the anterior and posterior region on abutments and implants. WAK $10 \cdot 10^{-6} \cdot K^{-1}$.



A 3-4

B 1-3

14 mm x 98 mm

18mm x 98mm

20 mm x 98 mm

25 mm x 98 mm

14 mm x 98 mm

18mm x 98mm

20 mm x 98 mm

25 mm x 98 mm

priti®MPguide ZrO₂

The priti®MPguides multicolor High Translucent and multicolor Extra Translucent show you the positioning in the blank. Use this tool to specify the tooth shade.

The guides enable you to assign the two shade systems – VITA classical[®] or VITA System 3D-Master[®] – for determining the patient's tooth shade.

Artdesc.	ArtNo.
priti®ShadeGuide ZrO2 Extra Translucent	220880
priti®ShadeGuide ZrO2 Multi Translucent	221068

Contact us now! Experience our milling machines live and in action!

Translucent in 16 VITA shades and white, with a translucency of 40 %

B

B

B4

Strength

12 mm 14 mm 16 mm 18 mm 20 mm

12mm 14mm 16mm 18mm

12mm 14mm 16mm 18mm

20 mm

25 mm

12mm

14mm 16mm

18mm 20mm

12mm

14mm

16mm 18mm

12 mm 14 mm 16 mm 18 mm 20 mm

Strength	ArtNo.				
A1					
12 mm	220703				
14 mm	220704				
16 mm	220705				
18 mm	220706				
20 mm	220707				
А	2				
12 mm	220709				
14 mm	220710				
16 mm	220711				
18 mm	220712				
20 mm	220713				
25 mm	220714				
А	3				
12 mm	220715				
14mm	220716				
16 mm	220717				
18 mm	220718				
20 mm	220719				
25 mm	220720				
AB	3,5				
12 mm	220721				
14mm	220722				
16 mm	220723				
18 mm	220724				
20 mm	220725				
25 mm	220726				
A4					
12 mm	220727				
14 mm	220728				
16 mm	220729				
18 mm	220730				
20 mm	220731				

	-	
ArtNo.	Strength	ArtNo.
		C3
220733	12 mm	220769
220734	14 mm	220770
220735	16 mm	220771
220736	18 mm	220772
220737	20 mm	220773
		C4
220739	12 mm	220775
220740	14 mm	220776
220741	18 mm	220778
220742	20 mm	220779
		D2
220745	12 mm	220781
220746	14 mm	220782
220747	16 mm	220783
220748	18 mm	220784
220749	20 mm	220785
220750		D3
•	12 mm	220787
220751	14 mm	220788
220752	16 mm	220789
220753	18 mm	220790
220754	20 mm	220791
220755		D4
	12 mm	220793
220757	14 mm	220794
220758	18 mm	220796
220759	20 mm	220797
220760	w	/hite
	12 mm	220799
220763	14 mm	220800
220764	16 mm	220801
220765	18 mm	220802
220766	20 mm	220803
220767	25 mm	220804

Indications: Highly esthetic monolithic, fully anatomical crowns, partial crowns and bridges with up to 16 units, superstructures; highly recommended for partially or fully veneered, highly esthetic restorations. WAK $10 \cdot 10^{-6} \cdot K^{-1}$.

Matches



Tizian – an optimally coordinated system

Description	Art. no.
zirconium dioxide spheres 2 mm, 200 g	670923
PTC ring 15 pieces, for calibrating the sintering furnace	670970



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Blanks and much more Simply order online.

Opac	ue in 16 VITA	shades and white,
Strength	ArtNo.	Strength
	A1	E
4 mm	220664	14 mm
20 mm	220665	20 mm
	42	(
4mm	220666	14 mm
20 mm	220667	20 mm
	43	
4mm	220668	14 mm
20 mm	220669	20 mm
A	3,5	
4mm	220670	priti"multidisc ZrO+
20 mm	220671	
	44	
4mm	220672	
20 mm	220673	

Indications: Crowns and bridges with up to 16 units, partially or fully veneered framework constructions, superstructures. Recommended for covering discolored stumps or metal constructions. WAK 10 · 10⁻⁶ · K⁻¹.

Are you looking for an inexpensive alternative? Then we have just the thing for you!

Esthetic and reproducible results in 7 VITA shades and white, with a translucency of 40 %. You save time and money.

Properties: Highly esthetic monolithic, fully anatomical crowns, partial crowns and bridges up to 16 units, superstructures. Recommended for partially or fully veneered esthetic work.

Tiziar	n Blank 5.0 trans	lucent 98 mm, ZrO₂	Tiziar	n Blank 5.0 trans	lucent 98 mm, ZrO ₂
ArtNo.	Strength	Color	ArtNo.	Strength	Color
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

Indications: Highly esthetic monolithic, fully anatomical crowns, partial crowns and bridges up to 16 units, superstructures; highly recommended for partially or fully veneered esthetic restorations. WAK 10 · 10⁻⁶ · K⁻¹

translucency 35 %

	ArtNo.	
2		
	220674	
	220675	
2		
	220676	
	220677	
2		
	220678	
	220679	

Strength	ArtNo.					
White						
12mm	220697					
14mm	220698					
16mm	220699					
18mm	220700					
20 mm	220701					
25 mm	220702					



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Request your individual offer now.

We look forward to your call. Tel. +49 (0) 6003 814-362







Tizian milling cutter

Tested quality for your safety.

Our range of milling cutters: Thanks to the precisely manufactured milling cutters, you get exactly the result you planned in advance on the PC. The CoCr milling cutters for the Tizian 3.5 & 5.5 series in particular are optimally matched to our Tizian CAM Prosoftware in terms of cutting performance and therefore ensure perfect results with a long service life and a high level of reliability.

Get the most out of your machine!

We have expanded our range of milling cutters with new speed milling cutters. Now you have the choice of high-speed milling or increased tool life.

When machining non-precious metals, it is very important to optimally coordinate the milling strategy, infeed, cutting geometry and coating. The cutting behavior of the material also has a major influence on the service life of the tools.

In two years of development, we have succeeded in optimizing this process. Tizian Speed milling cutters are optimally matched to our Tizian NEM blanks in conjunction with the milling strategies of Tizian CAM Pro. This complete package enables the Tizian 3.5 Pro series and Tizian 5.5 to double tool life and reduce roughing times by 49 % with our pre-milling cutters.



Milling cutter overview: **Tizian Speed milling cutters** Suitable for Tizian 5.5 & Tizian

3.5 series

Ø 6,0 mm

CoCr

Art.-Nr. 525359

SCHÜTZ DENTAL

Art.-Nr. 525360

Ø 6,0 mm

CoCr





SCHÜTZ DENTAL

Illustrations may vary. The details shown are examples, we will be happy to provide you with a concrete offer All information without guarantee. Subject to errors, changes and prior sale.











max.

15 mm

CoCr

max.

20 mm

Ø 6,0 mm

Titanium

CoCr

Art.-Nr. 523927

SCHÜTZ DENTAL

SCHÜTZ DENTAL

max.

20 mm

Ø 6,0 mm

Titanium

CoCr

Art.-Nr. 523928

Ø 6,0 mm

Calibration

_

Art.-Nr. 523929

Milling cutter overview:

Tizian 1.5 Pro/2.5 Loader Pro





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Blanks, milling cutters and much more. Simply order blanks online.





Freedom when milling and grinding.

Thanks to a machining angle of up to 360°/130° (A-axis/B-axis), the system is able to master even demanding tasks with ease. The 10 tool positions also increase the flexibility of the new Tizian 1.5 Pro.

Professional solution for high demands

The powerful spindle is a particular highlight of the system. With an output of 750 watts and up to 100,000 rpm, the high-frequency spindle offers an optimum ratio of power, speed and precision. performance. This has a positive effect on every restoration.

No matter what material* is used, the Tizian 2.5 Loader Pro produces your restorations with precision. Milling zirconia and acrylics is just as easy as grinding glass-ceramic blocks and processing prefabricated abutments.





Illustrations may vary. The details shown are examples, we will be happy to provide you with a concrete offer. All information without guarantee. Subject to errors, changes and prior sale. *see millable materials on p. 42



Illustrations may vary. The details shown are examples, we will be happy to provide you with a concrete offer All information without guarantee. Subject to errors, changes and prior sale.



Intraoral scanner

Tactile scanner

Laboratory scanner

Our scanners

Drive on three tracks - the optimum hybrid solution

Experience our unique "Complete Digital Workflow".

Combine the precision of a tactile scanner with the speed of an optical scanner. Take advantage of the right scanner depending on the indication: scan accurately and quickly with a light scanner, while tactile scanning allows you to capture your model even more precisely with a scanning needle. Benefit from an excellent fit with tactile scanning using the Renishaw scanner.

Achieve an optimal fit of your telescope work and use precision as your competitive advantage! Achieve highquality restorations for your patients with reliable and reproducible results. Combine tactile scanning with the speed and accuracy of a Tizian Scan Touch or Tizian Smart-Scan Plus 3.0 stripe light scanner for your laboratory. This system, specially developed for dental technology requirements, impresses with its simple handling and open interfaces. Thanks to their accuracy and speed, our structured light scanners are particularly suitable for your model situations with large-span implant work and/or bridges. The Tizian Smart-Scan Plus 3.0 and Tizian Scan Touch ideally complement the high-precision tactile scanning of your Renishaw scanner.

iTero Lumina $^{\rm m}$ - The next generation of intraoral scanning technology.

iTero Lumina - The next generation of digital scanning technology. With iTero Multi-Direct Capture[™] technology, the scanner enables intraoral imaging. With its effortless scanning process and impressive visualization, this system sets new standards in practice performance.

A 3 times larger field of view and a maximum depth of field of 25 mm ensure that complex areas such as the palate, edentulous areas, partially erupted teeth and crowding can be detected more easily.



Request your individual offer now.

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Tizian Creativ RT CAD-Software

Includes numerous modules and can be expanded where possible.

High-End CAD-Software in "real time".

The Tizian Creativ RT CAD software is a high-end modulation software that is not only state of the art, but is constantly evolving and therefore offers you maximum future security.



Telescop1-2



Crowns, Bridge, Inlay

The basic software at a glance

- Telescopes
- Attachments (editable)
- Automatic generation of garlands
- Mirroring instead of modeling
- Display of contact points
- Automatic transfer of a situ scan
- Inlays, onlays and Maryland bridges
- Can be used with compatible touchscreens
- Open interfaces for open intraoral cameras
- cameras and import of open STL data
- Free export of STL data
- Automatic adaptation of proximal and opposing jaw
- Crowns, bridges (fully anatomical, reduced),
 Offset copings, overpress copings

Even the basic package of the software offers you extensive possibilities. Depending on your needs, this can be supplemented with additional modules. Your specialist consultant will be happy to advise you, or call us at +49 (0) 6003 814 362.

Your Benefits:

- Work fast: You work with a high-performance workstation, quad core, 64 bit*, which is specially optimized for this software.
- Flexibility: You can change almost every single point of the prepared workpiece, even retrospectively.
- The ability to concentrate on the essentials: Depending on the restoration, essential parameters are selected automatically.
- A high degree of creativity: You can customize the automatically generated object with a wide range of virtual tools.

Ask for the special brochure on our Tizian scanners and the Tizian Creativ RT software.



Intraoral scanner The easy introduction to digital dentistry





Your benefits thanks to perfectly coordinated systems Tizian JMA Optic System by zebris + iTero Lumina[™]:

- You increase the proportion of private services in your practice
- You produce safe + function-oriented prosthetics
- You reduce your grinding times
- You benefit from the complete integration into our
 "Complete Digital Workflow"





Easy to use

- Fast recording of the real
 temporomandibular joint movements
- Precise, scientifically based
- Open data interface
- Economical, high ROI

• Easy handling

scanner

- Fast recording, powder-free
- Precise intelligent scan recording
- Open data interface
- Economical, high ROI



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Technical data	Tizian 1.5 Pro	Tizian 2.5 Loader Pro	Tizian 3.5 Pro / Pro+	Tizian 3.5 Loader Pro / Pro+	Tizian 3.5 XPro / Loader XPro	Tizian 5.5 Loader	Tizian 6.5 & 6.6
Number of axes	5	5	5	5+1	5+1	5+1	5+1
number of tool slots	10	16	20		20	20	20
Pmax~ / rotation speed max.	0,75 kW / 100.000 rpm	0,75 kW / 100.000 rpm	Pro: 1 kW / 60.000 rpm Pro+: 2,6 kW / 60.000 rpm		- 3 kW / 60.000 rpm	3,65 kW / 60.000 rpm	7.2 kW / 60.000 rpm
Axis drive	Microstep drives	Microstep drives	AC servo drives with absolute encoder		AC servo drives with absolute encoder	AC servo drives with absolute encoder	Bosch Rexroth Servomoto with absolute encoder
Material changer Number of blank slots	Manual 1-fold blank pick-up	Automatic up to 7 Blank slots	Manual 1-fold blank pick-up	Automatic up to 12 blank slots	Automatic up to 15 blank slots	Automatic up to 15 blank slots	Automatically 10 blanks per change box
Zero-point system	√(manual)	✓	 ✓ ✓ 		√ √	√ √	 ✓ ✓
Dry machining	 √√ 	$\checkmark\checkmark$	√√		√ √	√ √	√√
Wet machining	 √√ 	$\checkmark\checkmark$	$\checkmark\checkmark$		√ √	√ √	√ √
Blank processing 98 / 98,5 mm	√√	$\checkmark\checkmark$	$\checkmark \checkmark$		 ✓ √ 	√ √	√√
Block processing (CAD/CAM-Blöcke)	√√	$\checkmark\checkmark$	$\checkmark \checkmark$		√ √	√√	√√
Basic setup	Cast aluminum	Cast aluminum	Polymer concrete / steel		Polymer concrete / steel	Polymer concrete / steel	Steel body mineral cast machine bed
Dimensions	422 x 556 x 644 mm	790 x 724 x 1413 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	785 x 1800 x 1250 mm	780 x 1291 x 1913 mm
Weight	75 kg	120 kg	ca. 250 kg / 210 kg	ca. 205 kg / 255 kg	ca. 250 kg / 270 kg	ca. 500 kg	ca. 650 kg
Materials	•				·	·	
Zirconium dioxid / aluminium oxide	 ✓ √ 	$\checkmark\checkmark$	$\checkmark \checkmark$		 ✓ ✓ 	√ √	√ √
PMMA / acrylics / PEEK / composite / wax	 ✓ √ 	$\checkmark\checkmark$	√√		 ✓ ✓ 	√ √	√ √
Glass ceramics / hybrid ceramics	 √√ 	$\checkmark\checkmark$	√ √	✓	√ √	√ √	√ √
Sintered metall	✓	✓	✓		√ √	 ✓ ✓ 	$\checkmark \checkmark \checkmark$
Non-precious alloys	✓	-	√√		√ √	✓✓✓ High performance	✓✓✓ High performance
Titanium	✓	-	√√		√√	√ √	<i>√√√</i>
Indications	· · · · · ·				<u>`</u>		·
Copings / crowns / inlays / onlays	 ✓ √ 	$\checkmark\checkmark$			 ✓ ✓ 	√ √	√ √
Bridges with up to 3 pontics	 √√ 	$\checkmark\checkmark$	√√		√ √	√ √	√ √
Bridges with up to 14 pontics	 ✓ √ 	$\checkmark\checkmark$	√√		 ✓ ✓ 	√ √	√ √
Telescopes	✓ (PEEK)	✓ (PEEK)	√√		√ √	√ √	<i>√√√</i>
Therapeutic splints (bite splints)	 √√ 	$\checkmark\checkmark$	√√		 ✓ ✓ 	√ √	√√
Tooth models	 √√ 	$\checkmark\checkmark$	√√		√ √	√ √	√√
Frameworks		-	√√		√√	√ √	<i>√√√</i>
Abutments on adhesive titanium basis	✓	-	√√		√√	√ √	<i>√√√</i>
Prefabricated abutments made of titanium/ CoCr	✓	✓	√√		√ √	~~	✓ ✓ ✓ TOP with 6. Axis
One-piece abutments (zirconium dioxide, acrylics)	✓	✓	< √ √		~~	~~	<i>√√√</i>
One-piece abutments (titanium, CoCr)	-	-	$\checkmark \checkmark$		√ √	√√	~~~
Bar constructions / one-piece implant- supported abutment bridges	-	-	\checkmark		√ √	✓✓✓ High performance	$\checkmark \checkmark \checkmark$ High performance

✓✓✓ High performance ✓✓ highly suitable ✓ suitable







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