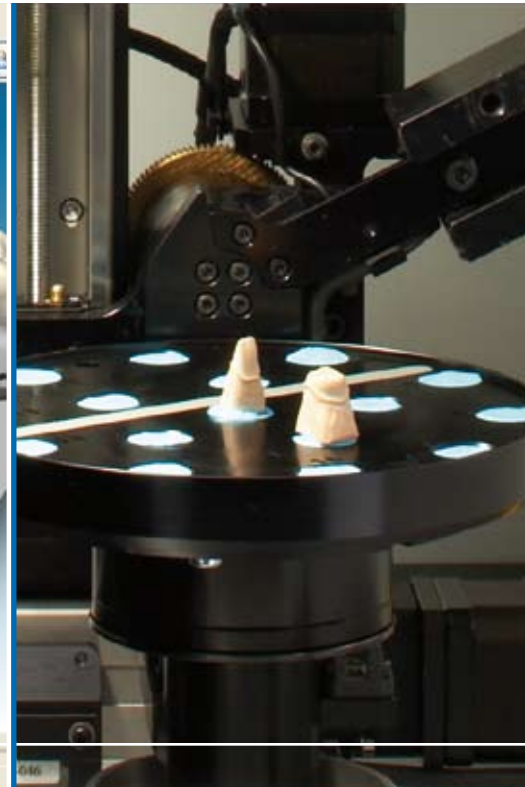
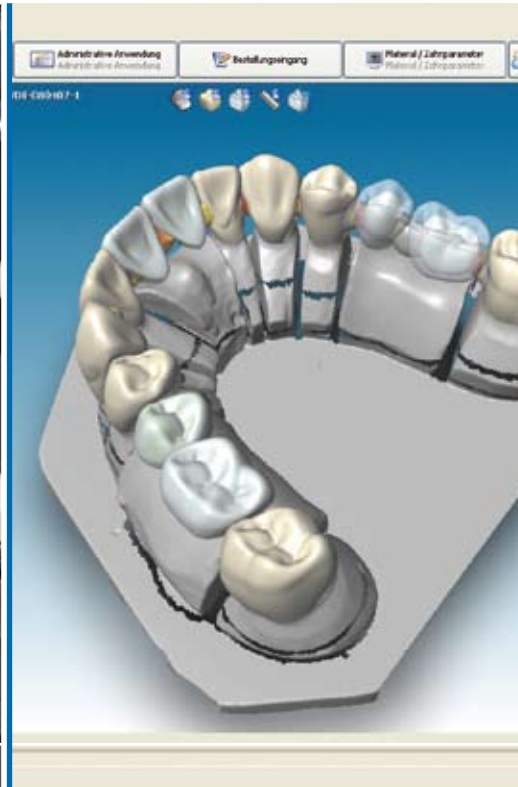
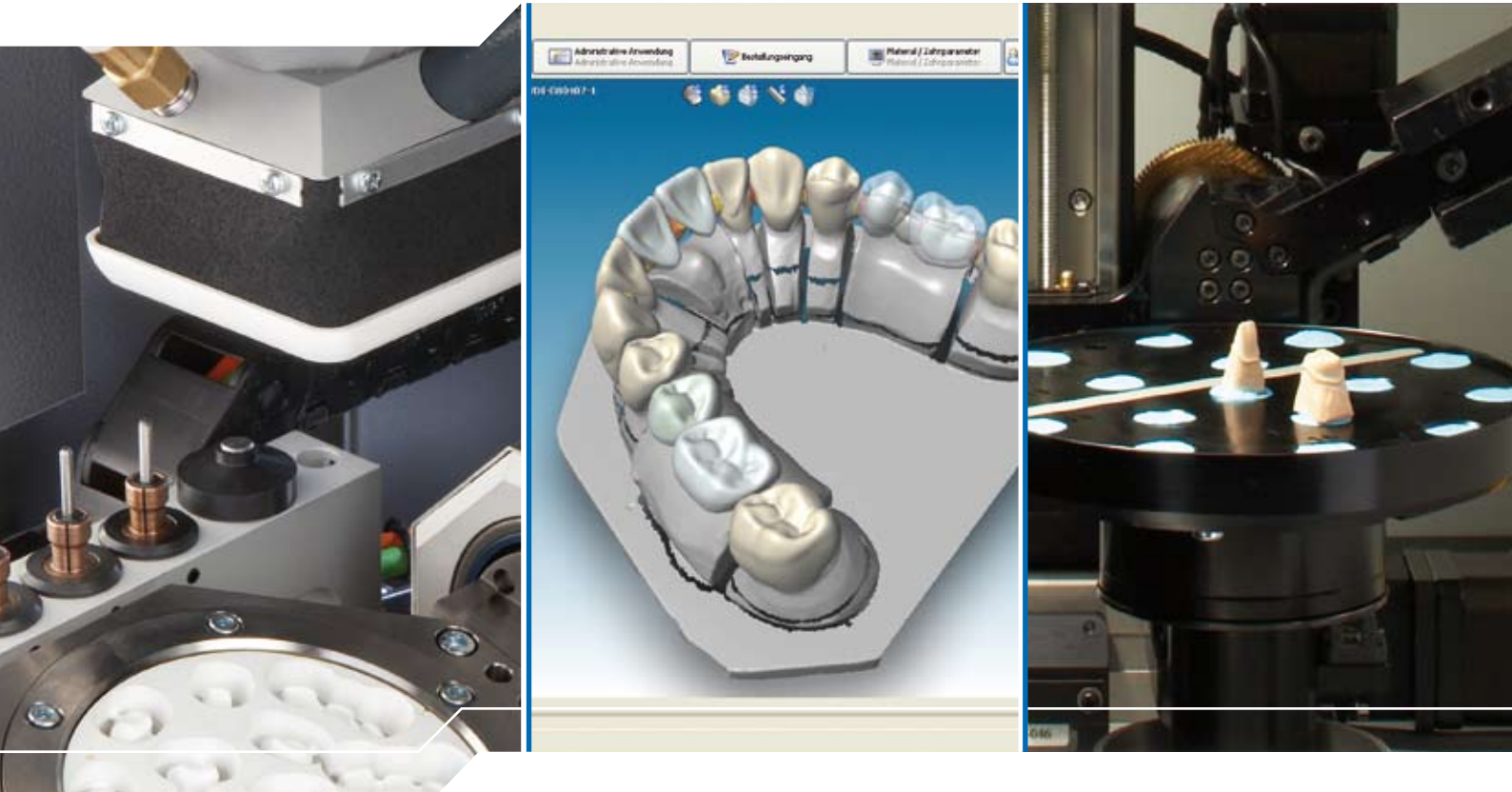


WIELAND



ZENOTECH System components

WIELAND



ZENOTEC System components

With the ZENOTEC System, WIELAND offers you a complete CAD/CAM system, outstanding technical support and advanced dental expertise. All system components are perfectly harmonized and subject to constant technical improvement to ensure that they are always state of the art. WIELAND's combination of customer care and sophisticated system solutions ensure that your dental lab or practice can proceed with confidence on the path to digitalization, progress and competitiveness. You will notice the difference: www.wieland-dental.de

EXPECT THE DIFFERENCE! BY WIELAND.

ZENOTEC Scan S 100

The ZENOTEC Scan S 100 with its innovative multi-die scanning function can scan up to 16 elements in a single operation without changing the dies. When modelling with the open-interface ZENOTEC Cad application, you can start designing your restoration while the scan is in progress. The five-axis system keeps the work constantly in perfect focus and therefore delivers scans of consistently outstanding quality. The ZENOTEC Scan S 100 and the ZENOTEC Cad software application are perfectly matched to each other. You will be amazed by this sophisticated and stable technology.



Together with the number of axes, the large interior capacity already fulfils the technical requirements for later applications.

Technical specifications

Scanner	ZENOTEC Scan S 100	ZENOTEC Scan S 50	3Shape D 700
Dimensions in cm (width x height x depth)	46 x 46 x 38.5	33 x 39 x 41	34 x 29 x 33
Weight	33 kg	20 kg	14 kg
Workpiece rotation	5 axes	3 axes	3 axes
Impression scan	✓ Add-on	–	✓ Add-on
Laser Triangulation	✓	✓	✓
Data export	STL	STL	STL, DCM, PTS
FireWire connection	✓	–	–
USB port	✓	–	✓
Voltage	110 V/230 V	110 V/220 V	110 V/230 V
Single dies			
Accuracy	< 20 µm	< 20 µm	< 20 µm
No. of scan points	100,000	100,000	150,000
Scan time per die	approx. 50 sec.	approx. 50 sec.	approx. 45 sec.
Whole model scan			
Accuracy	< 50 µm	< 50 µm	< 50 µm
No. of scan points	1,000,000	1,000,000	1,000,000

3Shape D 700

The 3Shape D 700 scanner features a rotation homing function and a greater scan volume. All surface points are fully registered by moving the work through all three spatial axes. The software automatically identifies any areas that have not been scanned and scans the missing areas again from a different angle. The cut model is fixed to the scanner adapter with modelling clay. The data is processed by the scanner so that it can be modelled using the 3Shape DentalDesigner™ CAD program.



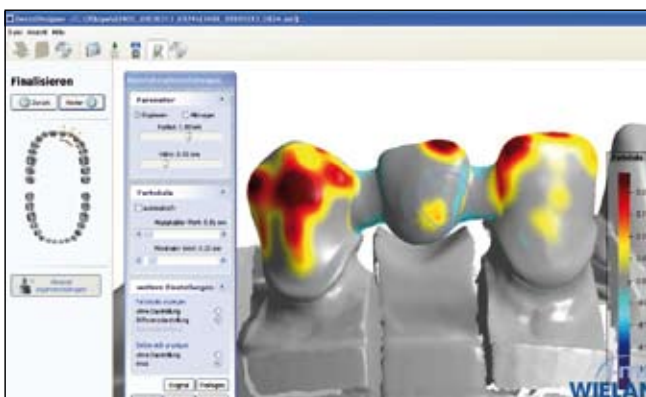
All surface points are fully registered by moving the work through all three spatial axes.

ZENOTEC Cad

ZENOTEC Cad is a flexible and user-friendly open-interface 3D CAD dental software application suitable for the design of all conventional dental restorations. The intuitive menu system guides the user quickly and easily towards perfect results. Material management, clinic and patient management systems are integrated into the application, as is the import of data from additional 3D scanners. The open interface data export provides a free choice of milling partners. When used in combination with the ZENOTEC Scan S 100, scanning and design can take place simultaneously. The areas of application range from crown and bridge work, including fully anatomic crowns and bridges, to primary crowns and frameworks for the computer-aided overpress process. All modellations can be calculated back from the virtual anatomy, which automatically ensures that the design is compatible with the framework.



Material management, clinic and patient management are fully integrated, as is the facility to the import data from further 3D scanners.



A powerful and flexible software suite for crown and bridge work.

Technical specifications

Software	ZENOTEC Cad	DentalDesigner™
Suitable scanners	ZENOTEC Scan S 100 ZENOTEC Scan S 50	3Shape D 700
Simultaneous scanning and modelling	✓	-
Clinic management system	✓	✓
Material management system	✓	✓
Range of indications	Bridges up to 14 elem. Telescopic crowns Wax-ups Fully anat. crowns Fully anat. bridges Red. crowns + bridges CAO crowns + bridges Veneers Clinical crowns Indiv. abutments (in combination with S 100)	Bridges up to 14 elem. Telescopic crowns Wax-ups Fully anat. crowns Fully anat. bridges Red. crowns + bridges CAO crowns + bridges Veneers Bars Inlays/Onlays
Optional	-	indiv. abutments
Prep. margin identification	Automatic	Automatic
Default design	Automatic	Automatic
Occlusal bite	Model Bite registration	Model Bite registration
Characterisation	Wax knife custom shaping	Wax knife custom shaping
Data export	CAM 3.0, 3.2, 4.0 Open-interface STL	CAM 3.0, 3.2, 4.0 Open-interface STL
Support	ZENOTEC Hotline	ZENOTEC Hotline
Remote maintenance	via Netviewer	via Netviewer

DentalDesigner™

Once you have scanned your models, dies, bites or wax-ups, you can start to actually design the restoration. This is achieved by using the DentalDesigner™ software application. DentalDesigner™ requires only a minimum of PC skills. The application guides you step by step through the program. All functions can be performed with the mouse. Default designs are called up automatically, but of course you can change or adapt them as you wish. A wide range of further options are available at the touch of a button to enable you to fully exploit your dental skills to produce a functionally and aesthetically perfect restoration.

ZENOTEC 4030 M1

The ZENOTEC 4030 M1 is the ideal production system for all users who prefer dry milling. And it makes no compromises in terms of productivity or quality. One of its main advantages is its compact design. The modular system allows components and functions to be added as required. The machine is fully automatic and can be left to run overnight. Two processing stations work on two blanks in a single program. The use of precision linear units guarantees greater durability and precision.

ZENOTEC 4820 M1

The ZENOTEC 4820 M1 milling machine is ideally suited to large-scale production. It features two processing areas which can be used for both both wet and dry milling. Since WIELAND operates a policy of continuous testing, development and improvement which also extends to existing materials, a new milling strategy (NP maxi dry) has been developed. Specifically, this strategy enables ZENOTEC NP discs to be milled without coolant. This new dry milling strategy also gives an even better fit and a time saving of approx. 15 – 20 minutes per unit.

ZENOTEC 2100

The compact ZENOTEC 2100 benchtop model is the ideal CAD/CAM solution for small to medium-sized labs. In addition to saving space, it offers the proven precision of the ZENOTEC System. It can be used to mill wax, acrylics and ceramic oxides and can handle approx. 60 elements per day. This milling machine features a high-frequency spindle operating at up to 100,000 rpm and an integrated blower and extractor. It also has a tool shank holder in the form of a pneumatic direct tool changeover system. The entire operating and control electronics consisting of regulated DC motor technology with outputs for NC axes, safety circuit and spindle control module, is integrated into the machine housing.



Technical specifications

Milling machine	ZENOTEC 2100	ZENOTEC 4030 M1	ZENOTEC 4820 M1
Dimensions in cm (width x height x depth)	70 x 72 x 65	81 x 82 x 82	150 x 185 x 120
Weight	110 kg	155 kg	950 kg
Milling stations	1 (dry milling)	2 (dry milling)	2 (dry milling)
Drive type (maintenance-free)	DC servo motors	AC servo motors	AC servo motors
Spindle (rpm)	10,000–100,000	10,000–100,000	10,000–60,000
Tool positions	5	8	20
Voltage	230 V/110 V	230 V/110 V	230 V/110 V
Minimum air pressure	min. 7 bar	min. 7 bar	min. 7 bar
Remote maintenance	✓	✓	✓
Production capacity per day, approx.	approx. 60 elements	approx. 120 elements	approx. 120 elements
Materials	ZENOTEC Zr _{Bridge} , Zr _{Crown+} , Al _{Crown} , Pro _{Fix} , PMMA _{cast} , Wax	ZENOTEC Zr _{Bridge} , Zr _{Crown+} , Al _{Crown} , Pro _{Fix} , PMMA _{cast} , Wax	ZENOTEC Zr _{Bridge} , Zr _{Crown+} , Al _{Crown} , Pro _{Fix} , PMMA _{cast} , Wax, NP, Ti, Ti _{pur}
Indication	Bridges up to 14 elements	Bridges up to 14 elements	Bridges up to 14 elements
Automatic night-time operation	✓	✓	✓
Autom. tool length measur. with broken tool detection	✓	✓	✓
Automatic numerical control of all 4 axes	✓	✓	✓

EXPECT THE DIFFERENCE! BY WIELAND.

As a major supplier of dental system solutions, WIELAND embodies both tradition and progress in matters of dental products and technology. Since our company was founded in 1871, we have stayed true to our corporate philosophy of combining tradition, innovation and quality with the best in customer care. Today, our core competencies and key strengths lie in the forward-looking integration of technologies and materials for dental prosthetics. This ensures that patients can trust in the quality of their dentures, and our partners in dental practices and laboratories can continue with confidence on the path to digitalisation and greater competitiveness.

WIELAND offers a wide range of products and services from CAD/CAM technologies and dental alloys to veneering ceramics and electroforming. Thanks to our worldwide presence and international network of regional branches and local agencies, WIELAND is never far away, and your contact person can always be located via the Internet.

www.wieland-international.com

WIELAND Dental+Technik GmbH & Co. KG
Schwenninger Straße 13, 75179 Pforzheim, Germany
Fon +49 72 31/37 05-0, Fax +49 72 31/35 79 59