

making work easy



Equipment

Work is easier if the equipment that you use on a daily basis is simple to operate and delivers results of consistent quality.



Instruments

Instruments for everyday use must be easy to take care of and convenient to use. If they help to save time too, they make work easier.



Materials

Materials must fulfill a specific purpose, always supporting optimal results for your work. They are well-designed, making work easy.

In focus: Solutions for enthrallingly good work

"making work easy" – that's our promise. Renfert develops sophisticated solutions for your daily work, tailored perfectly to the needs of your laboratory and dental office. That's because everything we do is geared towards one specific goal: making your work easy, every day. Our products are convenient to use, reliable, and easy to maintain, and also deliver optimal results – simply, for a stress-free working day. After all, that's what "making work easy" is all about: for everybody who wants to keep success simple."

Sören Hug, Management at Renfert GmbH



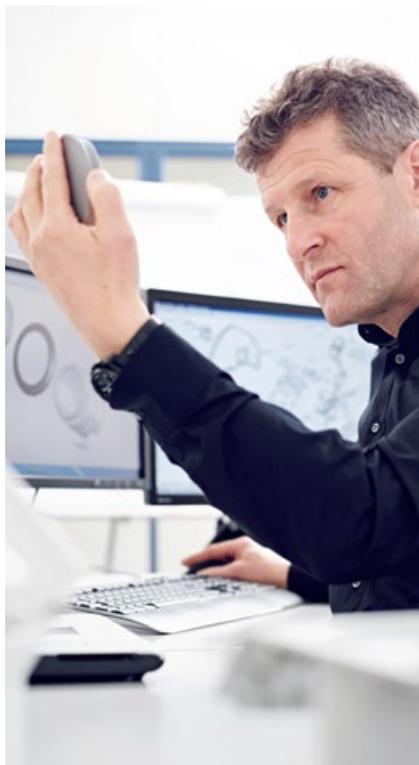
The dental industry has been our home for almost a century. Renfert develops and produces high-quality equipment, instruments and materials for dental offices and dental laboratories since 1925.

Our goal: To create solutions that simplify, not complicate, the working life of dentists and dental technicians. That's why all of our products are consistently developed in line with our motto „making work easy“. The result is intuitive products for which we are renowned and appreciated. And however different our solutions are, they all have one thing in common: they are functional, reliable and extremely durable.

All of this is handled by our owner-managed company's around 200 employees in Hilzingen near Lake Constance. From here we supply specialist dealers in more than 120 countries worldwide.

→ Fig. below

Good development work results in products that improve the working experience



Every successful product is also a joint effort

By users – for users: The key to developing and manufacturing our requirements-oriented products is that we know the daily dental routine from the ground up. So that we can continue to inspire with new approaches in the fast-moving world of dentistry, we are in constant communication with a number of users in dental offices and laboratories. After all they know best what they need for a simple and successful daily routine. And that's precisely why all Renfert products are functional solutions with real added value for work in the dental office and laboratory.

→ Fig. below

Precise products are created only with the most exact planning: for example Renfert sandblasters



Laboratory equipment

Clever products for the daily laboratory routine



Equipment for the dental office

Clinical products for the dental office



Orthodontic equipment

Special products for orthodontics



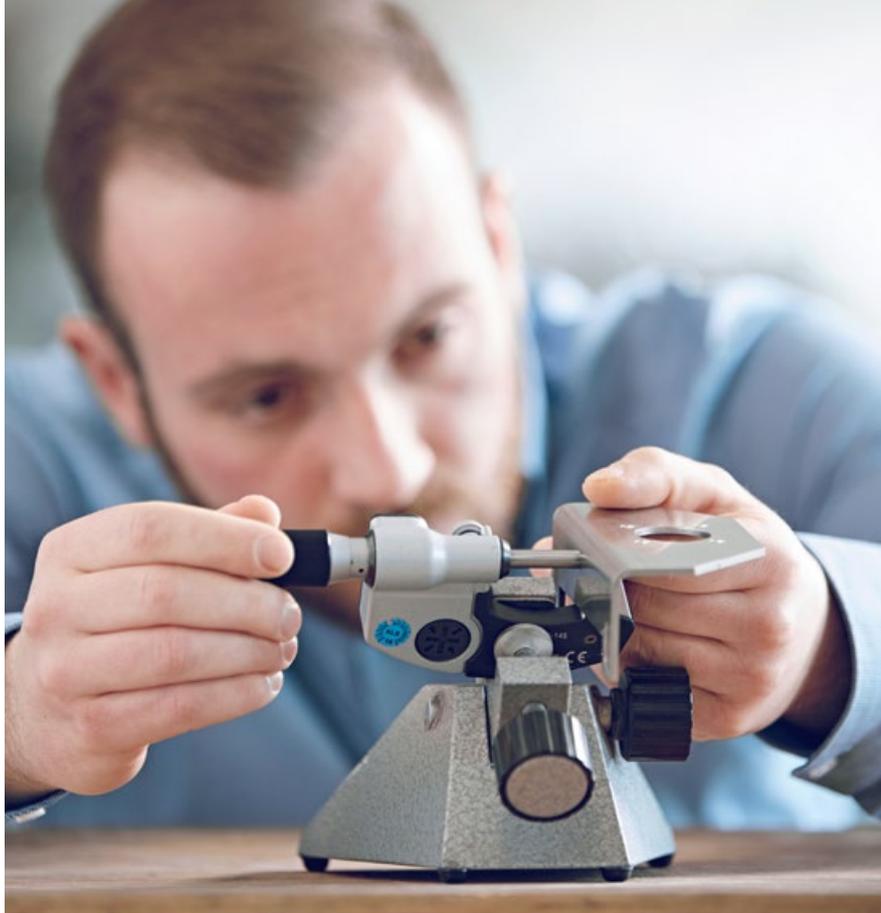
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The Customer Success Program

The Renfert Customer Success Program is the service you can rely on if something isn't working correctly.

We shall help find a solution as part of the Renfert guarantee. This is something you can rely on. Guaranteed!



Renfert

**WORKFLOW
GUARANTEE**

3 year guarantee*

10 year spare parts guarantee

The activity guarantee

The Customer Success Program includes

- + 3 year Renfert Workflow guarantee**
The benefits you can enjoy: 3 year guarantee on Renfert devices!*
- + 10 year spare parts guarantee**
All Renfert products are very durable. Therefore we guarantee a high availability of spare parts. Renfert guarantees that original spare parts will be available for every device, for the duration of at least ten years after purchase.
- + The activity guarantee**
Renfert service is outstandingly efficient. In cooperation with Renfert dealers and certified service partners worldwide, a strong, competent and passionate team is focused on minimizing possible failures in the laboratory. This ensures economic efficiency.
- + Maintenance service**
Optimal product performance significantly increases service life and reduces the likelihood of failures. Inquire about our attractive service offerings!
- + Device hire service**
This is another area where you rely on us. Enjoy the benefits of our device hire service to minimize downtimes. Just get in touch!

* Wear parts excluded.
This assumes regular maintenance by authorized personnel.



We provide the following support at www.renfert.com:

- Self-help videos and support videos
- Repair instructions
- Operating instructions
- Spare parts lists
- Drawings
- FAQs
- Remote desktop help (only available during service hours and following successful software download and installation)
- Helpline and live chat
- RIC (Renfert Chatbot)

In addition to the Customer Success Program, we also provide a free support package with every purchased Renfert device. Because in the end, only one thing matters: that you're satisfied, as quickly as possible.

[direct to 24/7/365 support >](#)



"Trust is based on knowing that you always have a contact partner."



**CUSTOMER-SUCCESS
& SUPPORT-CARD**



Support +49 7731 8208-777



support@renfert.com

Renfert

making work easy

How do you know what makes work easier?

making work easy



Easy work, clear direction.

Renfert products offer a wide range of advantages that users will appreciate every day for years to come. You can identify them quickly, for example using these six icons:



tool included



easy use



silent



perfect
view



compact



smart
control



silent

These products operate very quietly.

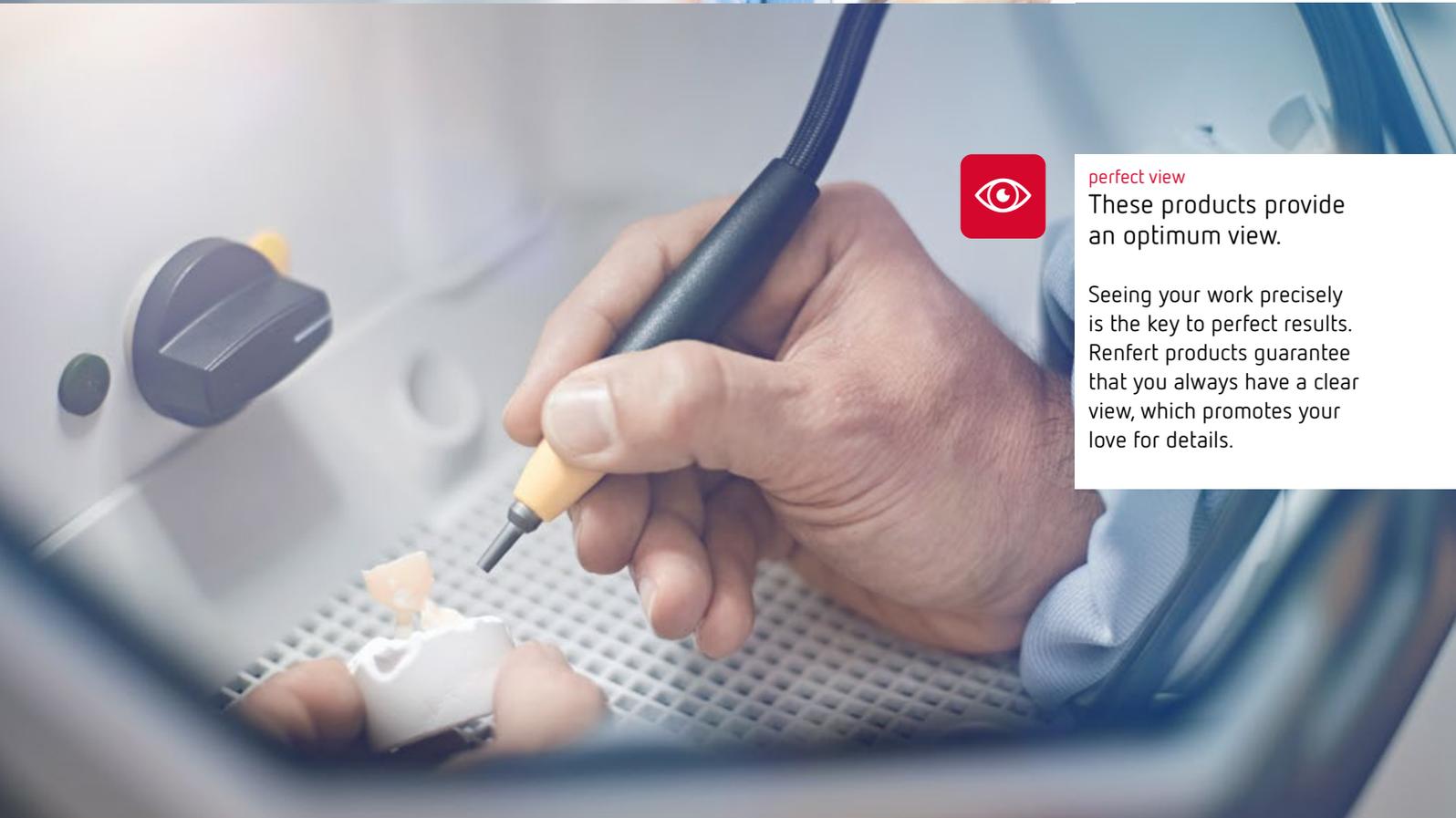
Even an active workstation with many units does not have to be loud. Renfert products keep things quiet - disturbance through high noise levels are a thing of the past.



compact

These products are particularly compact.

You simply work more effectively with a feeling of freedom. Renfert products are designed to save space – and thus provide more room to ensure that your lab environment is not overcrowded with excessively large units.



perfect view

These products provide an optimum view.

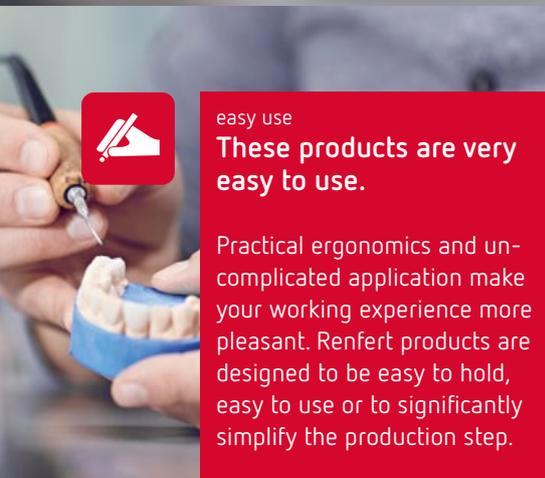
Seeing your work precisely is the key to perfect results. Renfert products guarantee that you always have a clear view, which promotes your love for details.



easy use

These products are very easy to use.

Practical ergonomics and uncomplicated application make your working experience more pleasant. Renfert products are designed to be easy to hold, easy to use or to significantly simplify the production step.



tool included

These products come with their own tool.

It is simply great if you don't have to search for the appropriate tool. Because everything you need to work with the unit, clean it or replace parts, is right there.

Renfert CONNECT
SIMPLY. SMART.

Make your daily work more convenient and efficient with the Renfert CONNECT app. Thanks to our app, digital operation of your Wi-Fi-enabled Renfert equipment has never been easier.



EASY view+

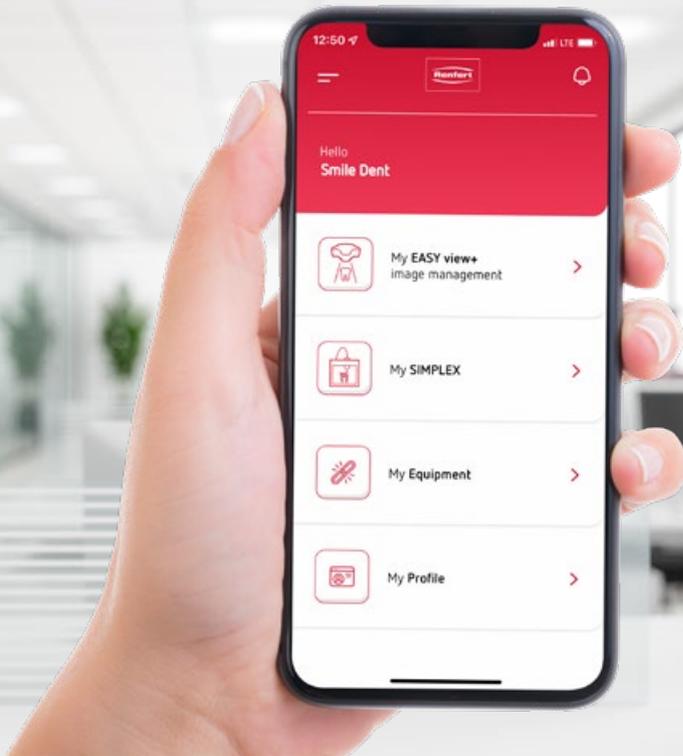
Use image management to rename, sort and share patient images from EASY view+.



smart control

You can connect these products to your mobile devices via WiFi.

Use it to perform device updates quickly and easily. Find help quickly to set up your device. FAQs & support videos are digitally available where you need them - at your workplace via the mobile device.



SIMPLEX

Download the latest SIMPLEX software, whether it's the slicer or device software.



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Get even more product
info at

renfert.com/p/*



*Insert required
article number.
Done!

3D Filament printing

This is what makes work easier

- Plug and Print system
- Dentistry-specific slicer software
- Preinstalled slicer settings for selected dental objects
- No time-consuming determination of correct parameters through trial and error
- Low error potential thanks to defined, high-quality filaments for selected indications
- No post-processing of printed objects (cleaning, curing, etc)
- Low printing and material costs



compact



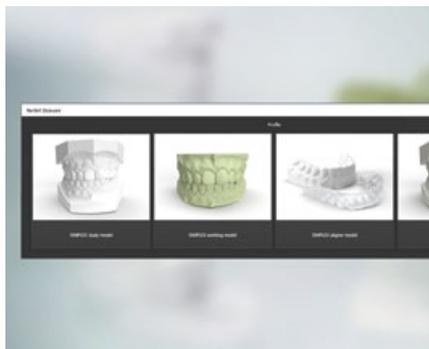
smart control



Eco-friendlier and efficient printing

The technology is both simple and ingenious: Filament printing (FDM/FFF process) is an additive process that uses fused filaments. These are thermoplastics in wire form assembled on a reel. The material softens under the influence of heat. A nozzle then builds up the 3D print object layer by layer on the print bed. Done!

The filaments used in the SIMPLEX 3D filament printer system are mainly bioplastics that can be recycled and industrially composted without the need for any complex processes. This is how you can achieve a 3D-printed object with high-quality and health-friendly materials.



Simple and intuitive

The SIMPLEX 3D filament printer system was developed specifically for the requirements of orthodontic laboratories and offices. It is very simple to use: Whether orthodontic office or laboratory - the optimized material profiles offer a standardized application and thus simple and reliable operation without prior knowledge. For: all important orthodontic printing parameters are already pre-installed. This makes getting started with 3D printing easy, intuitive and reliable.



Economical and reliable

The three components of the system - the printer, the dental-specific slicer software and the appropriate filaments - are perfectly matched to each other and to the requirements in the orthodontic field. The result: consistently reproducible and reliable results.

NEW SIMPLEX

3D filament printer

SIMPLEX is a dental 3D-filament-printer. With the slicer software, which was specially developed for the dental sector, you can print models, which do not pose a risk to health, easily and reliably via the "Plug and Print" concept. The SIMPLEX 3D-filament-printer-system covers the entire range of orthodontic model fabrication. With its high dimensional accuracy, the SIMPLEX 3D-filament-printer ensures consistent, reproducible results. The 3D models produced do not require any post-processing.

Advantages

- Easy to use thanks to "Plug and Print" concept.
- Level resolution up to 50 µm grants precise results.
- Pleasant working with low noise level ≤ 49 dB.

Details

- SIMPLEX consisting of: SIMPLEX 3D filament printer, SIMPLEX sliceware, SIMPLEX print, SIMPLEX study model, Renfert CONNECT app.
- Process reliability thanks to filament monitoring system and automated troubleshooting.
- Intuitive touchscreen navigation.
- Safety thanks to closed building chamber, lockable door, and removable cover.
- Heatable print bed: optimal adhesion and simple cleaning.
- Simple handling thanks to removable print platform.
- Wi-Fi (currently EU and USA) for print control.
- Working with filaments that are harmless to health.



SIMPLEX sliceware is already installed with presets for orthodontic use

Technical data

Use	Fused Filament Fabrication (FFF)
Permissible mains voltage	90–264 V
Permissible mains frequency	50/60 Hz
Temperature range (Nozzle)	180–260 °C // 356–500 °F
Temperature range (Print bed)	50–110 °C // 122–230 °F
Layer resolution	≥ 50 µm
Number of extruders	Single
Type of extruder	All-Metal Hotend
Printing speed	50–200 mm/s
Position precision	4 x 4 x 2 µm
Weight (empty)	~16,3 kg // ~35.94 lbs
Dimensions (W x H x D) (Build volume)	250 x 200 x 200 mm // 10 x 8 x 8"
Dimensions (W x H x D) (Housing)	406 x 350 x 385 mm // 16 x 14 x 15.2"
Dimensions (W x H x D) (Device, exterior size)	415 x 500 x 635 mm // 16.3 x 19.7 x 25"
Diameter (Nozzle)	0,4 mm // 0.0016"
Diameter (Filament)	1,75 mm // 0.0689"

Ordering information

SIMPLEX with Wifi	No. 17350000
SIMPLEX	No. 17351000
SIMPLEX filaments	Page 13

NEW SIMPLEX Filaments

Filament for orthodontic model fabrication

The high-quality special filaments are suitable for the specific requirements of the dental industry: they have excellent mechanical and physical properties and do not pose a risk to health. The high consistency and dimensional accuracy of the filaments enable detailed print quality. You receive a defined filament selection designed for the respective area of application.

Advantages

- Work at a high level with high quality materials.
- Work reliably with a selection of filaments matched to the indication area and printer.
- Time-saving and health-friendly fabrication of 3D models – no post-processing, no cleaning, no curing.

Details

- 100% free from irritants – no harmful vapors during printing process.
- Biofilament is recyclable and industrially compostable.
- Excellent mechanical and physical printing properties such as layer and print bed adhesion.
- High-quality, process-stable printing and detailed print result thanks to uniform diameter (1.75 mm) and roundness along the entire length of the filament.
- No post-processing with chemicals and curing unit necessary.
- Sustainable, environmentally friendly, and cost-effective printing.
- Colorfast, UV-resistant.
- Made in Germany.



Designed for complete orthodontic model fabrication



The model can be used as usual without the need for any post-processing

Accessories

3D Filament printing

	SIMPLEX study model	<p>The bio filament SIMPLEX study model offers high detail reproduction and sharpness for precise planning and diagnostic models. Promotes pleasant working, thanks to having no irritating components. Does not produce unpleasant vapors during the printing process, is recyclable and industrially compostable. Printing temperature: 190–230°C For SIMPLEX</p>	Bio filament Ø 1.75 mm, 1 x 800 g, white	No. 17350100
	SIMPLEX working model	<p>The biofilament SIMPLEX working model is designed for the digital production of working models and offers high detail reproduction. Promotes pleasant working, thanks to having no irritating components. Does not produce unpleasant vapors during the printing process, is recyclable and industrially compostable. Printing temperature: 190–230°C For SIMPLEX</p>	Bio filament Ø 1.75 mm, 1 x 800 g, viridian green	No. 17350200
	SIMPLEX aligner model	<p>The special filament SIMPLEX aligner model is tailored to the special requirements of aligner production and the thermoforming technique*. Promotes pleasant working, thanks to having no irritating components. Generates no unpleasant vapors during the printing process. No post-processing, no annealing required. Printing temperature: 235–255°C *excluded: Zendura Clear Aligner & Retainer Material For SIMPLEX</p>	Heat-resistant special filament Ø 1.75 mm, 1 x 800 g, white	No. 17350300
	SIMPLEX multi-use model	<p>The bio filament SIMPLEX multi-use model provides a natural surface effect with its high hard-gypsum content. Offers high detail reproduction. Promotes pleasant working, thanks to having no irritating components. Does not produce unpleasant vapors during the printing process, is recyclable and industrially compostable. It can be optimally worked with rotary instruments or a scalpel. Printing temperature: 185–220°C For SIMPLEX</p>	Plaster filament Ø 1.75 mm, 1 x 800 g, plaster white	No. 17350600

NEW EASY view+

Dental Visual Communicator

Renfert EASY view+, the Dental Visual Communicator for digital object viewing. Digital visual capture allows you to better visualize, edit and share your daily work. In addition to classic live viewing with three zoom levels, you can spontaneously generate images at the touch of a button. Create videos via the direct interface to your laptop and share e.g. patient cases simultaneously with others. Simply use your familiar programs to edit the image files.

Advantages

- Three magnification levels (4x, 15x and 20x), for comprehensive or detailed/microscopic viewing.
- Connection to your laptop* via an online meeting tool makes case discussion with the dentist easy and efficient.
- Free choice of monitor** allows for an individual adaptation to your needs.

Optional accessories: Renfert CONNECT *** (Renfert CONNECT stick and Renfert CONNECT app for integration into the network and wireless data synchronization between EASYview+ data storage and app).

* System requirements: Microsoft Windows® 10 and higher; Intel® Core™ i3 and higher | Apple® macOS® 10.15 and higher; Intel® Core™ i5 and higher.

** 3D function is only possible via Renfert monitor; 2D monitor with resolution 1920x1080 (Full HD).

*** Renfert CONNECT stick is not available in all regions. Please, check availability here: www.renfert.com/connect

Details

- Free movement in 4x mode: significant height differences (approx. 70 mm) do not lead to any loss of sharpness.
- Image storage in the common JPEG image format.



Additional lower magnification for improved comprehensive viewing

Technical data

Permissible mains voltage	120–230 V 100–240 V
Permissible mains frequency	50/60 Hz
Power consumption	12 W
Power consumption (Monitor)	25 W
Video and screen resolution	Full-HD (1920 x 1080)
Focus distance (from camera lens to object)	430 mm // 17"
Magnification	4-fold 15-fold 20-fold
Intensity of lighting	40000 lx
Memory capacity USB stick	4 GB
Number of storable images, approx.	600
Max. video sequence length, approx.	~15 min
Weight (Head)	0,7 kg // 1.54 lbs
Weight (incl. swivel arm)	2,1 kg // 4.63 lbs
Weight (Monitor incl. power supply)	3,65 kg // 8 lbs

Ordering information

EASY view+ 100-240 V	No. 24004000
EASY view+ 3D 100-240 V	No. 24003000
EASY view 3D monitor	No. 900037808
Renfert CONNECT stick	No. 24100000
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perfect
view

Mobiloskop S

Microscope

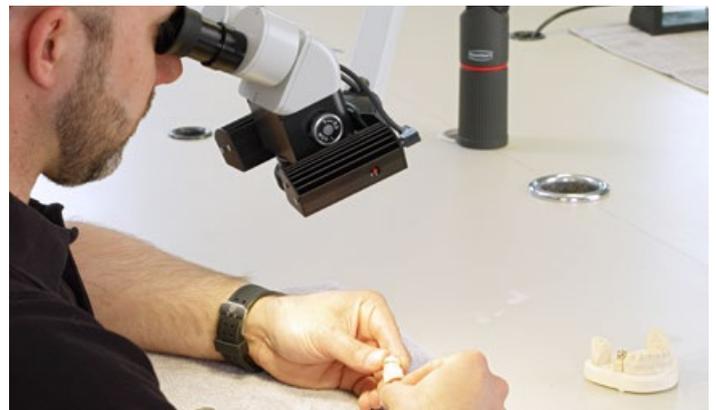
One microscope for up to 4 workplaces! The 360° swivel-mounted support arm allows a single microscope to be utilized from several workplaces for detail control and precision work.

Advantages

- 5 and 10 times magnification provides maximum precision.
- Distortion-free coupled with uniform sharpness in the entire viewing field.
- Large viewing field with a high depth of focus and marginal definition.

Details

- Ergonomic and relaxed seating position thanks to the high working position of 150 mm.
- Dioptric compensation enables a three-dimensional view.
- Optional: LED-illumination with 9000 Lux/18 white light LEDs.



High marginal definition due to aspherical lenses

Technical data

Magnification	5 x 10 x
Weight (incl. swivel arm)	~1,8 kg // ~4 lbs

Ordering information

Mobiloskop S with support arm	No. 22000400
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Accessories

Microscopes & Visualization systems

	Support arm with universal clamp	Stable support arm with three hinges, which can be adjusted and fixed to any position. Can be used for up to 4 workplaces due to swivel-mounted support arm with a radius of 850 mm (33.49"). Workplace attachment with clamp for table-top thicknesses of 18–74 mm (0.71–2.92"). For Mobiloskop S	1 piece	No. 22000401
	Stand with screw clamp	Max. bench top thickness: 26 mm (1.02") For EASY view+, Mobiloskop S	1 piece	No. 22000420
	LED illumination, for Mobiloskop, 100–240 VAC	Perfect illumination of the viewing field and maximum control of detail using 9000 Lux. Optimum light tone ensures color fidelity Observation of all objects using 18 long-life white light LEDs. Shadow-free, contrast-rich illumination via a 15° lighting angle. For Mobiloskop S	1 piece	No. 22005000
	EASY view 3D Converter 3D/2D	Converts a 3D-signal to a 2D-signal required when connecting an additional output device (e.g. monitor, projector). Suitable for Europe excluding GB, IT, DK, FL, CH. For EASY view+	1 piece	No. 24000501
	EASY view 3D HDMI-Video-Recorder	For recording video and sound sequences. Suitable for Europe excluding GB, IT, DK, FL, CH. For EASY view+	1 piece	No. 24000502
	EASY view 3D HDMI-Splitter	Transmits (unaltered) 3D or 2D signals required when connecting an additional output device (e.g. monitor or projector). Suitable for Europe excluding GB, IT, DK, FL, CH. For EASY view+	1 piece	No. 24000503
	EASY view 3D HDMI-Video-Recorder with multi voltage power adapter	For recording video and sound sequences. Suitable worldwide except European countries with CEE 7/3 socket. For EASY view+	1 piece	No. 24000504
	EASY view 3D HDMI-Splitter with multi voltage power adapter	Transmits (unaltered) 3D or 2D signals required when connecting an additional output device (e.g. monitor or projector). Suitable worldwide except European countries with CEE 7/3 socket. For EASY view+	1 piece	No. 24000505
	EASY view 3D – 3D glasses	For EASY view+	1 piece	No. 900037809

Extraction units for CAM systems

This is what makes work easier

- High reliability even with heavy use
- High suction power
- Very long motor running time
- Protection of the CAM unit
- Cleanliness and quietness
- Secure communication with your CAM unit



silent



compact



A plus for your milling devices – a plus for the health of your staff

The large quantities of dust from milling, and fine dust particles, put a lot of pressure on your CAM unit – they must be extracted quickly and effectively. This not only protects the sensitive components of your CAM unit, it's also good for the health of your staff. The Renfert CAM extraction units extract dust effectively out of your milling device, collecting it reliably with a highly efficient filter system. This maintains the functionality and the value of your CAM unit as well as ensuring clean air in the laboratory.



Intelligent connection of the extraction unit and CAM unit

The interface ensures that your CAM unit and our extraction unit understand each other perfectly: up to 8 signals can be exchanged between them. For example, the Renfert CAM extraction units can indicate to your milling device when a filter is due to be changed. Or you can simply define that breaks in the milling process should be used for cleaning the fine filter. All you need to do is to connect the extraction unit to your CAM device, and off you go!



Automatic filter cleaning for maximum suction power

Nothing is more annoying than a used-up dust bag after processing just a few milling blanks. The suction power drops significantly and extraction from the milling chamber is no longer sufficient. That's why Renfert CAM extraction units work differently: with a dust collector instead of a bag, and with automatic filter cleaning. The advantages: high suction power at all times and, incidentally, no follow-up costs for dust bags.

SILENT powerCAM EC

Extraction unit for CAM systems

Powerful, bag-free extraction unit with automatic filter cleaning and EC motor technology for heavily used CAM units.

Advantages

- Bi-directional communication between extraction unit and CAM unit thanks to the PLC interface.
- Low operating noise of max. 54.3 dB (A).
- Reliable production process through brushless EC motor technology (guaranteed runtime of 5000 operating hours).

Details

- High volume flow of approx. 4000 l/min.
- No follow-up costs due to bag-free dust collection.
- Safe disposal of fine milling dust with the help of a disposal bag.



Tool-free filter and motor change possible in a few minutes

Technical data

Permissible mains voltage	220–240 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Suction turbine power	1610 VA (230 V) 1440 VA (120 V) 1250 VA (100 V)
Volume flow (max.)	3984 l/min // 2.34 ft ³ /s
Max. depression	257 hPa 262 hPa 255 hPa // 3.73 psi 3.8 psi 3.7 psi
Filter quality	Class M according to EN 60335-2-69
CAM interface	RJ 45 socket
Number of suction hoses	1
Sound pressure level (LpA) (at max. volume flow)	54.3 dB (A)
Weight (empty)	~18 kg // ~39.7 lbs
Dimensions (W x H x D)	270 x 535 x 540 mm // 10.6 x 21.1 x 21.2"
Ø suction fittings interior	42 mm // 1.65"
Fill level dust collector	~7 l // ~1.85 gal

Ordering information

SILENT powerCAM EC, 220–240 V	No. 29390000
SILENT powerCAM EC, 120 V	No. 29391000
SILENT powerCAM EC, 100 V 50/60 Hz	No. 29392000
Interface cable Type A for vhf, 5 m	No. 29340005
Interface cable Type B for Roland DG, 5 m	No. 29340006
Interface cable Type C for imes-icore, 5 m	No. 29340008
Interface cable Type D for Amann Girrbaach, 5 m	No. 29340009
Interface cable Type E for Yenadent, 5 m	No. 29340010
Interface cable Type F for Zirkonzahn, 5 m	No. 29340011
Interface cable Type F for Zirkonzahn + C14 adapter, 5 m	No. 29340012
Interface cable Type G for vhf, 5 m	No. 29340013
Hoses, mufflers and adapters	Page 31

SILENT compactCAM

Extraction unit for CAM systems

Compact, bag-free extraction unit for use with compact, dental CAM units.

Advantages

- Bi-directional communication between extraction unit and CAM unit thanks to the PLC interface.
- Low operating noise of max. 55 dB (A).
- 3x longer service life in comparison to conventional collector motors (1000 operating hours guaranteed).

Details

- No follow-up costs due to bag-free dust collection.
- Working without interruption due to uncomplicated motor change within minutes.



silent



compact



Process reliability thanks to PLC interface

Technical data

Permissible mains voltage	230 – 240 V 220 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Suction turbine power	490 W (230 V) 460 W (220 V) 480 W (120 V) 480 W (100 V)
Volume flow (max.)	2500 l/min // 1.47 ft ³ /s
Max. depression	219 hPa // 3.2 psi
Filter quality	Class M according to EN 60335-2-69
CAM interface	RJ 45 socket
Number of suction hoses	1
Sound pressure level (LpA) (at max. volume flow)	55 dB (A)
Weight (empty)	~13,2 kg // ~29.1 lbs
Dimensions (W x H x D)	245 x 440 x 500 mm // 9.6 x 17.3 x 19.7"
Ø suction fittings interior	35 mm // 1.38"
Ø suction fittings exterior	40 mm // 1.57"
Fill level dust collector	~2,6 l // ~0.69 gal

Ordering information

SILENT compactCAM, 230-240 V	No. 29342000
SILENT compactCAM, 220 V	No. 29342500
SILENT compactCAM, 120 V	No. 29343000
SILENT compactCAM, 100 V	No. 29343500
Interface cable Type A for vhf, 5 m	No. 29340005
Interface cable Type B for Roland DG, 5 m	No. 29340006
Interface cable Type C for imes-icore, 5 m	No. 29340008
Interface cable Type D for Amann Girrbaach, 5 m	No. 29340009
Interface cable Type E for Yenadent, 5 m	No. 29340010
Interface cable Type F for Zirkozahn, 5 m	No. 29340011
Interface cable Type F for Zirkozahn + C14 adapter, 5 m	No. 29340012
Interface cable Type G for vhf, 5 m	No. 29340013
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Extraction units

This is what makes work easier

- extremely quiet
- strong suction power
- intuitive operation
- very long motor running time
- easy calibration
- modern, compact design



silent



compact



perfect view



Combine cleanliness and quietness

Creating a conducive work environment is possible when the noise level is low and the fine dust level in the air has been greatly reduced. SILENT extraction units are therefore not only extremely powerful – with a suction capacity (depending on the version) up to a volume flow of 4000 l/min. – but also surprisingly quiet, through implementation of the results gained from psycho-acoustic research.



Easy start, intuitive operation

Renfert extraction units can be very easily and quickly connected (Plug & Play), operated, cleaned and maintained. They provide the ideal filter technology for every requirement (with or without a bag depending on the version). The front of the unit allows convenient, direct access to all operating elements. All parameters can be very easily set using a membrane keypad or via a clear multifunctional display.



Select the perfect size

SILENT extraction units are available as single-workstation or two-workstation extraction units and also for use with a CAD-CAM system. All versions are compact and slimline.

Overview

Extraction units

	Name	Single workbench extraction	Two workbench extraction	Device extraction unit	Filter technology	Motor technology	Page
	SILENT EC2		■		Bag- free	EC	22
	SILENT TC2		■		Bag- free	Collector	23
	SILENT TC	■			Bag- free	Collector	24
	SILENT TS2		■		Filter bag	Collector	25
	SILENT TS	■			Filter bag	Collector	26
	SILENT compact	■			Bag- free	Collector	27
	Vortex compact 3L			■	Filter bag	Collector	28

SILENT EC2

Two workbench extraction

Powerful, bag-free extraction unit with two independently controlled suction ports, automatic filter cleaning and EC motor technology.

Advantages

- Reliable production process through brushless EC motor technology (guaranteed runtime of 5000 operating hours).
- Constant suction power thanks to automatic re-adjustment.
- Low operating noise of max. 55 dB (A).

Details

- No follow-up costs due to bag-free dust collection.
- Intuitive operation incl. handpiece calibration with large multifunctional display.



Suction power only when and where you need it – thanks to intelligent, independent control of the two pinch valves

Technical data

Permissible mains voltage	220–240 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Suction turbine power	1610 VA (230 V) 1440 VA (120 V) 1150 VA (100 V)
Volume flow (max.)	3980 l/min // 2.34 ft ³ /s
Max. depression	257 hPa 262 hPa 255 hPa // 3.73 psi 3.8 psi 3.7 psi
Filter quality	Class M according to EN 60335-2-69
Max. permitted connected load of the plug-in socket	1840 W (230 V) 430 W (230 V) 350 W (100 V)
Min./ max. connection pressure external	4,5–8 bar // 65–116 psi
Total connected power	3450 W (230 V) 1800 W (120 V) 1500 W (100 V)
Number of suction hoses	2
Sound pressure level (LpA) (at max. volume flow)	55 dB (A)
Weight (empty)	~18,5 kg // ~40.8 lbs
Dimensions (W x H x D)	285 x 535 x 540 mm // 11.2 x 21.1 x 21.2"
Ø suction fittings interior	45 mm // 1.77"

Ø suction fittings exterior	50 mm // 1.97"
Fill level dust collector	~7 l // ~1.85 gal

Ordering information

SILENT EC2, 220-240 V	No. 29370000
SILENT EC2, 100-120 V	No. 29371000
SILENT EC2, 100 V	No. 29372000
Waste bag for SILENT TC, TC2, EC2 Starter Kit	No. 29340015
Hoses, mufflers and adapters	Page 31

SILENT TC2

Two workbench extraction

Powerful, bag-free extraction unit with two independently controlled suction ports, automatic filter cleaning and long-lasting collector motor.

Advantages

- Consistent suction power thanks to automatic re-adjustment.
- 3x longer service life in comparison to conventional collector motors (1000 operating hours guaranteed).
- Low operating noise of max. 55 dB (A).

Details

- No follow-up costs due to bag-free dust collection.
- Working without interruption due to an uncomplicated motor change within minutes.
- Effective dust reduction using a high volume flow (approx. 4.000 l/min.).



No follow-up costs thanks to bag-free system

Technical data

Permissible mains voltage	220–240 V
Suction turbine power	850 W (230 V)
Volume flow (max.)	3980 l/min // 2.34 ft ³ /s
Max. depression	281 hPa // 4.1 psi
Filter quality	Class M according to EN 60335-2-69
Max. permitted connected load of the plug-in socket	2000 W (230 V)
Min./ max. connection pressure external	4,5–8 bar // 65–116 psi
Total connected power	2850 W (230 V)
Number of suction hoses	2
Sound pressure level (LpA)	55 dB (A)
Weight (empty)	~23 kg // ~50.7 lbs
Dimensions (W x H x D)	285 x 535 x 540 mm // 11,2 x 21,1 x 21,2"
Ø suction fittings interior	45 mm // 1.77"
Ø suction fittings exterior	50 mm // 1.97"
Fill level dust collector	~7 l // ~1.85 gal

Ordering information

SILENT TC2, 220-240 V	No. 29360000
SILENT TC2, 100-120 V	No. 29361000
Waste bag for SILENT TC, TC2, EC2 Starter Kit	No. 29340015
Hoses, mufflers and adapters	Page 31

SILENT TC

Single workbench extraction

Powerful, bag-free extraction unit with automatic filter cleaning and long-lasting collector motor.

Advantages

- No follow-up costs due to bag-free dust collection.
- Low operating noise of max. 54.3 dB (A).
- 3x longer service life in comparison to conventional collector motors (1000 operating hours guaranteed).

Details

- Comfortable operation of the switch-on function through key combination.
- Working without interruption due to uncomplicated motor change within minutes.



silent



Intuitive, convenient operation and programming

Technical data

Permissible mains voltage	220–240 V
Permissible mains frequency	50/60 Hz
Suction turbine power	850 W (230 V) // 850 VA (230 V)
Volume flow (max.)	3980 l/min // 2.34 ft ³ /s
Max. depression	281 hPa // 4.1 psi
Filter quality	Class M according to EN 60335-2-69
Max. permitted connected load of the plug-in socket	2000 W (230 V)
Total connected power	2850 W (230 V)
Number of suction hoses	1
Sound pressure level (LpA)	54.3 dB (A)
Weight (empty)	~22 kg // ~48.5 lbs
Dimensions (W x H x D)	275 x 535 x 540 mm // 10,8 x 21,1 x 21,3"
Ø suction fittings interior	45 mm // 1.77"
Ø suction fittings exterior	50 mm // 1.97"
Fill level dust collector	~7 l // ~1.85 gal

Ordering information

SILENT TC, 220–240 V	No. 29350000
SILENT TC, 100–120 V	No. 29351000
Waste bag for SILENT TC, TC2, EC2 Starter Kit	No. 29340015
Hoses, mufflers and adapters	Page 31

SILENT TS2

Two workbench extraction

Powerful extraction unit with two separately controlled suction ports, durable collector motor and double filter system.

Advantages

- Constant suction power thanks to automatic re-adjustment.
- Low operating noise of max. 59 dB (A).
- 3x longer service life in comparison to conventional collector motors (1000 operating hours guaranteed).

Details

- Intuitive operation incl. handpice calibration with large multifunctional display.
- High degree of health protection through double filter system, optional H/HEPA filter available.
- Working without interruption due to an uncomplicated motor change within minutes.



Simple operation and programming of both independent suction ports

Technical data

Permissible mains voltage	220–240 V 120 V
Permissible mains frequency	50/60 Hz 60 Hz
Suction turbine power	1400 W (230 V) 1400 W (120 V)
Volume flow (max.)	3300 l/min (230 V) 3300 l/min (120 V) // 1.94 ft ³ /s (230 V) 1.94 ft ³ /s (120 V)
Max. depression	200 hPa // 2.9 psi
Filter quality	Class M according to EN 60335-2-69
Max. permitted connected load of the plug-in socket	2000 W (230 V) 360 W (120 V)
Min./ max. connection pressure external	4,5–8 bar // 65–116 psi
Total connected power	3400 W (230 V) 1800 W (120 V)
Number of suction hoses	2
Sound pressure level (LpA) (at max. volume flow)	59 dB (A)
Weight (empty)	~27 kg // ~59.5 lbs
Dimensions (W x H x D)	224 x 591 x 584 mm // 8.8 x 23.3 x 23.0"
Ø suction fittings interior	45 mm // 1.77"
Ø suction fittings exterior	50 mm // 1.97"
Fill level dust collector	7,5 l // 2 gal

Ordering information

SILENT TS2, 220-240 V	No. 29300050
SILENT TS2, 120 V	No. 29301050
Filters and bags	Page 31
Hoses, mufflers and adapters	Page 31

SILENT TS

Single workbench extraction

High performance extraction unit with durable collector motor and double filter system.

Advantages

- Low operating noise of max. 63 dB (A).
- 3x longer service life in comparison to conventional collector motors (1000 operating hours guaranteed).
- High level of health protection due to double filter system, optional H/HEPA filter available.

Details

- Working without interruption due to an uncomplicated motor change within minutes.
- Effective dust reduction using a high volume flow (approx. 3300 l/min.).

Workflow guarantee

Renfert provides a guarantee of 1000 operating hours of motor running time for SILENT TS motors. The tests even showed service lives of over 2400 working hours in extreme cases.



Reliable collection in a large dust bag and easy, dust-free disposal

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Suction turbine power	1400 W (230 V) 1400 W (120 V) 1000 W (100 V)
Volume flow (max.)	3300 l/min (230 V) 3300 l/min (120 V) 2900 l/min (100 V) 1.94 ft ³ /s (230 V) 1.94 ft ³ /s (120 V) 1.7 ft ³ /s (100 V)
Max. depression	200 hPa // 2.9 psi
Filter quality	Class M according to EN 60335-2-69
Max. permitted connected load of the plug-in socket	2000 W (230 V) 360 W (120 V) 500 W (100 V)
Total connected power	3400 W (230 V) 1800 W (120 V) 1500 W (100 V)
Number of suction hoses	1
Sound pressure level (LpA) (at max. volume flow)	63 dB (A)
Weight (empty)	~26 kg // ~57 lbs
Dimensions (W x H x D)	224 x 591 x 564 mm // 8.8 x 23.3 x 22.2"
Ø suction fittings interior	32 mm // 1.26"

Ø suction fittings exterior	40 mm // 1.57"
Fill level dust collector	7,5 l // 2 gal

Ordering information

SILENT TS, 220–240 V	No. 29210050
SILENT TS, 100–120 V	No. 29211050
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SILENT compact

Single workbench extraction

Compact, dustbag-free suction with automatic filter cleaning and durable collector motor.

Advantages

- No follow-up costs due to bag-free dust collection.
- Low operating noise of max. 55 dB (A).
- 3x longer service life in comparison to conventional collector motors (1000 operating hours guaranteed).

Details

- Comfortable operation of the switch-on function through key combination.
- Working without interruption due to uncomplicated motor change within minutes.



silent



compact



Bag-free system with automatic filter cleaning

Technical data

Permissible mains voltage	220–240 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Suction turbine power	490 W (230 V) 480 W (120 V) 480 W (100 V)
Volume flow (max.)	2500 l/min // 1.47 ft ³ /s
Max. depression	219 hPa // 3.2 psi
Filter quality	Class M according to EN 60335-2-69
Max. permitted connected load of the plug-in socket	1350 W (230 V) 480 W (120 V) 320 W (100 V)
Number of suction hoses	1
Sound pressure level (LpA) (at max. volume flow)	55 dB (A)
Weight (empty)	~13,2 kg // ~29.1 lbs
Dimensions (W x H x D)	245 x 440 x 500 mm // 9.6 x 17.3 x 19.7"
Ø suction fittings interior	35 mm // 1.38"
Ø suction fittings exterior	40 mm // 1.57"
Fill level dust collector	~2,6 l // ~0.69 gal

Ordering information

SILENT compact, 220-240 V	No. 29340000
SILENT compact, 120 V	No. 29341000
SILENT compact, 100 V	No. 29341500
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Vortex compact 3L

Device extraction unit

Wet and dry extraction with high suction power and durable collector motor for devices with high dust generation.

Advantages

- Health protection due to double filter system, optional H/Hepa filter available.
- 25% increase of the filter capacity at the push of a button with free filter system.
- Virtually dust-free disposal of collected dust by means of extremely tear-resistant, large filter bags (15 L).

Details

- Not compatible in combination with the Basic eco fine sandblasting unit.



The inexpensive all-rounder for sandblasters, dry trimmers, dental arch trimmers, etc.

Technical data

Permissible mains voltage	230–240 V 120 V
Permissible mains frequency	50/60 Hz 60 Hz
Suction turbine power	1200 W (230 V) 840 W (120 V)
Volume flow (max.)	3700 l/min (230 V) 3700 l/min (120 V) 2.17 ft ³ /s (230 V) 2.17 ft ³ /s (120 V)
Max. depression	250 hPa 230 hPa
Filter quality	Class M according to EN 60335-2-69
Max. permitted connected load of the plug-in socket	2400 W (230 V) 600 W (120 V)
Number of suction hoses	1
Sound pressure level (LpA)	66.3 dB (A)
Weight	~10 kg // ~22 lbs
Dimensions (W x H x D)	385 x 600 x 480 mm // 15.2 x 23.6 x 18.9"
Fill level dust collector	~30 l // ~7.9 gal

Ordering information

Vortex compact 3L, 230-240 V	No. 29245000
Vortex compact 3L, 120 V	No. 29246000
Waste bag, 5 pieces	No. 29245002
Dust bag, 5 pieces	No. 29245003
Fine filter, 1 piece	No. 29245004
Cloth filter, 1 piece	No. 29245005
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Dustex master plus

Dust extractor box



perfect
view

The non-tip and non-slip Dustex master plus extractor box protects against splinters, dust and fumes. An ergonomically well-conceived form and height-adjustable arm rests enable free, comfortable working.

Advantages

- Extraction directly at the object ensures a clear view.
- Maximum freedom of movement thanks to a large inner volume (17 l).
- PerfectView: Innovative LED Technology for best contour and detail recognition.

Details

- Comfortable working due to large arm inlets.
- Bright, built-in illumination (4800 Lux).
- High safety thanks to laminated protective screen with silicone coating.
- Versatile use due to compact and sturdy, light-weight powder-coated housing.
- Practical wooden support, made of hard beech wood.



In the case of particularly large amounts of dust, the dust extractor box Dustex master plus keeps the workbench clean

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Lamp power	16 W
Weight	5 kg // 11 lbs
Dimensions (W x H x D)	380 x 285 x 400 mm // 15.0 x 11.2 x 15.8"
∅ suction fittings interior	35 mm // 1.38"
∅ suction fittings exterior	40 mm // 1.57"
Working chamber (volume)	17 l // 4.5 gal

Ordering information

Dustex master plus, 220-240 V	No. 26260105
Dustex master plus, 100-120 V	No. 26261105

SILENT flow sensor

Sensor module for workbench extraction units



Certified sensor module as an upgrade for workplace safety. A component to enhance safety for all the users not only those at NPM workplaces. The module prevents unnoticed loss of suction power and the resulting risk of health hazards.

Advantages

- Health protection ensured by monitoring the volume flow at the suction mouth.
- Acoustic and optical notification when the flow falls below the limit value, i.e. work safely at all times under optimum conditions!
- App-ready - updates and additional functions can be performed via the Renfert CONNECT app.

Details

- Easy to retrofit for certified Renfert extraction systems.
- Module for hazard analysis at workplaces (e.g. cobalt, non-precious metal).
- Easy cleaning option.

Technical data

Permissible mains voltage	100 – 240 V
Permissible mains frequency	50/60 Hz
Suction	1 W // 1 VA
Weight	800 g // 28.2 oz
Dimensions (W x H x D)	107 x 200 x 95 mm // 4.2 x 7.9 x 3.7"
Ø suction fittings interior	45 mm // 2"
Ø suction fittings exterior	53 mm // 2"

Ordering information

SILENT flow sensor 100-240 V	No. 29140000
SILENT flow sensor 100-240 V Universal adapter	No. 29141000
Renfert CONNECT stick	No. 24100000

Available soon

Grinding box



The grinding box keeps its flexibly selectable location free of grinding dust.

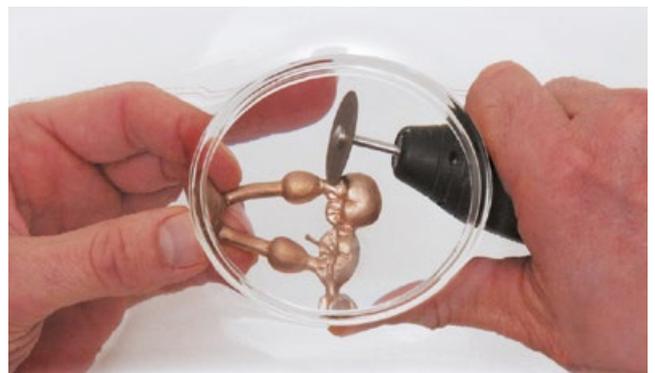
Advantages

- Prevents ground dust from spreading.
- Very easy and particularly flexible to use.
- Optimal control of the piece of work with integrated 2x magnifying glass.

Ordering information

Grinding box

No. 26250000



Accessories

Extraction units

	Dust bag kit	High intake capacity: 7.5 l filling volume. Resilient, fully synthetic material, tear-resistant and sealable. Class M dust bag (DIN EN 60335-2-69). For SILENT TS2, SILENT TS	5 pieces	No. 29210002
	H+Hepa filter SILENT TS/TS2	Even greater safety provided by a filtration efficiency of 99.995%. Toolless, quick change of the filter. Each filter is delivered with an individual certificate (tested according to DIN EN/IEC 60335-2-69 A.3/AA.22.201.2 and EN 1822-5 Hepa Filters / MIL-STD 282 Type: C). For SILENT TS2, SILENT TS	set (H+Hepa filter and exhaust air filter)	No. 900034410
	H+Hepa filter Vortex compact 3L	Even greater safety provided by a filtration efficiency of 99.995%. Toolless, quick change of the filter. Each filter is delivered with an individual certificate (tested according to DIN EN/IEC 60335-2-69 A.3/AA.22.201.2 and EN 1822-5 Hepa Filters / MIL-STD 282 Type: C). For Vortex compact 3L	1 piece	No. 900034420
	End bushings set	For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact	set (2 pieces)	No. 29210003
	Extractor Switch	For connecting 2 dust producing devices. Via selection switch individually adjustable to one or two extraction ports. Tool free and fast connection. For SILENT TC, SILENT TS, Vortex compact 3L	1 Extractor Switch incl. 4 mufflers (without hose), Ø suction fittings, interior/exterior 35 mm / 40 mm (1.38" / 1.57"), Ø muffler interior/exterior 38 mm / 46 mm (1.50" / 1.81")	No. 29260000
	90° angled connector	For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact	1 piece	No. 29340007
	Suction hose	For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact	3 m (with 2 mufflers)	No. 900034240
	Adapter for hose connection	Suitable for most common sized hoses. Accurately fitting connection without cutting to size. For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact, Vortex compact 3L	1 piece	No. 900034305

Accessories

Extraction units

	Universal adapter for suction hose	For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact, Vortex compact 3L	1 piece	No. 900034430
	Suction hose, antistatic	antistatic For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact	3 m (with 2 mufflers)	No. 900034826
	Suction hose	For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact	6 m	No. 901150823
	Suction hose	For SILENT powerCAM EC, SILENT compactCAM, SILENT EC2, SILENT TC2, SILENT TC, SILENT TS2, SILENT TS, SILENT compact	9 m	No. 902150823

Sandblasters

This is what makes work easier

- drastic reduction of abrasive consumption
- constant abrasive flow
- bright blasting chamber throughout (4800 Lux)
- extremely precise nozzle
- large viewing panel



tool included



easy use



perfect view



compact



Minimize costs long-term

Independent tests of different microblasters have shown that significantly less abrasive is used with Renfert microblasters thanks to the unique mixing chamber technology and minimum to no post blasting. This reduces your blasting costs by up to 80%.



See brightly and clearly

Producing optimum work requires a perfect view of the object. Thanks to a brightly illuminated blasting chamber with special daylight LED throughout (4800 Lux) greater contrasts and clearer differences can be seen on the illuminated object. The ideal balance between diffuse and directed light ensures the best contour and detail recognition. Ergonomic hose routing guarantees clear viewing conditions and the color-coded system on the tank lids, the tank positioning, handpieces and tank selection switch make the unit very easy to operate.



Ensure quality with precision

The uniformity of abrasive flow, abrasive power and jet pattern is essential. The special nozzle geometry and mixing chamber technology enable highly focused sandblasting. This allows you to achieve uniform, reproducible surface conditioning ensuring perfect bonding properties – and therefore visibly higher quality.

Overview

Sandblasters

	Name	Number of tanks	Blasting chamber volume	Immediate stop function	Page
	Basic quattro IS	2-4	20 l	■	35
	Basic quattro	2-4	20 l		36
	Basic master	2	20 l		37
	Basic classic	1-2	14 l		38
	Basic eco	1-2	10 l		39
	Vario jet		25 l		40
	Vario basic	0-4	23 l		41
	Basic mobil	1			42

Basic quattro IS

Fine sandblasting unit

Professional fine sandblasting unit with 2-4 blasting tanks and the „IS“ (= Immediate Stop) technology for controlled sandblasting without an after-flow of sandblasting material.

Advantages

- Saves up to 80% sandblasting material thanks to the air-sand mixture and the integrated "IS" immediate stop technology.
- Enables pin-point precision while working, for example when sandblasting grooves or deinvesting intricate items.
- Quick and safe operation with the help of individual pressure adjustment and indicator for each tank.

Details

- Large sandblasting chamber (20 l) allows maximum freedom of movement.
- Easy, tool-free tank extension via the quick-coupling and color-coded system.
- Precise sandblasting due to excellent illumination of the blasting chamber with LED technology.
- Good, long-lasting visibility of the objects through silicone-coated glass panel (10x longer service life).

Making work easy

When sandblasting intricate items such as press ceramics and fissures, the flow of abrasives must start and stop instantly. The integrated quick stop technology does exactly that, reducing the consumption of abrasives at the same time.



tool included



easy use



perfect view



Thanks to the „Immediate Stop (IS)“ function, very fine and intricate tasks as such sandblasting pits and occlusal grooves are possible

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–8 bar // 87–116 psi
Air consumption	98 l/min (6 bar) // 3.46 cfm (87 psi)
Intensity of lighting	4800 lx
Lamp power	16 W
Dimensions (W x H x D) (1–2 tank version)	395 x 320 x 510 mm // 15.6 x 12.6 x 20.1"
Dimensions (W x H x D) (3–4 tank version)	395 x 320 x 610 mm // 15.6 x 12.6 x 24.0"
Tank capacity	1000 ml // 34 fl.oz.
Number of tanks	2–4
Blasting chamber volume	20 l // 5.3 gal
Weight (empty, 2-tanks)	~11,5 kg // ~25.4 lbs

Ordering information

Basic quattro IS, 25–70µm/70–250µm, 220–240 V	No. 29590000
Basic quattro IS, 25–70µm/70–250µm, 100–120 V	No. 29591000
Additional tank, 25–70µm, 1 x 25–70µm, incl. nozzle 0.8 mm	No. 29590050
Additional tank, 70–250µm, 1 x 70–250µm, incl. nozzle 1.2 mm	No. 29590250
Cobra	Page 43
Rolloblast	Page 44
Sandblasting nozzles	Page 44

Basic quattro

Fine sandblasting unit

Professional fine sandblasting unit with 2-4 blasting tanks.

Advantages

- Great cost efficiency through special mixing chamber technology (Venturi-Principle).
- Easy to clean hand and object with the integrated jet nozzle.
- Large sandblasting chamber (20 l) allows maximum freedom of movement.

Details

- Precise sandblasting due to excellent illumination of the sandblasting chamber with LED technology.
- Good, long-lasting visibility of the objects through silicone-coated glass panel (10x longer service life).



tool included



perfect view



Upgrade to up to 4 tanks covers all sandblasting operations in the laboratory

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–8 bar // 87–116 psi
Air consumption	98 l/min (6 bar) // 3.46 cfm (87 psi)
Intensity of lighting	4800 lx
Lamp power	16 W
Dimensions (W x H x D) (1–2 tank version)	395 x 285 x 460 mm // 15.6 x 11.2 x 18.1"
Dimensions (W x H x D) (3–4 tank version)	395 x 285 x 560 mm // 15.6 x 11.2 x 22.0"
Tank capacity	1000 ml // 34 fl.oz.
Number of tanks	2–4
Blasting chamber volume	20 l // 5.3 gal
Weight (empty, 2-tanks)	~8,9 kg // ~19.6 lbs

Ordering information

Basic quattro, 25–70µm/70–250µm, 220–240 V	No. 29580000
Basic quattro, 25–70µm/70–250µm, 100–120 V	No. 29581000
Additional tank, 25–70µm, 1 x 25–70µm, incl. nozzle 0.8 mm	No. 29580050
Additional tank, 70–250µm, 1 x 70–250µm, incl. nozzle 1.2 mm	No. 29580250
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Sandblasting nozzles	Page 44

Basic master

Fine sandblasting unit

Fine sandblasting unit with 2 blasting tanks and large blasting chamber.

Advantages

- Homogeneous and tension-free surfaces thanks to the special mixing chamber technology (Venturi principle), regardless of the fill level of the sandblasting tank.
- High economic efficiency as there is no unnecessary after-flow of sandblasting material.
- Targeted, precise sandblasting due to excellent illumination of the blasting chamber with LED technology.

Details

- Large sandblasting chamber (20 l) allows ample freedom of movement.
- Good, long-lasting visibility of the objects through silicone-coated glass panel (10x longer service life).



tool included



perfect view



High contrast and high contour detail due to excellent illumination ("perfect view" concept)

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–8 bar // 87–116 psi
Air consumption	98 l/min (6 bar) // 3.46 cfm (87 psi)
Intensity of lighting	4800 lx
Lamp power	16 W
Dimensions (W x H x D)	395 x 285 x 460 mm // 15.6 x 11.2 x 18.1"
Tank capacity	1000 ml // 34 fl.oz.
Number of tanks	2
Blasting chamber volume	20 l // 5.3 gal
Weight (empty, 2-tanks)	~8,1 kg // ~17.9 lbs

Ordering information

Basic master, 25–70µm/25–70µm, 220–240 V	No. 29482000
Basic master, 25–70µm/70–250µm, 220–240 V	No. 29482025
Basic master, 70–250µm/70–250µm, 220–240 V	No. 29482250
Basic master, 25–70µm/25–70µm, 100–120 V	No. 29484000
Basic master, 25–70µm/70–250µm, 100–120 V	No. 29484025
Basic master, 70–250µm/70–250µm, 100–120 V	No. 29484250
Retrofit tank, 25–70µm, 1 x 25–70µm, incl. nozzle 0.8 mm	No. 29470050
Retrofit tank, 70–250µm, 1 x 70–250µm, incl. nozzle 1.2 mm	No. 29470250
Cobra	Page 43
Rollblast	Page 44
Sandblasting nozzles	Page 44

Basic classic

Fine sandblasting unit

Space-saving fine sandblasting unit with 1-2 blasting tanks.

Advantages

- Cost-effective operation through special mixing chamber technology (Venturi-Principle).
- Precise sandblasting due to excellent illumination of the blasting chamber with LED technology
- Large sandblasting chamber (14 l) allows good freedom of movement.

Details

- Tool-free extension to 2 tanks.



tool included



perfect view



Four times longer service life compared to conventional nozzles thanks to highly resistant boron carbide

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–8 bar // 87–116 psi
Air consumption	98 l/min (6 bar) // 3.46 cfm (87 psi)
Intensity of lighting	4800 lx
Lamp power	16 W
Dimensions (W x H x D)	355 x 270 x 415 mm // 14.0 x 10.6 x 16.3"
Tank capacity	1000 ml // 34 fl.oz.
Number of tanks	1–2
Blasting chamber volume	14 l // 3.7 gal
Weight (empty, 2-tanks)	~6,5 kg // ~14.3 lbs
Weight (empty, 1-tank)	~5,4 kg // ~11.9 lbs

Ordering information

Basic classic, 25–70µm, 220–240 V	No. 29471050
Basic classic, 70–250µm, 220–240 V	No. 29471250
Basic classic, 25–70µm/25–70µm, 220–240 V	No. 29472000
Basic classic, 25–70µm/70–250µm, 220–240 V	No. 29472025
Basic classic, 70–250µm/70–250µm, 220–240 V	No. 29472250
Basic classic, 25–70µm/25–70µm, 100–120 V	No. 29474000
Basic classic, 25–70µm/70–250µm, 100–120 V	No. 29474025
Retrofit tank, 25–70µm, 1 x 25–70µm, incl. nozzle 0.8 mm	No. 29470050
Retrofit tank, 70–250µm, 1 x 70–250µm, incl. nozzle 1.2 mm	No. 29470250
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Basic eco

Fine sandblasting unit

Compact, fine sandblasting unit with 1 or 2 blasting tanks.

Advantages

- Great cost efficiency through special mixing chamber technology (Venturi-Principle).
- Precise sandblasting due to excellent illumination of the blasting chamber with LED technology
- Sufficient freedom of movement in the large sandblasting chamber (10 l).

Details

- Tool-free extension to 2 tanks.



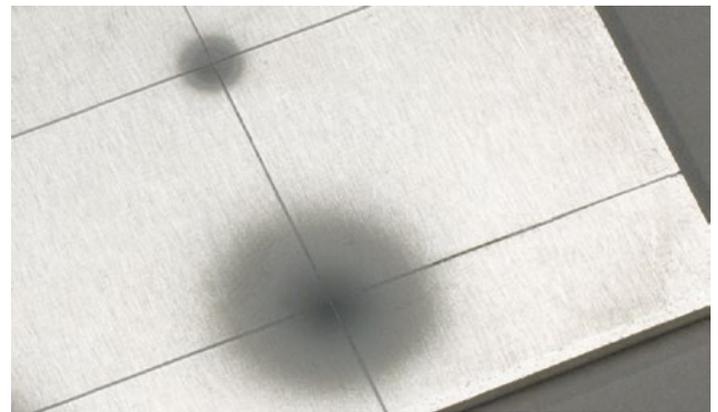
tool included



perfect view



compact



Pin-point accurate and cost-effective sandblasting. Above: Renfert focused jet, below: focused jet of a competitor

Technical data

Permissible mains voltage	220–240 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–8 bar // 87–116 psi
Air consumption	98 l/min (6 bar) // 3.46 cfm (87 psi)
Intensity of lighting	4800 lx
Lamp power	9 W
Dimensions (W x H x D)	350 x 275 x 400 mm // 13.8 x 10.8 x 15.7"
Tank capacity	1000 ml // 34 fl.oz.
Number of tanks	1–2
Blasting chamber volume	10 l // 2.64 gal
Weight (empty, 2-tanks)	~5,5 kg // ~12.1 lbs
Weight (empty, 1-tank)	~4,4 kg // ~9.7 lbs

Ordering information

Basic eco, 25-70µm, 230 V	No. 29491050
Basic eco, 70-250µm, 230 V	No. 29491250
Basic eco, 25-70µm/70-250µm, 230 V	No. 29492025
Basic eco, 25-70µm, 120 V	No. 29493050
Basic eco, 70-250µm/70-250µm, 120 V	No. 29494250
Basic eco, 25-70µm/70-250µm, 120 V	No. 29494025
Basic eco, 25-70µm/70-250µm, 100 V	No. 29495025
Basic eco, 25-70µm, 100 V	No. 29495050
Basic eco, 70-250µm, 100 V	No. 29495250
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Vario jet

Recyclable sandblaster

The Vario jet is the ideal recycling sandblaster for economic sandblasting. It can be operated in both automatic and manual modes.

Advantages

- Exact coordination of the essential sandblasting parameters (pressure, time, grit size).
- Intelligent extraction system: only unusable fine dust is extracted.
- High degree of freedom of movement due to easily removable sandblasting basket.

Details

- Intuitive operating logic.
- Program selection via a membrane keypad.
- Blasting pressure can be set from 1–6 bar (14.5–87 psi).
- Manometer pressure display.
- Automatic control of an external extraction with controlled shut-off delay between 5 and 30 sec.
- Inlet opening and connection possibility for a compressed-air-driven unit (microblaster, pneumatic deflasking chisel, outlet nozzle).
- Highly resistant, coated glass panel.
- Cotton-coated protective gloves.

The intelligent extraction system

50% saving in abrasive consumption. The extraction channels have been designed, so that only unusable fine dust is removed.



Saves time and money: the large rotating steel basket allows up to 7 objects to be sandblasted at the same time

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Power consumption	30 W
Max. power consumption of external dust extractor	1200 W
Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–10 bar // 87–145 psi
Air consumption	200 l/min (6 bar) // 7.06 cfm (87 psi)
Dimensions (W x H x D)	405 x 650 x 460 mm // 15.9 x 25.6 x 18.1"
Blasting chamber volume	25 l // 6.6 gal
Weight (empty)	~26 kg // ~57.3 lbs

Ordering information

Vario jet, 220–240 V	No. 29610000
Vario jet, 100–120 V	No. 29611000
Cobra	Page 43



Vario basic

Recyclable and fine sandblasting unit

The compact combination of recyclable sandblaster and microblaster. A cost-effective, multifunctional solution for all relevant sandblasting work in the dental laboratory.

Advantages

- Can be upgraded with 1 to 4 microblasting tanks.
- 50% less abrasive consumption due to intelligent extraction system (only unusable fine dust is removed).
- PerfectView: Innovative LED Technology for best contour and detail recognition.

Details

- Individually adjustable recycling nozzle with the integrated Venturi principle and efficient sandblasting.
- Highly resistant coated glass panel.
- Replaceable, washable cuffs.
- Powder-coated metal housing.
- Internal tank selection switch for each microblaster tank, recycling sandblast operation or choice of an external compressed air unit.
- IT-Handpiece with exchangeable nozzles.
- Filter control with manual water separator for cleaning the supplied compressed air.
- Highly resistant boron carbide nozzle optionally available.
- Inlet opening and connection for a compressed air driven unit (e.g. deflasking chisel).

The sand silo

A removable large particle separator prevents contamination of the abrasive. The large, funnel-shaped silo ensures permanent sand supply. The unit can be emptied via an opening in the silo floor.



Your all-round talent in the laboratory: tool-free extension to up to 4 fine sandblasting tanks

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–8 bar // 87–116 psi
Air consumption	200 l/min (6 bar) // 7.06 cfm (87 psi)
Intensity of lighting	4800 lx
Lamp power	16 W
Dimensions (W x H x D) (0–2 tank version)	380 x 540 x 450 mm // 15.0 x 21.3 x 17.7"
Dimensions (W x H x D) (3–4 tank version)	380 x 540 x 540 mm // 15.0 x 21.3 x 21.3"
Tank capacity	1000 ml // 34 fl.oz.
Number of tanks	0–4
Blasting chamber volume	23 l // 6.1 gal
Weight (empty without tanks)	~14 kg // ~31 lbs

Ordering information

Vario basic, 220–240 V	No. 29600005
Vario basic, 100–120 V	No. 29601005
Additional tank right, 25–70 µm, 1 x 25–70µm, incl. nozzle 0.8 mm	No. 29540050
Additional tank left, 25–70 µm, 1 x 25–70µm, incl. nozzle 0.8 mm	No. 29540051
Additional tank right, 70–250 µm, 1 x 70–250µm, incl. nozzle 1.2 mm	No. 29540250
Additional tank left, 70–250 µm, 1 x 70–250µm, incl. nozzle 1.2 mm	No. 29540251
Wall bracket, incl. 90° angled connector	No. 29600001
Protective grate, 1 piece	No. 29600003
Boron carbide nozzle, 1 piece	No. 900035520
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Basic mobil

Fine sandblasting unit



Renfert blasting technology has been reduced to a basic design in the Basic mobil sandblasters. Mobile use only requires connection to the compressed air.

Advantages

- Ideal use with existing abrasive chamber.
- Control using pneumatic foot switch.
- Individual blasting pressure of 1–6 bar. Pressure display via manometer.

Technical data

Working pressure	1–6 bar // 14.5–87 psi
Max. connection pressure	6–8 bar // 87–116 psi
Air consumption	98 l/min (6 bar) // 3.46 cfm (87 psi)
Dimensions (W x H x D)	220 x 260 x 130 mm // 8.7 x 10.2 x 5.1"
Tank capacity	1000 ml // 34 fl.oz.
Number of tanks	1
Weight (empty)	~2,5 kg // ~5.5 lbs

Ordering information

Basic mobil with foot switch, 25–70 µm	No. 29143050
Basic mobil with foot switch, 70–250 µm	No. 29143250
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High performance compressed air filter



No more problems in compressed air supply systems due to condensation water, oil, color residue or rust particles from compressors. The compressed air filter prevents clumping of the sandblasting abrasive and blockage of the fine channels of compressed air units.

Advantages

- Three-step filter system: Prefilter, fine filter and active carbon filter.
- Three users can be connected to one filter.
- All filters can be easily exchanged.

Technical data

Working pressure	10 bar // 145 psi
Air quality	ISO 8573-1, Class 1.7.1
Flow rate	420 l/min (6,3 bar) // 14.8 cfm (91 psi)
Dimensions (W x H x D)	210 x 280 x 70 mm // 8.3 x 11.0 x 2.8"

Ordering information

High performance compressed air filter	No. 29400000
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Accessories

Sandblasters

	Cobra, 110µm	90–125 µm (200–115 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario jet, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15831005
	Cobra, 110µm	100 µm (170–100 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario jet, Vario basic, Basic mobil	12.5 kg bucket (27.6 lbs.)	No. 15831012
	Cobra, 90µm	90–125 µm (200–115 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario jet, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15841005
	Cobra, 250µm	250 µm (60 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario jet, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15851005
	Cobra, 250µm	250 µm (60 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario jet, Vario basic, Basic mobil	12.5 kg bucket (27.6 lbs.)	No. 15851012
	Cobra, 125µm	90–125 µm (200–115 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario jet, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15871005
	Cobra, 125µm	90–125 µm (200–115 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario jet, Vario basic, Basic mobil	12.5 kg bucket (27.6 lbs.)	No. 15871012
	Cobra, 25µm	25 µm (450 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15941105
	Cobra, 50µm	50 µm (270 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	12.5 kg bucket (27.6 lbs.)	No. 15941112
	Cobra, 50µm	50 µm (270 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15941205

Accessories

Sandblasters

	Rolloblast, 100µm	100 µm (170–100 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15891005
	Rolloblast, 50µm	50 µm (400–200 mesh) For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	5 kg canister (11.04 lbs.)	No. 15941305
	IT sandblasting nozzle Ø 0,40 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900021203
	IT sandblasting nozzle Ø 0,80 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900021204
	IT sandblasting nozzle Ø 1,40 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900021205
	IT sandblasting nozzle Ø 2,00 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900021206
	IT Slotted nozzle Ø 1,5x3,5 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900031739
	IT sandblasting nozzle Ø 1,00 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900033211
	IT sandblasting nozzle Ø 0,60 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900033213
	IT sandblasting nozzle Ø 1,20 mm	Blasting nozzles for the Basic units For Basic quattro IS, Basic quattro, Basic master, Basic classic, Basic eco, Vario basic, Basic mobil	1 piece	No. 900033214

NEW POWER steamer 2

Steam cleaning unit with automatic filling

The new, powerful POWER steamer 2 sets new standards in reliability and durability and impresses with its outstanding cleaning performance. Any kind of typical soiling can be easily and effectively removed. Using the mains water connection and integrated pump, the pressure tank is filled automatically and ensures availability of steam at all times.

Advantages

- Particularly durable heating system – the heating element is cast inside the floor of the boiler to protect it against water, limescale, and the chemicals used during cleaning.
- High functional reliability and dependability thanks to a real-time calcification indicator.
- Simple cleaning of the pressure tank thanks to an extra-large service opening.
- Smart operation plus additional functions via app interface // Renfert CONNECT stick*.

*(optional accessory available from end of 2022. Limited country availability).

Details

- Continuous and effective cleaning performance thanks up to 2,000 W and 4.5 bar working pressure in combination with innovative steam nozzle technology.
- Availability of steam at all times – even during heavy-duty continuous use – thanks to automatic filling using the mains water connection and integrated pump.
- Optimal control through display of the current working pressure using a manometer.
- Significant reduction in workload when rinsing, cleaning, and descaling the pressure tank thanks to an effective rinsing program.



tool included



easy use



compact



smart control



Protected heating element

Technical data

Permissible mains voltage	220–240 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Power consumption	2000 W 1280 W 1550 W
Pressure vessel volume	4 l // 1.06 gal
Volume (Recommended fill quantity)	2,8 l // 0.74 gal
Volume (Maximum fill quantity)	3 l // 0.79 gal
Working pressure	4,5 bar // 65.3 psi
Connection pressure	1–5 bar // 14.5–72.5 psi
Dimensions (W x H x D)	370 x 422 x 350 mm // 14.6 x 16.6 x 13.8"
Weight	~10,1 kg // ~22.3 lbs

Ordering information

POWER steamer 2, 230 V	No. 18460000
POWER steamer 2, 120 V	No. 18461000
POWER steamer 2, 100 V	No. 18462000
Wall bracket	No. 18450200
POWER steamer descaler	Page 47
POWER steamer water softener	Page 47

Available soon

NEW POWER steamer 1

Steam cleaning unit for manual filling

The new, powerful POWER steamer 1 sets new standards in reliability and durability and impresses with its outstanding cleaning performance. Any kind of typical soiling can be easily and effectively removed. The location can be selected flexibly thanks to manual filling.

Advantages

- Particularly durable heating system – the heating element is cast inside the floor of the boiler to protect it against water, limescale, and the chemicals used during cleaning.
- High functional reliability and dependability thanks to a real-time calcification indicator.
- Simple cleaning of the pressure tank thanks to an extra-large service opening.
- Smart operation plus additional functions via app interface // Renfert CONNECT stick*.

* (optional accessory available from end of 2022. Limited country availability).

Details

- Continuous and effective cleaning performance thanks up to 2,000 W and 4.5 bar working pressure in combination with innovative steam nozzle technology.
- Flexible location selection thanks to manual filling.
- Safe and convenient steam cleaning thanks to an ergonomic handpiece (the housing safely dissipates electrostatic charge).
- Easy filling of water and descaling solution thanks to handy, hopper-shaped fillers.
- Wall mounting possible using an optional wall bracket.



tool included



easy use



compact



smart control



Extra large service opening

Technical data

Permissible mains voltage	220–240 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Power consumption	2000 W 1550 W 1280 W
Pressure vessel volume	4 l // 1.06 gal
Volume (Recommended fill quantity)	2,8 l // 0.74 gal
Volume (Maximum fill quantity)	3 l // 0.79 gal
Working pressure	4,5 bar // 65.3 psi
Dimensions (W x H x D)	370 x 422 x 350 mm // 14.6 x 16.6 x 13.8"
Weight (empty)	~9,5 kg // ~20.9 lbs

Ordering information

POWER steamer 1, 230 V	No. 18450000
POWER steamer 1, 120 V	No. 18451000
POWER steamer 1, 100 V	No. 18452000
Wall bracket	No. 18450200
POWER steamer descaler	Page 47

Available soon

NEW POWER steamer descaler

Concentrated descaling solution
(for POWER steamer 1 and 2)



POWER steamer descaler is a concentrated descaling solution for effective as well as gentle descaling of both POWER steamers.

Advantages

- Descaling that is both effective and gentle on material – the formulation is especially adapted for the aluminum pressure tank (incl. corrosion protection).
- Considerably faster descaling than with standard commercial descaling solutions.

Details

- 1 liter of concentrate: practical handling, effective cleaning.
- Can be poured in directly and only requires dilution with water.

Ordering information

POWER steamer descaler

No. 18450100



NEW POWER steamer water softener

Water softening system for POWER steamer 2



silent



compact



Reliable water softening and filter system, especially adapted for POWER steamer 2. The system provides optimal protection of the POWER steamer, increasing its efficiency, reliability, and durability.

Advantages

- Inexpensive and advanced water softening / filter technology that is usually only available in large expensive systems.
- Provides the POWER steamer 2 with clean water with reduced calcium content.
- Easy, compact installation (free-standing or wall-mounted) that can be completed within minutes.
- Simple operation and monitoring (visual and acoustic signal) via a flow sensor unit with an OLED display.

Details

- Fast replacement of filter cartridges within seconds – remove, insert, that's it.
- Long-lasting filter cartridges.
- Venting and rinsing directly at the filter head, without disconnecting the tubes (via automated inlet and outlet shut-off valves).
- Automatic replacement of all seals between the head and cartridge each time a cartridge is replaced.

Technical data

Weight (cartridge) ~1,8 kg // ~3.96 lbs

Ordering information

Available soon

POWER steamer water softener	No. 18460100
POWER steamer water softener Flowmeter	No. 18460101
POWER steamer water softener Filter head	No. 18460102
POWER steamer water softener Filter cartridge M	No. 18460103
POWER steamer water softener Filter cartridge L	No. 18460104

Mixing units

This is what makes work easier

- very homogeneous mixing
- clear display
- convenient one-hand operation
- large selection of bowls
- flexible installation (wall or bench unit)



easy use



silent



compact



Achieve homogeneous results

The all-round, optimized vacuum technology provides homogeneous mixing as the basis for perfect restorations. Whether vacuum build-up via membrane pump or compressed air: both versions build up the required vacuum with impressive speed.



Relaxed, flexible working

Convenient one-hand operation, thanks to automatic bowl connection via the vacuum, and the large, bright and clear display which provide maximum operating comfort. The Twister mixers can be used as wall or bench units.



Mix any amount

A feature of all Twister units is the reproducibility of the results. This applies in particular to the evolution models. With over 100 programs the individual, optimum mixing parameters can be called up again and again using a simple press of a button.

Overview

Mixing units

	Name	Membrane pump	Compressed air	Programmable	Page
	Twister evolution	■		■	50
	Twister	■			51
	Twister venturi		■		52

Twister evolution

Vacuum mixing unit

High speed, vacuum mixing unit, diaphragm pump for the vacuum and eight programmable mixing functions.

Advantages

- Reliable processing of large amounts due to high speed.
- Can be used flexibly for plaster and investment materials, duplicating materials and alginate impression materials.
- Reduction of bubbles thanks to a vacuum that can be regulated in increments between 70% and 100%.

Details

- Programmable: Twister evolution has more than 100 custom programmable mixing programs.
- Prespattulation: The prespattulation function guarantees consistent results, regardless of whether plaster or investment material is used. In addition, the mixing time is reduced and inhalation of dangerous dust prevented.
- Pre vacuum: Undesired reaction gases from investments are extracted by the prevacuum function before the main mixing time.
- Main mixing cycle: The powerful motors of the Twister evolution effortlessly maintain the set mixing speed with any material, filling level and bowl size.
- Reverse rotation: Dry agglomerates are broken up by the change of the paddle direction to ensure better wetting of the powder.
- Post vacuum: The post vacuum of the Twister evolution reduces gas inclusions, which form later on the surface of the mixture.



easy use



silent



compact



Reproducible mixing results at the push of a button

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Power consumption	180 VA
Vacuum pump capacity	16 l/min // 0.56 cfm
Max. vacuum	≈-890 mbar // ≈-12.9 psi
Bowl pressure abs.	≈80 mbar // ≈1.16 psi
Vacuum reduction	70–100 %
Rotational speed	100–450 rpm
Dimensions (W x H x D) (wall unit)	152 x 285 x 235 mm // 6.0 x 11.2 x 9.3"
Dimensions (W x H x D) (with stand)	230 x 640 x 295 mm // 9.0 x 25.2 x 11.6"
Weight (without bowl)	~5,2 kg // ~11.5 lbs

Ordering information

Twister evolution, 220–240 V	No. 18280000
Twister evolution, 100–120 V	No. 18281000
Further accessories	Page 53
Mixing bowls	Page 53

Twister

Vacuum mixing unit

High speed vacuum mixing unit with diaphragm pump for the vacuum and base mixing functions.

Advantages

- Reliable processing of large amounts due to high speed.
- Easy and fast entry of the mixing parameters using a large, highly luminous display.
- Reduction of bubbles due to vacuum which can be regulated from 70% to 100%.

Details

- Can be used flexibly for alginate impression materials and all duplicating and model materials used in dental technology.

Direct manual control

All mixing parameters are entered easily and quickly.

Impressive motor power

The powerful motor guarantees homogeneous and bubble-free mixing with dental plasters, investments and silicones.

Vacuum level can be regulated

The vacuum level, which can be regulated between 70% and 100%, prevents bubbles with certain plasters and duplicating silicones.

Universal use

The Twister units can be used for all the usual impression and model materials in dental technology.



easy use



silent



compact



Intuitive programming and operation

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Power consumption	180 W
Vacuum pump capacity	16 l/min // 0.56 cfm
Max. vacuum	≈-890 mbar // ≈-12.9 psi
Bowl pressure abs.	≈80 mbar // ≈1.16 psi
Vacuum reduction	70–100 %
Rotational speed	100–450 rpm
Dimensions (W x H x D) (wall unit)	152 x 285 x 235 mm // 6.0 x 11.2 x 9.3"
Dimensions (W x H x D) (with stand)	230 x 640 x 295 mm // 9.0 x 25.2 x 11.6"
Weight (without bowl)	~5,2 kg // ~11.5 lbs

Ordering information

Twister, 220-240 V	No. 18260000
Twister, 100-120 V	No. 18261000
Further accessories	Page 53
Mixing bowls	Page 53

Twister venturi

Vacuum mixing unit

High speed vacuum mixing unit, Venturi vacuum technology and base mixing functions.

Advantages

- Reliable processing of large amounts due to high speed.
- Easy and fast entry of mixing parameters using a large, highly luminous display.
- Reduction of bubbles thanks to two vacuum settings of 80% or 100%.

Details

- Can be used flexibly for alginate impression materials and all duplicating and model materials used in dental technology.

Features

Twister and Twister venturi generally have the same functions. The only difference is in the technology for generating the vacuum. While the Twister operates using a motor pump, the Twister venturi produces the vacuum with the aid of compressed air.



easy use



silent



compact



Extremely fast vacuum build-up via compressed air connection

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Power consumption	180 W
Min./ max. connection pressure external	4,5–6 bar // 65–87 psi
Max. vacuum	≈-890 mbar // ≈-12.9 psi
Bowl pressure abs.	≈80 mbar // ≈1.16 psi
Vacuum reduction	80 % 100 %
Air consumption	28 l/min // 0.99 cfm
Rotational speed	100–450 rpm
Dimensions (W x H x D) (wall unit)	152 x 320 x 235 mm // 6.0 x 12.6 x 9.3"
Dimensions (W x H x D) (with stand)	230 x 640 x 295 mm // 9.0 x 25.2 x 11.6"
Weight (without bowl)	~4 kg // ~8.8 lbs

Ordering information

Twister venturi, 220-240 V	No. 18270000
Twister venturi, 100-120 V	No. 18271000
Further accessories	Page 53
Mixing bowls	Page 53

Accessories

Mixing units

	Stand	This stand has been specially designed for all Twister versions. Converts your Twister to a bench unit. Secure assembly in only a few steps. Flexibility and ergonomics. For Twister evolution, Twister, Twister venturi	1 piece	No. 18210102
	Mixing spatula	The mixing spatula for all bowls in the Twister range provides the optimum prespatulation tool, which is also used for scooping the mixed material completely out of the bowl. Rounded edges protect the bowl. Length and stability also enable mixing of large quantities of material. For Twister evolution, Twister, Twister venturi	1 piece	No. 18210200
	Mixing bowl incl. paddle, 200 ml	Well-designed paddle geometry for optimal, thorough mixing. Marking indicates maximum filling capacity. Reservoir protects against unintentional over filling. Bowl made from high-strength polycarbonate. For Twister evolution, Twister, Twister venturi	1 piece incl. paddle, 200 ml	No. 18200200
	Mixing bowl, 200 ml	Bowl made from high-strength polycarbonate. Marking indicates maximum filling capacity. For Twister evolution, Twister, Twister venturi	1 piece	No. 18200220
	Mixing bowl incl. paddle, 500 ml	Well-designed paddle geometry for optimal, thorough mixing. Marking indicates maximum filling capacity. Reservoir protects against unintentional over filling. Bowl made from high-strength polycarbonate. For Twister evolution, Twister, Twister venturi	1 piece incl. paddle, 500 ml	No. 18200500
	Mixing bowl, 500 ml	Bowl made from high-strength polycarbonate. Marking indicates maximum filling capacity. For Twister evolution, Twister, Twister venturi	1 piece	No. 18200520
	Mixing bowl incl. paddle, 700 ml	Well-designed paddle geometry for optimal, thorough mixing. Marking indicates maximum filling capacity. Reservoir protects against unintentional over filling. Bowl made from high-strength polycarbonate. For Twister evolution, Twister, Twister venturi	1 piece incl. paddle, 700 ml	No. 18200700
	Mixing bowl incl. paddle, 1.000 ml	Well-designed paddle geometry for optimal, thorough mixing. Marking indicates maximum filling capacity. Reservoir protects against unintentional over filling. Bowl made from high-strength polycarbonate. For Twister evolution, Twister, Twister venturi	1 piece incl. paddle, 1000 ml	No. 18201001

Accessories

Mixing units



**Mixing bowl incl.
paddle, 65 ml**

Well-designed paddle geometry for optimal, thorough mixing. Marking indicates maximum filling capacity. Reservoir protects against unintentional over filling. Bowl made from high-strength polycarbonate.

For Twister evolution, Twister, Twister venturi

1 piece incl.
paddle, 65 ml

No. 18206500



**Alginate mixing bowl,
incl. paddle, 500 ml**

Specially designed for the requirements of alginates. Bubble-free material thanks to the specially contoured mixing paddle for alginate material. The special surface coating ensures easy cleaning. For Twister evolution, Twister, Twister venturi

1 piece incl.
paddle, 500 ml

No. 18230500

Vibrax

Vibrator

The wide-ranging vibration spectrum optimally processes any material. The functionally sophisticated handling enables comfortable use even under difficult conditions.

Advantages

- Bubble-free flow behavior using two wave ranges with 4 levels of intensity.
- Low transfer of the vibrations to the workbench as the housing is oscillation decoupled.
- Long service life using maintenance-free vibration magnet.

Details

- Uncomplicated adaptation of the intensity via the large lever switch using only one finger.
- Extremely quiet, ensuring a comfortable working atmosphere.
- Time-saving due to quickly cleaned elements.
- Non-tip and extremely stable even when high pressure is applied to the edges.
- No springing of the impression tray thanks to the soft tray rest.

Optional accessory

Vibrating sphere ensures uniform flow behavior during investing and pouring of impression trays.



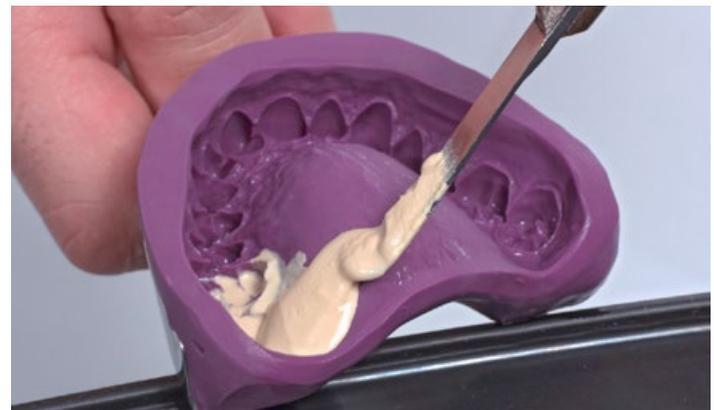
tool included



easy use



silent



Always at the right frequency: ideal flow properties for all plaster and investment materials

Technical data

Permissible mains voltage	230 V 120 V 100 V 220 V
Permissible mains frequency	50 Hz 60 Hz
Power consumption	185 VA (230 V) 170 VA (120 V) 190 VA (100 V) 170 VA (220 V)
Mains input fuse	2 x 1.6 A (T)
Frequency	100 Hz (50 Hz)
Dimensions (W x H x D)	275 x 140 x 220 mm // 10.8 x 5.5 x 8.7"
Weight	~6,4 kg // ~14.1 lbs

Ordering information

Vibrax, 230 V	No. 18300000
Vibrax, 120 V	No. 18301000
Vibrax, 100 V	No. 18302000
Vibrax, 100 V	No. 18303000
Vibrax, 220 V	No. 18304000
Vibrating sphere, 1 piece	No. 18300001

Trimmers

This is what makes work easier

- Work light and aqua stop (MT premium)
- Expansion option for orthodontic requirements (MT premium & MT3)
- Powerful motors
- Removable front door (tool free)
- Easily adjustable trimmer table
- Corrosion-free housing



tool included



easy use



perfect view



See clearly and save resources

Light exactly where you need it, water stopped precisely when you don't: the integrated work light and aqua stop of the MT premium reduce eyestrain and protect valuable resources.



Trimming for orthodontics

Orthodontic work needs trimmers that can do more. The ORTHO guide set MT premium transforms the MT premium into a special trimmer for orthodontic requirements, while the ORTHO guide set MT3 does the same for the MT3.



Comfortable work and easy to clean

The trimmer table can be easily adjusted to two positions, and with MT plus even free adjustment is possible. This allows you to always quickly adjust to your preferred angle.

And cleaning? The trimmer table and spray tube can be removed with a single hand movement and without any tools. What's more, the innovative spray tube concept and regulation of the water flow enable optimal cleaning of the trimmer disc with minimum water consumption.

NEW MT premium

Wet trimmer with a work light and aqua stop

Taking wet trimming to the next level: With sophisticated features that are perfect for everyday work, the MT premium trimmer is in a class of its own.

Advantages

- Efficient and precise wet trimming of dental plaster models.
- Fatigue-free work thanks to the integrated work light.
- Cost reduction and resource conservation thanks to aqua stop.
- Quick adjustment of the trimmer table angle using the handy tilt mechanism (90°/98°).

Details

- Easy and fast cleaning with tool-free removal of the trimmer table, door, and spray tube.
- Clean, interference-free work thanks to optimal sealing.

Further details

- Exceptionally powerful motor for outstanding surface removal even with harder types of plaster.
- Easy guidance of the plaster model with the aid of slotted angle lines on the trimmer table.
- Optimum view of the model due to a 10° inclination of the unit.
- Uniform coverage by the optimally positioned spray tube prevents clogging of the trimmer disc.



tool included



easy use



perfect view



Optimal lighting of the work area

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Power consumption	1300 W (230 V) 1325 W (120 V) 1.74 hp (230 V) 1.78 hp (120 V)
Motor performance (P1)	1300 W // 1.74 hp 1.78 hp
Motor performance (P2)	900 W // 1.21 hp 1.34 hp
Rotational speed	2880–3400 rpm
Water consumption max.	7 l/min // 0.25 cfm
Water pressure min. / max.	1–5 bar // 14.5–72.5 psi
Ø (Connection piece for drain hose)	36 mm // 1.42"
Ø (Trimmer disc)	234 mm // 9.2"
Dimensions (W x H x D)	305 x 330 x 410mm // 12.0 x 13.0 x 16.2"
Weight (without trimmer disc)	~13,2 kg // ~29 lbs

Ordering information

MT premium incl. Klettfix trimmer disc, 220-240 V	No. 18070000
MT premium incl. Marathon trimmer disc, 220-240 V	No. 18070500
MT premium incl. Klettfix trimmer disc, 100-120 V	No. 18071000
MT premium incl. Marathon trimmer disc, 100-120 V	No. 18071500
ORTHO guide	Page 60
Trimmer discs	Page 61

Available soon

MT3

Wet trimmer

The MT3 wet trimmer is impressive due to its exceptionally powerful motor. With the MT3 Renfert provides high-performance trimming at a low price.

Advantages

- Quick change of the trimmer table angle using the practical tipping mechanism (90° / 98°).
- Safety: when the front door is opened a safety switch stops the motor and water.
- Uniform coverage by the optimally positioned spray tube prevents clogging of the trimmer disc.

Details

- Optimum view of the model due to a 10° inclination of the unit.
- Easy guidance of the plaster model with the aid of slotted angle lines on the trimmer table.



tool included



easy use



Uncompromisingly powerful - let it convince you:
www.renfert.com/mt3

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Power consumption	1300 W (230 V) 1325 W (120 V) 1.74 hp (230 V) 1.78 hp (120 V)
Motor performance (P1)	1300 W // 1.74 hp 1.78 hp
Motor performance (P2)	900 W // 1.21 hp 1.34 hp
Rotational speed	2880–3400 rpm
Water consumption max.	7 l/min // 0.25 cfm
Water pressure min. / max.	1–5 bar // 14.5–72.5 psi
Ø (Connection piece for drain hose)	36 mm // 1.42"
Ø (Trimmer disc)	234 mm // 9.2"
Dimensions (W x H x D)	305 x 330 x 410 mm // 12.0 x 13.0 x 16.2"
Weight (without trimmer disc)	~13,2 kg // ~29 lbs

Ordering information

MT3 incl. Klettfix trimmer disc, 220-240 V	No. 18080000
MT3 incl. Marathon trimmer disc, 220-240 V	No. 18080500
MT3 incl. Klettfix trimmer disc, 100-120 V	No. 18081000
MT3 incl. Marathon trimmer disc, 100-120 V	No. 18081500
MT3 100-120 V 50/60Hz JP + Klettfix trimmer disc	No. 18082000
ORTHO guide	Page 60
Trimmer discs	Page 61

MT plus

Wet and dry trimmer

The MT plus is a wet and dry trimmer. Pure power, even the hardest stone is easily removed thanks to the powerful motor performance.

Advantages

- The front door can be easily removed without the use of tools to allow easy, quick maintenance.
- Detachable trimmer table and spray tube enable very easy cleaning.
- Noise-reducing, scratch-resistant housing made from a special material (polyurethane).

Details

- The trimmer can be used for any model situation due to infinitely adjustable trimmer table.
- Integrated tool allows quick change of the trimmer disc.
- The motor and water is stopped by a safety switch when opening the door, providing a high degree of safety.



tool in-
cluded



easy use



Powerful wet and dry trimming with minimum vibrations

Technical data

Permissible mains voltage	220–230 V
Permissible mains frequency	50 Hz
Power consumption	1300 W // 1.74 hp
Motor performance (P1)	1300 W // 1.74 hp
Motor performance (P2)	900 W // 1.21 hp
Rotational speed	2850 rpm
Water consumption max.	9 l/min // 0.32 cfm
Water pressure min. / max.	1–5 bar // 14.5–72.5 psi
Ø (Connection piece for drain hose / external extraction)	36 mm // 1.42"
Ø (Trimmer disc)	234 mm // 9.2"
Dimensions (W x H x D)	300 x 320 x 410 mm // 11.8 x 12.6 x 16.2"
Weight (without trimmer disc)	~13,5 kg // ~30 lbs

Ordering information

MT plus incl. Klettfix trimmer disc, 220-230 V	No. 18030000
MT plus incl. Marathon trimmer disc, 220-230 V	No. 18030500
Trimmer discs	Page 61

NEW ORTHO guide

Retrofit set for orthodontic extension for MT premium or MT3



The ORTHO guide transforms MT premium and MT3 into special trimmers for orthodontic requirements.

Advantages

- Fast and precise bite oriented trimming of orthodontic models using an intuitive template and a special trimmer table.
- Greater precision and optimal alignment of the median palatine raphe thanks to a guide light (MT premium only).
- Exact milling of the tuber plane of the upper jaw model.
- Fabrication of exact three-dimensional oriented jaw models that take all skull planes into consideration.

Details

- Thanks to the special guidance concept, the template is not permanently installed in the unit and can therefore be easily removed without tools.
- Easy, fast, and tool-free cleaning of all components.
- Step-by-step instructions with upper and lower jaw reference models (also suitable for process documentation).

Further details

- The subsequent assembly does not require specialist staff and can easily be carried out by users themselves.



Technical data

Dimensions (W x H x D)	25 x 42 x 115 mm // 1 x 1,7 x 4,5"
Weight	~40 g // ~1.4 oz
Laser Class	1

Ordering information

ORTHO guide Set MT premium	No. 18070100
ORTHO guide Set MT3	No. 18080100

Available soon

Accessories

Trimmers

	Klettfix MT plus	The Klettfix system is the inexpensive solution for wet trimming. Tool-free change in a few seconds. Uniform surface finish and variable use of 80 or 120 grit size. High cutting capacity. For MT plus	5 x Klettfix (3 x corn 80, 2 x corn 120) + support disc	No. 18031000
	Klettfix MT3/MT3pro/MT premium	The Klettfix system is the inexpensive solution for wet trimming. Tool-free change in a few seconds. Uniform surface finish and variable use of 80 or 120 grit size. High cutting capacity. For MT premium, MT3	5 x Klettfix (3 x corn 80, 2 x corn 120) + support disc	No. 18031001
	Klettfix MT plus/MT3/MT3 pro/MT premium, refill kit corn 80	The Klettfix system is the inexpensive solution for wet trimming. Tool-free change in a few seconds. Uniform surface finish and variable use of 80 or 120 grit size. High cutting capacity. For MT premium, MT3, MT plus	5 x Klettfix	No. 18031100
	Klettfix MT plus/MT3/MT3 pro/MT premium, refill kit corn 120	The Klettfix system is the inexpensive solution for wet trimming. Tool-free change in a few seconds. Uniform surface finish and variable use of 80 or 120 grit size. High cutting capacity. For MT premium, MT3, MT plus	5 x Klettfix	No. 18031200
	Marathon MT plus	The partially diamond-coated disc is suitable for both wet and dry trimming. Electroplated diamond islands. High cutting capacity with low pressure application. Long service life. For MT plus	1 x Marathon	No. 18032000
	Marathon MT3/MT3 pro/MT premium	The partially diamond-coated disc is suitable for both wet and dry trimming. Electroplated diamond islands. High cutting capacity with low pressure application. Long service life. For MT premium, MT3	1 x Marathon	No. 18032001
	Infinity MT plus	The fully diamond-coated disc is suitable for all Renfert wet trimmers. A closed diamond surface produces a very smooth surface finish. Extremely resistant and durable. High cutting capacity. For MT plus	1 x Infinity	No. 18033000
	Infinity MT3/MT3 pro/MT premium	The fully diamond-coated disc is suitable for all Renfert wet trimmers. A closed diamond surface produces a very smooth surface finish. Extremely resistant and durable. High cutting capacity. For MT premium, MT3	1 x Infinity	No. 18033001

Millo pro

Dental arch trimmer



tool in-
cluded



easy use



compact

Compact dental arch trimmer with a powerful, maintenance-free motor, height-adjustable cutter and a direct electrical connection point for an extraction unit.

Advantages

- Safe processing even with difficult dental situations due to the height-adjustable cutter.
- Uncomplicated cutter change using the integrated tool key.
- Direct connection point for a suction unit without automatic switch-on function.

Details

- Easy cleaning thanks to detachable work table.
- Stable, non-tilting unit due to enlarged base surface.

Technical data

Permissible mains voltage	220–240 V 120 V
Permissible mains frequency	50/60 Hz 60 Hz
Rated speed	2770 rpm (50 Hz) 3350 rpm (60 Hz)
Max. permitted connected load of the plug-in socket	2200 VA (230 V) 1300 VA (120 V)
Total connected power	2320 VA (230 V) 1430 VA (120 V)
Dimensions (W x H x D)	214 x 207 x 252 mm // 8.4 x 8.2 x 9.9"
Weight	~5,7 kg // ~12.6 lbs

Ordering information

Millo pro, 220-240 V	No. 18050000
Millo pro, 120 V	No. 18051000
[1] Cutter tapered, cross-cut, 1 piece	No. 18060001
[2] Cutter tapered, coarse-cut, 1 piece	No. 18060002
[3] Cylindric bur, cross-cut, 1 piece	No. 18060003

Millo

Dental arch trimmer



tool in-
cluded



compact

Compact dental arch trimmer with powerful and maintenance-free motor.

Advantages

- Uncomplicated cutter change using the integrated tool key.
- Easy cleaning due to removable work table.
- Stable, non-tilting unit due to enlarged base surface.

Details

- Space-saving due to compact design.

Technical data

Permissible mains voltage	220–240 V 120 V
Permissible mains frequency	50/60 Hz 60 Hz
Rated speed	2770 rpm (50 Hz) 3350 rpm (60 Hz)
Dimensions (W x H x D)	214 x 207 x 252 mm // 8.4 x 8.2 x 9.9"
Weight	~5,7 kg // ~12.6 lbs

Ordering information

Millo, 220-240 V	No. 18040000
Millo, 120 V	No. 18041000
[1] Cutter tapered, cross-cut, 1 piece	No. 18060001
[2] Cutter tapered, coarse-cut, 1 piece	No. 18060002
[3] Cylindric bur, cross-cut, 1 piece	No. 18060003

AUTO spin

Pin drilling unit

Using the AUTOspin pin drill, precise working models with plastic base plates can be fabricated. Moreover, it is also compatible with other model-making systems like Giroform® or Zeiser®. When uniquely combined with perfectly matched materials of the AUTO spin model-making system, even the most sophisticated model fabrication is simple.

Advantages

- Time and cost saving due to reduced use of dental plaster.
- Safe positioning and alignment in challenging impression situations due to the innovative Renfert Level Controller.
- Flexible use for almost any plate geometry due to the universal plate holder with secure double fixation.

Details

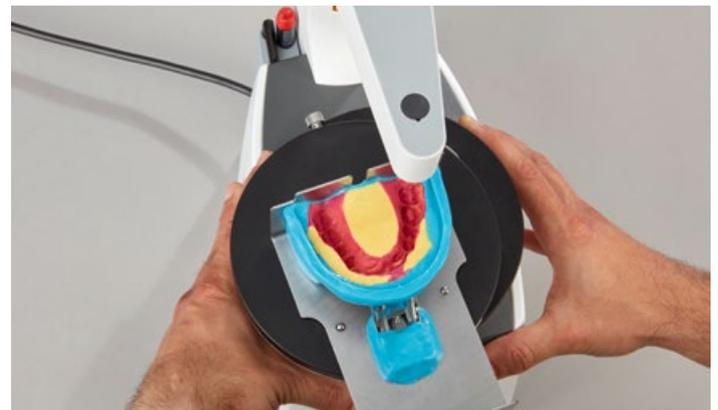
- Optimal friction of the pins due to holes drilled with high precision.
- High working comfort with the automatic drilling process.



tool included



easy use



Precise, fast and easy model fabrication

Technical data

Permissible mains voltage	220–240 V 120 V
Permissible mains frequency	50/60 Hz
Power consumption (during drilling)	115 W
Power consumption (Stand by mode)	1,5 W
Laser Class	2
Laser Wavelength	630–680 nm
Output power PD	1 mW
Sound pressure level (LpA) (in accord. with DIN EN ISO 11202)	70 dB (A)
Dimensions (W x H x D)	180 x 368 x 275 mm // 7.1 x 14.5 x 10.8"
Permissible drill shaft diameter Ø	3 mm (+0 mm /- 0.006 mm)
Permissible drill length	38–40 mm // 1.5–1.57"
Weight	~7,6 kg // ~16.8 lbs

Ordering information

AUTO spin, 220–240 V	No. 18600000
AUTO spin, 120 V	No. 18601000
AUTO spin cone pin	Page 123
AUTO spin system components	Page 66

AUTO spin system components

Model production systems

The AUTO spin system components are integral parts of the AUTO spin model-making system. When uniquely combined with the AUTO spin pin drill, the perfectly matched materials of the AUTO spin model-making system turns even the most sophisticated model fabrication into child's play.

Advantages

- Optimal matched system components for reproducible model quality.
- Compatible with other model-making systems, like Giroform® or Zeiser®.

AUTO spin base plate comfort

Secure fixation and easy pin removal due to stable acrylic base plates with metal disc.

AUTO spin base plate standard

Secure fixation and easy pin removal due to stable acrylic base plates without metal disc.

AUTO spin secondary plate

Perfect fit between base and secondary plate.

AUTO spin silicone putty

Silicone putty for fixing, aligning and blocking-out.

AUTO spin pin drill

Special cutting geometry for smooth inner surfaces and low compressive stress during drilling

AUTO spin cone pin

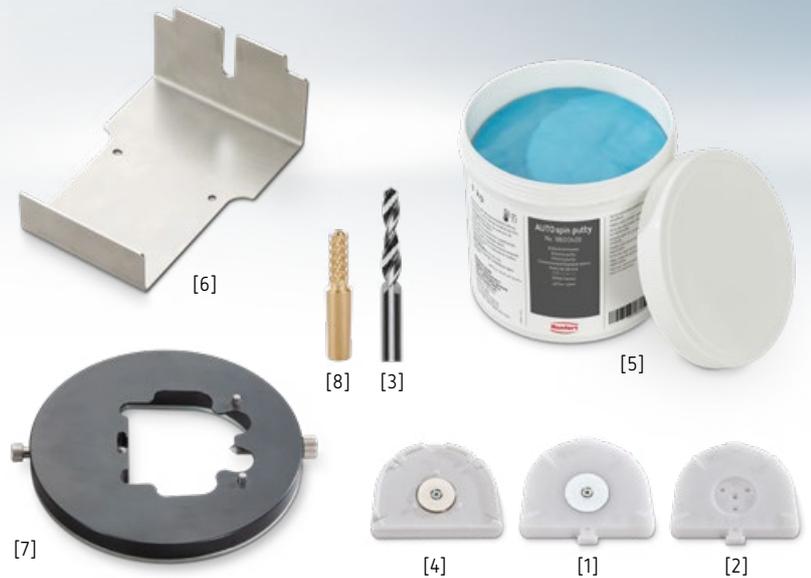
Cone pin of 14 mm (0.55") in length for Renfert's AUTO spin system, Giroform®, Zeiser® or similar systems.

AUTO spin universal plate holder

Flexible use of virtually every plate geometry possible with secure dual fixation

AUTO spin universal impression holder

Dimensionally stable, stainless steel impression holder.



Universal compatible with comparable model systems

Ordering information

[1] AUTO spin base plate comfort	100 pieces	No. 18600200
[2] AUTO spin base plate standard	100 pieces	No. 18600100
[3] AUTO spin cone pin drill	1 piece	No. 18600500
[4] AUTO spin secondary plate	50 pieces	No. 18600300
[5] AUTO spin silicone putty	1 kg	No. 18600400
[6] AUTO spin universal impression holder	1 piece	No. 18600700
[7] AUTO spin universal plate holder	1 piece	No. 18600600
[8] AUTO spin cone pin	1000 pieces	No. 3692000

Top spin

Pin drilling unit

The Top spin pin drilling unit offers additional precision, safety, and durability. Its exceptional concentric precision and special drill technology make it unique.

Advantages

- Drilling precision of ≤ 0.01 mm thanks to sophisticated shaft-bearing technology.
- High-torque motor with no power loss when drilling (8000 rpm).
- Extremely easy drilling with no resistance thanks to a special drill geometry.

Details

- Two unit positions and different gripping options for fixing the dental arch in position enable an individual, ergonomic working posture.
- The individual, infinitely variable drill-depth setting of 0–20 mm (0–0.79") also allows drilling for pin systems with resin plates.
- With adjustment it is also possible to use drills with a longer shaft.
- Compact design with a high degree of stability.

Safety and simple operation

- The special drill geometry reduces the force during drilling by up to 50%. This means safety, even with dental arches that are at risk of fracture.
- A quick-release mechanism enables easy, tool-free drill change.
- The unique dust control and easily removable dust drawer with a filling level overview ensures a clean, comfortable workstation.



tool included



easy use



The special drill geometry reduces the force during drilling by over 50%, thus reducing the risk of breaking dental arches.

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Power consumption (during drilling)	12 W
Power consumption (Stand by mode)	0,7 W
Laser Class	2
Rotational speed	8000 rpm
Dimensions (W x H x D)	153 x 330 x 175 mm // 6.0 x 13.0 x 6.9"
Permissible drill shaft diameter \varnothing	3 mm (± 0.03 mm)
Permissible drill length	34–46 mm // 1.34–1.81"
Weight	~4 kg // ~8.8 lbs

Ordering information

Top spin, 120-240 V	No. 18400000
Top spin, 100-120 V	No. 18401000
Pin drills	Page 66

Accessories

Pin drilling units

	AUTO spin cone pin	Cone pin of 14 mm (0.55") in length for Renfert's AUTO spin system, Giroform®, Zeiser® or similar systems. For AUTO spin	1000 pieces	No. 3692000
	AUTO spin base plate standard	Secure fixation and easy pin removal due to stable acrylic base plates without metal disc. For AUTO spin	100 pieces	No. 18600100
	AUTO spin base plate comfort	Secure fixation and easy pin removal due to stable acrylic base plates with metal disc. For AUTO spin	100 pieces	No. 18600200
	AUTO spin secondary plate	Perfect fit between base and secondary plate. For AUTO spin	50 pieces	No. 18600300
	AUTO spin silicone putty	Silicone putty for fixing, aligning and blocking-out. For AUTO spin	1 kg	No. 18600400
	AUTO spin cone pin drill	Special cutting geometry for smooth inner surfaces and low compressive stress during drilling. Ø: 3 mm (0.12"), Length: 39 mm (1.53") For AUTO spin	1 piece	No. 18600500
	AUTO spin universal plate holder	Flexible use of virtually every plate geometry possible with secure dual fixation. For AUTO spin	1 piece	No. 18600600
	AUTO spin universal impression holder	Dimensionally stable, stainless steel impression holder. For AUTO spin	1 piece	No. 18600700
	Bi-Pin drill bit	For use with a handpiece for drilling pin holes. For Bi-Pin and Bi-V-Pin. Optimum drill depth on impact. Drilling depth 6,5 mm (0.26"), Ø drill head 2,0 mm (0.08"), Ø shaft 2,35 mm (0.09"). For Top spin	3 pieces	No. 3470000

Accessories

Pin drilling units

	Smart-Pin drill bit small	Very high service life, special blade geometry ensures very low drill resistance, maximum rotational symmetry. Suitable for use with all pins with a pin head \varnothing of 1.6 mm, especially for our Smart-Pin/ Profix. Drilling depth 10,5 mm (0.41"), \varnothing drill head 1,57 mm (0.061"), \varnothing shaft 3,0 mm (0.12"). For Top spin	3 pieces	No. 3670157
	Smart-Pin drill bit medium	Very high service life, special blade geometry ensures very low drill resistance, maximum rotational symmetry. Suitable for use with all pins with a pin head \varnothing of 1.6 mm, especially for our Smart-Pin/ Profix. Drilling depth 10.5 mm (0.41"), \varnothing drill head 1.57 mm (0.061"), \varnothing shaft 3.0 mm (0.12"). For Top spin	3 pieces	No. 3670159
	Smart-Pin drill bit large	Very high service life, special blade geometry ensures very low drill resistance, maximum rotational symmetry. Suitable for use with all pins with a pin head \varnothing of 1.6 mm, especially for our Smart-Pin/ Profix. Drilling depth 10,5 mm (0.41"), \varnothing drill head 1,61 mm (0.063"), \varnothing shaft 3,0 mm (0.12"). For Top spin	3 pieces	No. 3670161
	Stepped pin drill bit small	Very high service life, special blade geometry ensures very low drill resistance, maximum rotational symmetry. Suitable for use with all pins with a pin head \varnothing of 2 mm, in particular for our Bi/ Bi-V pins. Drilling depth 5,8 mm (0.23"), \varnothing drill head 1,98 mm (0.078"), \varnothing shaft 3,0 mm (0.12"). For Top spin	3 pieces	No. 50100198
	Stepped pin drill bit medium	Very high service life, special blade geometry ensures very low drill resistance, maximum rotational symmetry. Suitable for use with all pins with a pin head \varnothing of 2 mm, in particular for our Bi/ Bi-V pins. rilling depth 5,8 mm (0.23"), \varnothing drill head 2,0 mm (0.079"), \varnothing shaft 3,0 mm (0.12"). For Top spin	3 pieces	No. 50100200
	Stepped pin drill bit large	Very high service life, special blade geometry ensures very low drill resistance, maximum rotational symmetry. Suitable for use with all pins with a pin head \varnothing of 2 mm, in particular for our Bi/ Bi-V pins. Drilling depth 5,8 mm (0.23"), \varnothing drill head 2,02 mm (0.08"), \varnothing shaft 3,0 mm (0.12"). For Top spin	3 pieces	No. 50100202

Wax Technology



easy use

This is what makes work easier

- no overheating of the wax (temperature setting from 50°–200°C)
- 50–70% time saving
- easy operation



Fewer steps and save up to 70% time

Heating over a Bunsen burner is no longer required in crown and bridge work in combination with the Waxlectric and Vario E. You can efficiently prepare and apply wax in the partial and full denture technique using the Waxprofi and large wax knife.



Prepare in minimum time

The wide variety of Renfert sculpting tips for the wax technique ensures that you can optimally utilize your required instrument for each area of application. This also includes a flexible temperature setting of 50°–200°C.



Take advantage of a coordinated system

The wax units develop their full potential when used in combination with GEO waxes. These waxes are suitable for processing both with a Bunsen burner as well as for optimized processing using the Waxlectric.

Overview

Wax Technology

	Name	Electric wax knife	Wax warmer	Wax dipping pot	Safety burner	Bunsen burner	Page
	Vario E		■				70
	hotty LED			■			71
	hotty			■			71
	Waxprofi		■				72
	Waxelectric I	■					73
	Waxelectric II	■					73
	Waxelectric light I	■					74
	Waxelectric light II	■					74
	Safety burner eco				■		75
	Bijou 90					■	75

Vario E

Wax warmer

The Vario E allows you to keep your sculpting wax at the required working temperature. Protect your wax against too high temperatures, your sculpting tips against mechanical loading and your wax pattern against high stresses.

Advantages

- 30% saving in time due to the preheating function.
- Multi-functionality provided by three wax pots with separate control.
- Individual setting of the wax consistency (from creamy to fluid) using infinitely variable temperature setting of 45–110° C (113–230° F).

Details

- The permanent temperature control of the actual value input is indicated by the LED display.
- Also suitable for processing light-curing waxes.
- Ergonomic working height ensures relaxed working.
- The deep wax pot is ideal for dipping copings.



Gentle and stress-free wax processing due to optimally adjusted processing temperatures

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Power consumption	85 W
Working temperature min./max.	45–110 °C // 113–230 °F
Dimensions (W x H x D)	178 x 54 x 120 mm // 7.01 x 2.13 x 4.72"
Weight (filled)	~660 g // ~23.3 oz

Ordering information

Vario E, 220-240 V	No. 14520000
Vario E, 100-120 V	No. 14521000

hotty LED

Wax dipping pot



The reliable wax dipping pot with LED display and membrane keypad for the even and accurate heating temperature of dipping waxes.

Advantages

- Suitable for all dipping waxes due to the temperature setting of 60 – 110°C (140 – 230°F).
- Uniform wax layer thickness of the coping due to even temperature distribution.
- Making ideal use of the wax properties thanks to the true temperature value in the area where the dies are dipped.

Details

- Saves working time due to fast and consistent heating phase.

Features

The membrane keypad of the hotty LED enables the temperature to be set accurately to within a degree. The temperature status is permanently indicated by the LED display.

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Power consumption	25 W
Working temperature min./ max.	60–110 °C // 140–230 °F
Dimensions (W x H x D)	90 x 65 x 98 mm // 3.54 x 2.56 x 3.86"
Weight	~400 g // ~14.1 oz

Ordering information

hotty LED, 220-240 V	No. 14610000
hotty LED, 100-120 V	No. 14611000
GEO Dip	Page 140

hotty

Wax dipping pot



Reliable wax dipping pot with a potentiometer for uniform heating of dipping waxes.

Advantages

- Suitable for all dipping waxes due to infinitely variable temperature setting from 60 to 110°C (140 – 230°F).
- Uniform wax layer thickness due to even temperature distribution.
- Saves time during working thanks to the quick and consistent heating up phase.

Details

- Actual value indication in the dipping area of the dies.
- Ergonomically contoured housing provides optimal support for the fingers.
- No contamination of the unit by wax residue thanks to the specially designed wax runback pot.
- The integrated lid provides protection against dirt and dust.

Features

The hotty allows for temperature input and display via a potentiometer.

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Power consumption	25 W
Working temperature min./ max.	60–110 °C // 140–230 °F
Dimensions (W x H x D)	90 x 65 x 98 mm // 3.54 x 2.56 x 3.86"
Weight	~360 g // ~12.7 oz

Ordering information

hotty, 220-240 V	No. 14600000
hotty, 100-120 V	No. 14601000
GEO Dip	Page 140

Waxprofi

Wax warmer

Your individual skill is required to give a denture freshness and vitality. Our Waxprofi is required to implement this efficiently. Experience how easy setting-up has become.

Advantages

- 50% saving in time due to the preheating function.
- Individual setting of the wax consistency (from creamy to fluid) using infinitely variable temperature setting of 40–110° C (104–230° F).
- Work without continually refilling due to a large volume pot (110 ml / 3.72 fl.oz.).

Details

- Ergonomic height ensures easy uptake of wax portions.
- Clean handling due to functional pot design.
- Integrated lid protects the wax.
- Suitable for the use of light-curing waxes.

Making work easy

70% time-saving is achieved by using the combination of Waxlectric and Waxprofi, as heating the instrument over a Bunsen burner is no longer required.



Fast and safe achievement of the right temperature and consistency

Technical data

Permissible mains voltage	220–240 V 100–120 V
Permissible mains frequency	50/60 Hz
Nominal voltage	230 V 120 V
Power consumption	120 W (230 V) 120 W (120 V)
Working temperature min./ max.	40–110 °C // 104–230 °F
Volume (Usable pot volume)	110 ml // 3.72 fl.oz.
Volume (Pot size)	185 ml // 6.26 fl.oz.
Dimensions (W x H x D)	178 x 54 x 120 mm // 7.01 x 2.13 x 4.72"
Weight (filled)	~600 g // ~21.2 oz

Ordering information

Waxprofi, 220–240 V	No. 14400000
Waxprofi, 100–120 V	No. 14401000

Waxlectric I

Electric wax knife



easy use



Waxlectric I is the professional introduction to the electric wax knife range.

Advantages

- Temperature setting to a precise degree ensures controlled working processes.
- Direct access of preferred working temperatures using the programming function.
- Fast heat-up rate and low heat transfer to the handle thanks to the heating element integrated in the tip.

Details

- Integrated holders provide ergonomic access to the hand-piece and exchange tips.
- Direct setting of the maximum or minimum temperature.
- Daylight operable 3-figure LED display.
- Color-coded for controlled management of the handpiece.

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Supply voltage	12 V DC
Output power	5 W
Transformer input voltage	100–240 V AC (50 Hz) 100–120 V AC (50 Hz)
Transformer output voltage	12 V DC (1 A)
Working temperature min./ max.	50–200 °C // 122–392 °F
Handpiece cable length	85 cm // 33.5"
Dimensions (W x H x D)	120 x 60 x 98 mm // 4.72 x 2.36 x 3.86"
Weight (with mains unit)	~430 g // ~15.2 oz
Weight (without mains unit)	~240 g // ~8.5 oz

Ordering information

Waxlectric I, 220–240 V	No. 21560000
Waxlectric I, 100–120 V	No. 21561000
Sculpting tips	Page 76

Waxlectric II

Electric wax knife



easy use



Waxlectric II is the professional device in the electric wax knife range which can be operated with two handpieces simultaneously.

Advantages

- Temperature setting to a precise degree ensures controlled working processes.
- Direct access of preferred working temperatures using the programming function.
- Fast heat-up rate and low heat transfer to the handle thanks to the heating element integrated in the tip.

Details

- Integrated holders provide ergonomic access to the hand-pieces and exchange tips.
- Direct setting of the maximum or minimum temperature.
- Daylight operable 3-figure LED display.
- Both channels can be set separately with the Waxlectric II.
- Color-coded for controlled management of the handpieces.

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Supply voltage	12 V DC
Output power	10 W
Transformer input voltage	100–240 V AC (50 Hz)
Transformer output voltage	12 V DC (1 A)
Working temperature min./ max.	50–200 °C // 122–392 °F
Handpiece cable length	85 cm // 33.5"
Dimensions (W x H x D)	150 x 60 x 98 mm // 5.91 x 2.36 x 3.86"
Weight (with mains unit)	~460 g // ~16.2 oz
Weight (without mains unit)	~270 g // ~9.5 oz

Ordering information

Waxlectric II, 220–240 V	No. 21570000
Waxlectric II, 100–120 V	No. 21571000
Sculpting tips	Page 76

Waxlectric light I

Electric wax knife



Waxlectric light I is the perfect introduction to efficient wax-up technology.

Advantages

- Fast heat-up rate and low heat transfer to the handle thanks to the heating element integrated in the tip.
- Less contraction in the pattern, as the wax is neither overheated nor burned.
- Easy temperature control via a potentiometer.

Details

- The technician can concentrate more on the pattern and less on the tools and instruments.

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Supply voltage	12 V DC
Output power	5 W
Transformer input voltage	100–240 V AC
Transformer output voltage	12 V DC (1 A)
Working temperature min./ max.	50–200 °C // 122–392 °F
Handpiece cable length	85 cm // 33.5"
Dimensions (W x H x D)	91 x 53 x 80 mm // 3.58 x 2.09 x 3.15"
Weight (with mains unit)	~410 g // ~14.5 oz
Weight (without mains unit)	~220 g // ~7.8 oz

Ordering information

Waxlectric light I, 220–240 V	No. 21500000
Waxlectric light I, 100–120 V	No. 21501000
Further accessories	Page 77
Sculpting tips	Page 76

Waxlectric light II

Electric wax knife



Waxlectric light II, which can be operated with two handpieces simultaneously, is the introductory device for efficient wax-up technology.

Advantages

- Fast heat-up rate and low heat transfer to the handle thanks to the heating element integrated in the tip.
- Less contraction in the pattern, as the wax is neither overheated nor burned.
- Separately adjustable temperature.

Details

- The technician can concentrate more on the pattern and less on the tools and instruments.
- The Waxlectric II can be operated with two handpieces simultaneously.

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Supply voltage	12 V DC
Output power	10 W
Transformer input voltage	100–240 V AC
Transformer output voltage	12 V DC (1 A)
Working temperature min./ max.	50–200 °C // 122–392 °F
Handpiece cable length	85 cm // 33.5"
Dimensions (W x H x D)	91 x 53 x 80 mm // 3.58 x 2.09 x 3.15"
Weight (with mains unit)	~430 g // ~15.2 oz
Weight (without mains unit)	~240 g // ~8.5 oz

Ordering information

Waxlectric light II, 220–240 V	No. 21510000
Waxlectric light II, 100–120 V	No. 21511000
Further accessories	Page 77
Sculpting tips	Page 76

Safety burner eco

Safety burner



easy use



The eco safety burner is a single tube safety burner for use with liquid gas and natural gas E.

Details

- High degree of safety due to automatic shut-off of the gas supply if the flame is extinguished unintentionally.
- Quick cleaning of the easily detachable collector tray.
- Tested quality and safety thanks to the DVGW type-examination certificate according to DIN 30665-1.

Note

Always use the liquid gas Bunsen burner with a pressure reducer at a fixed setting (50 mbar).

Technical data

Rated output	650 W 450 W
Connection hose (norm)	DIN 30664
Connection pressure	50 mbar 20 mbar
Ø (Nozzle)	0,34 mm 0,55 mm // 13.4 mil 21.7 mil
Consumption	50 g/h 48 l/h // 1.76 oz/h 1.7 ft ³ /h
Ambient temperature max. (Ambient temperature max.)	40 °C // 104 °F
Dimensions (W x H x D)	141 x 102 x 121 mm // 5.6 x 4.0 x 4.8"
Weight	~460 g // ~16.2 oz

Ordering information

Safety burner eco, Liquid gas	No. 9340100
Safety burner eco, Natural gas E	No. 9350100

Bijou 90

Bunsen burner



easy use



Bijou 90 is a two-tube burner for use with liquid gas and natural gas E.

Details

- Two riser tubes provide the choice of flame intensity.
- Individual adjustment of the gas supply (rocker lever) and oxygen supply (adjustment wheel).
- Tested quality and safety thanks to the DIN-DVGW type-examination certificate according to DIN 30665-1.

Note

Always use the liquid gas Bunsen burner with a pressure reducer at a fixed setting (50 mbar).

Technical data

Height (depending on the angle)	102-109 mm // 4.02-4.29"
Rated output	660 W
Connection hose (norm)	DIN 30664
Connection pressure	50 mbar 20 mbar
Ø (Nozzle)	0,34 mm 0,55 mm // 13.4 mil 21.7 mil
Consumption	48 g/h 63 l/h // 1.69 oz/h 2.2 ft ³ /h
Ambient temperature max. (Ambient temperature max.)	40 °C // 104 °F
Dimensions (W x H x D)	100 x 109 x 60 mm // 3.94 x 4.29 x 2.36"
Weight	~530 g // ~18.7 oz

Ordering information

Bijou 90, Liquid gas	No. 9600000
Bijou 90, Natural gas E	No. 9610000

Accessories

Wax Technology

	GEO Dip, yellow-transparent	Yellow For hotty LED, hotty	~200 g (7 oz.)	No. 4823000
	GEO Dip, orange-transparent	Orange For hotty LED, hotty	~200 g (7 oz.)	No. 4823200
	GEO Dip, green-transparent	Green For hotty LED, hotty	~200 g (7 oz.)	No. 4823300
	Tip small	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550101
	Tip medium	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550102
	Tip large	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550103
	Knife narrow	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550104
	Knife wide	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550105
	Knife chamfered	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550106
	Hollenback horizontal	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550107

Accessories

Wax Technology

	Hollenback vertical	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550108
	Tip mini, angled	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550109
	Lancet blade	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550110
	Beavertail blade	For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550111
	Large wax knife	Ideal for taking up large and small amounts of wax. For Waxlectric I, Waxlectric II, Waxlectric light I, Waxlectric light II	1 piece	No. 21550112
	Holder set	Holder set for use with Waxlectric light I and II. Quick access to up to 6 sculpting tips. Clean storage of the handpieces. Easy cleaning of the removable, steam- cleaning resistant, individual components. For Waxlectric light I, Waxlectric light II	1 Set	No. 21511500

Magma

Preheating furnace

Magma is a preheating furnace with all the technical features, which fulfill all the requirements in terms of programming, handling and ergonomics.

Advantages

- Four-sided heating ensures uniform heating in the entire furnace chamber.
- Quick heat rate: to 900°C (1654°F) in only 60 min.
- 99 Program storage spaces + 1 Program for speed investments.

Temperature

- The one-piece furnace chamber prevents localized heat loss, which is otherwise caused by joints.
- Guarantees uniform temperature distribution due to the high density of heating coils in thermally demanding zones.



easy use



Flexibility: 9 x #3, 4 x #6, 3 x #9 casting rings

Technical data

Permissible mains voltage	220–240 V
Permissible mains frequency	50/60 Hz
Power consumption	1900 W
Mains input fuse	12 A (T)
Temperature range	0–1100 °C // 30–2010 °F
Programmable heating rate	0–9 °C/min // 0–17 °F/min
Max. heat-up rate in 1 hour	900 °C // 1652 °F
Number of programmable stage programs	99
Number of speed programs	1
Volume (Muffle)	3,45 l // 0.91 gal
Type temperature sensor	PtRh-Pt
Dimensions (W x H x D) (incl. one handle and flue)	430 x 500 x 440 mm // 16.9 x 19.7 x 19.3"
Dimensions (W x H x D) (incl. one handle and catalyst converter)	430 x 610 x 550 mm // 16.9 x 24.0 x 21.7"
Dimensions (W x H x D) (muffle)	160 x 120 x 180 mm // 6.3 x 4.7 x 7.1"

Weight (incl. flue)	~30 kg // ~66.1 lbs
Weight (incl. catalyst converter)	~34,8 kg // ~76.7 lbs

Ordering information

Magma, 220-240 V	No. 23000000
Magma for use with catalyst converter, 220–240 V	No. 23000500
Catalyst converter, 220-240 V, 1 piece	No. 23000001

Power pillo

Deflasking chisel



[1] [2]

With great running smoothness, laboratory-fabricated restorations are gently, quickly and easily deflasked using the Power pillo.

Advantages

- Save time and money with powerful and gentle devesting of sensitive restorations (castings, dentures).
- Absolutely maintenance-free due to special oil-free mechanism.
- Maximum health protection provided by minimal transmission of vibration to the joints.

Details

- Infinitely variable power setting.
- Four different tungsten carbide chisel inserts are optionally available.
- The ergonomic form provides an optimum, reliable grip and a high degree of working comfort.

Features

The Power pillo delivers a higher performance, smoother running and a quick-release coupling connection.

Technical data

Nominal operating pressure	5 bar // 72 psi
Operating pressure	4–6 bar // 58–87 psi
Air consumption, max.	10 l/min // 0.35 cfm
Hand / arm vibration (Ahv) (in accord. with EN ISO 5349-1)	5.2 m/s ²
Dimensions (Ø x Length)	Ø 29 x 168 mm // Ø 1.14 x 6.6"
Weight	~398 g // ~14 oz

Ordering information

Power pillo	No. 50225000
[1] Flat chisel, narrow, 1 piece	No. 50220100
[2] Flat chisel, wide, 1 piece	No. 50220200

Pillo

Deflasking chisel



[1] [2]

Laboratory-fabricated restorations are gently, quickly and easily deflasked using the Pillo.

Advantages

- Save time and money with powerful and gentle devesting of sensitive restorations (castings, dentures).
- Absolutely maintenance-free due to special oil-free mechanism.
- Maximum health protection provided by minimal transmission of vibration to the joints.

Details

- Infinitely variable power setting.
- Four different tungsten carbide chisel inserts are optionally available.
- The ergonomic form provides an optimum, reliable grip and a high degree of working comfort.

Technical data

Nominal operating pressure	5 bar // 72 psi
Operating pressure	4–6 bar // 58–87 psi
Air consumption, max.	9 l/min // 0.32 cfm
Hand / arm vibration (Ahv) (in accord. with EN ISO 5349-1)	7.3 m/s ²
Dimensions (Ø x Length)	Ø 29 x 157 mm // Ø 1.14 x 6.2"
Weight	~300 g // ~10.6 oz

Ordering information

Pillo	No. 50224000
[1] Flat chisel, narrow, 1 piece	No. 50220100
[2] Flat chisel, wide, 1 piece	No. 50220200

NEW SYMPRO

Denture cleaning unit

Compact denture cleaning unit especially suitable for cleaning removable dental restorations, orthodontic appliances and splints.

Advantages

- Customer retention – a prophylaxis service for denture wearers.
- Processing reliability - validated, hygienic reprocessing of system components.
- Patient satisfaction – externally tested material compatibility with standard dental materials.

Details

- Positive effect on the patient's overall health due to regular denture cleaning.
- High time savings compared to manual methods thanks to effective and automated cleaning process.
- Optimized pin geometry for gentle and at same time effective cleaning.
- High cleaning performance due to optimal bowl inclination.
- Easy cleaning of temporary restorations in combination with SYMPRO mini cup and temp:ex temporary cement remover.

Tip

For the help:ex cleaning agents that go with the SYMPRO denture cleaning unit, see Materials in the Cleaning Agents chapter.

Making work easy

Uncompromising cleaning with SYMPRO system. The effective help:ex cleaning agents are available for cleaning with the SYMPRO denture cleaning unit.



easy use



silent



compact



Before and after cleaning with SYMPRO and help:ex

Technical data

Permissible mains voltage	100–240 V
Permissible mains frequency	50/60 Hz
Power consumption	90 VA
Cleaning intensity	low / medium / high
Dimensions (W x H x D)	150 x 240 x 280 mm // 5.91 x 9.45 x 11.02"
Weight (without bowl)	~3 kg // ~6.6 lbs

Ordering information

SYMPRO, 100-240 V	No. 67001000
Further accessories	Page 83
help:ex (previously SYMPROfluid)	Page 81

NEW help:ex

Cleaning agent

Effective cleaning agents are available for cleaning with the SYMPRO denture cleaning unit. They are all safe to use due to proven material compatibility with the most common dental materials.

Advantages

- Easy and effective removal of hard and soft deposits on prosthetic restorations, orthodontic appliances and splints, with proven material compatibility.
- Efficient cleaning with ready-to-use liquids that are specially adapted for individual stains.
- Eco-friendly use with powder in portioned sachets and a corresponding neutralizer.

Tip

The cleaning powder help:ex plaque p can be easily disposed of by proven neutralization of the cleaning liquid in the SYMPRO denture cleaning unit.

MD



Easy disposal through neutralization of help:ex plaque p (Please observe local instructions for disposal)



A perfect match: the help:ex cleaning liquids and the SYMPRO denture cleaning device

Overview

	help:ex plaque p	help:ex plaque f	help:ex discolor f
Plaque, tartar	■	■	
Coffee, tea, tar			■
Typical contamination	■		
Heavy contamination		■	■
NEW Neutralization	■		
Presentation	Powder	Liquid	Liquid

Ordering information

help:ex plaque f	4 x 1 l (4 x 0.26 gal)	No. 67000100
help:ex plaque p	20 x 20 g cleaning powder + 20 x 4.5 g neutralizer	No. 67000000
help:ex discolor f	1 l (0.26 gal)	No. 67000200
Further accessories		Page 83

Easyclean

Ultrasonic cleaning unit



Ultrasonic cleaning device with optimized sound frequency for intensive and gentle cleaning.

Advantages

- Very good cleaning results using the optimally coordinated ultrasonic high-performance transducer system (37 kHz).
- Quick, optimal cleaning capacity due to degassing of the cleaning fluid (degas function).
- Uniform cleaning intensity on large items based on permanent displacement of the pressure wave peaks (sweep function).

Details

- Adjustable heating in 5°C increments (heat range 30–80°C / 86–176°F).

Suitable accessories

Ultrasonic cleaning agent – the useful addition for a perfect cleaning result.



Significantly reduces cleaning time, e.g. for plaster or alginate removal

Technical data

Permissible mains voltage	220–240 V 120 V 100 V
Permissible mains frequency	50/60 Hz
Power consumption	280 W
Ultrasonic frequency	37 kHz
Ultrasonic effective power	80 W
Heating power	200 W
Dimensions (W x H x D) (Tank, inner dimensions)	240 x 100 x 137 mm // 9.5 x 3.9 x 5.4"
Dimensions (W x H x D) (Device, exterior size)	300 x 214 x 179 mm // 11.8 x 8.4 x 7.1"
Weight	~3,3 kg // ~7.3 lbs
Volume (Tank, max. volume)	2,75 l // 0.73 gal
Volume (Tank operating volume)	1,9 l // 0.5 gal

Ordering information

Easyclean, 220–240 V	No. 18500000
Easyclean, 120 V	No. 18501000
Further accessories	Page 83
GO 2011 speed	Page 151

Accessories

Cleaning devices

	GO 2011 speed	Suitable for cleaning different instruments and aids quickly and thoroughly in only 50% of the time in comparison to conventional plaster and alginate solvents. For Easyclean	2 l (0.53 gal)	No. 20120000
	Plastic lid, gray	Quicker heating. Protects against evaporation and dust infiltration. For Easyclean	1 piece	No. 18500001
	Stainless steel cover	Cover for use with the cleaning jar or plastic cup with lid. For Easyclean	1 piece	No. 18500002
	Stainless steel basket	For storage of cleaning items. To protect the floor of the ultrasonic tank. For Easyclean	1 piece	No. 18500003
	Stainless steel immersion basket	For cleaning small and very delicate items. For use with the stainless steel cover or with the cleaning jar. For Easyclean	1 piece	No. 18500004
	Plastic acid bath insert	For acids and fluids not suitable for use in the stainless steel tank. For Easyclean	1 piece	No. 18500005
	Cleaning jar	For the use of additional cleaning liquids. For use in the stainless steel cover. 600 ml For Easyclean	1 piece with lid and rubber band	No. 18500006
	Plastic cup with lid	Ideal for cleaning smaller items and working with acids. Can be also used in conjunction with the stainless steel cover. For Easyclean	1 piece	No. 18500007
	SYMPRO mini-cup set	Hygienically reprocessable cup (for 4 single crowns or up to 4 unit bridges) for cleaning small objects in the SYMPRO denture cleaning unit. For SYMPRO, help:ex, temp:ex, help:ex	1 mini-cup incl. adapter ring and cleaning needles	No. 65000410

Accessories

Cleaning devices

	SYMPRO beaker disinfectable	For SYMPRO, help:ex, help:ex	1 piece	No. 65000450
	SYMPRO Retrofit set	Retrofit set with disinfectable SYMPRO cleaning beaker. For SYMPRO	1 cleaning beaker, 1 cleaning needles and 1 manual for hygienic preparation	No. 65000460
	SYMPRO cleaning pins	The rotating needles heat up the cleaning solution to approx. 45°C (113°F), which accelerates the chemical reaction. The needles are made of an acid-resistant alloy. They are cut precisely at right angles and also designed for maximum efficiency and durability. This has the effect of increasing efficiency while at the same time protecting the surface of the object. For SYMPRO	75 g (2.63 oz.)	No. 65000550

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INSTRUMENTS

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Mixing trays

This is what makes work easier

- large selection of different moistening systems
- ergonomic design
- rewritable foil in the lid
- ingenious ventilation system
- integrated support surface



Find optimum instruments

Ten mixing trays with and without moistening function and ten sizes of brushes with different shapes are available in the lay:art system. This allows you to find your individual combination of mixing tray and brush.



Work cleanly, reliably and carefully

Integrated anti-surge ridges and recessed grips ensure safe transport. The rewritable foil in the lid ensures organized management of the porcelains on the tray. A practical feature: the support surface for brushes and instruments in the large housing.



Keep your porcelains well preserved

The housing lid protects the porcelains against drying out and contamination. The ingenious ventilation system inhibits the formation of mold (with proper use) and ensures hygienic working.

Overview

Mixing trays

	Name	Full-surface moistening	Partial moistening	Without moistening	Page
	lay:art crystal aqua		■		88
	lay:art tropic pro	■			88
	lay:art tropic	■			88
	lay:art oasis		■		89
	lay:art crystal			■	89
	lay:art natural			■	89
	lay:art color			■	90
	Rainbow		■		90
	Stain-Mix			■	90

lay:art crystal aqua

Mixing Tray

Partially self-moistening glass mixing tray with two moistening strips.

Advantages

- Gentle on the brush and completely abrasion free using float glass.
- Homogeneous moistening and consistency of the porcelain thanks to dimensionally stable and durable moistening strips.
- Optimal moisture transport ensures there is no formation of microbubbles or porosity.



Ordering information

lay:art crystal aqua xl	220 x 4 x 120 mm 8.67 x 0.16 x 4.73"	291 x 36 x 223 mm 11.47 x 1.42 x 8.79"	No. 10431000
lay:art crystal aqua s	159 x 4 x 90 mm 6.26 x 0.16 x 3.55"	211 x 28 x 147 mm 8.31 x 1.10 x 5.79"	No. 10432000
Moistening strip crystal aqua xl, 12 pieces			No. 10431010

lay:art tropic pro

Mixing Tray

Homogeneous, diffusible high-tech porcelain tray with wells and continuous moistening.

Advantages

- Ideal porcelain consistency due to uniform, continuous moistening of the porcelain.
- Individual control of the optimum porcelain consistency thanks to the sophisticated mixing well geometry.
- 12 (xl)/4 (s) large and 5 (xl)/4 (s) small mixing wells provide space for structured working.



Ordering information

lay:art tropic pro xl	220 x 11 x 120 mm 8.67 x 0.43 x 4.73"	291 x 36 x 223 mm 11.47 x 1.42 x 8.79"	No. 10450000
lay:art tropic pro s	159 x 11 x 90 mm 6.26 x 0.43 x 3.55"	211 x 28 x 147 mm 8.31 x 1.10 x 5.79"	No. 10451000

lay:art tropic

Mixing Tray

Capillary action moistens the ceramic mixture homogeneously over the entire surface, tray includes two additional, glazed wells.

Advantages

- Ideally moistened ceramic due to the capillary action of the tray material.
- Practical handling with the glazed wells for stains and mixing liquids.



Ordering information

lay:art tropic xl	220 x 11 x 120 mm 8.67 x 0.43 x 4.73"	291 x 36 x 223 mm 11.47 x 1.42 x 8.79"	No. 10440000
lay:art tropic s	159 x 11 x 90 mm 6.26 x 0.43 x 3.55"	211 x 28 x 147 mm 8.31 x 1.10 x 5.79"	No. 10441000

lay:art oasis

Mixing Tray

High-tech porcelain mixing tray with glazed surface and perforated wells. Automatic capillary moistening for processing and storing of dental ceramic materials.

Advantages

- The porcelain remains processable for a long time thanks to the continuous moistening by means of a micro-foam moistening pad.
- Ensures comfortable working due to permanent optimal consistency of porcelain.
- Gentle on the brush thanks to a completely glazed surface.



Ordering information

lay:art oasis	159 x 9 x 90 mm 6.26 x 0.35 x 3.55"	211 x 28 x 147 mm 8.31 x 1.10 x 5.79"	No. 10455000
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lay:art crystal

Mixing Tray

Glass mixing tray in a modern design.

Advantages

- Optimized plate color provides optimum contrast to the material.
- Gentle on the brush and completely abrasion free using float glass with a high-quality, extremely smooth surface.
- Perfect overview and structured working thanks to optical subdivision in segments.



Ordering information

lay:art crystal	220 x 4 x 120 mm 8.67 x 0.16 x 4.73"	291 x 36 x 223 mm 11.47 x 1.42 x 8.79"	No. 10430000
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lay:art natural

Mixing Tray

Exclusive mixing tray made from natural agate stone.

Advantages

- The outstanding material hardness and highly polished surface guarantee abrasion-free, reliable working.
- Individuality, each tray is uniquely handcrafted.



Ordering information

lay:art natural	159 x 6,5 x 90 mm 6.26 x 0.26 x 3.55"	211 x 28 x 147 mm 8.31 x 1.10 x 5.79"	No. 10460000
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lay:art color

Mixing Tray

Glazed ceramic tray for preparing and storing stains.

Advantages

- Versatility due to 13 drop-shaped, 2 large and 4 small round mixing wells as well as a smooth mixing surface.
- Newly developed drop shape: sharp-edged at the back for wiping the brush, tapering at the front to allow controlled dispensing of the stain on the brush surface.



Ordering information

lay:art color	159 x 11 x 90 mm 6.26 x 0.43 x 3.55"	211 x 28 x 147 mm 8.31 x 1.10 x 5.79"	No. 10470000
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Rainbow

Mixing Tray

Glazed palette material with perforated wells prevents the porcelain from drying-out during the working process.

Advantages

- Capillary effect to the wells (2 holes each) moistens the porcelain.
- Very smooth palette surface increases the service-life of the porcelain brush.
- Continuous use of porcelain due to air-tight lid.



Ordering information

Rainbow	≈ 183 x 105 mm ≈ 7.20 x 4.13"	No. 10580000
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Stain-Mix

Mixing Tray

Stain mixing tray for porcelain and acrylic stains.

Advantages

- Black lid for light curing stains.
- 30 small wells with sharp edges for wiping the brush.
- 1 large well for glaze liquid.



Ordering information

Stain-Mix	≈ 155 x 95 mm ≈ 6.10 x 3.74"	No. 10650100
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Brushes

This is what makes work easier

- high tension
- extremely durable bristles
- elastic, resistant tips
- ergonomic shape & soft touch
- integrated anti-roll



Wide selection for individualists

The lay:art style brushes offer a choice of two or three types of tips depending on the size: slim-line tip contour, bold tip contour and short conical tip contour.



Take advantage of permanent quality

Only the longest, finest hairs from the tail of the male Siberian weasel are used for the lay:art style brushes. This hair is particularly resistant and elastic. The brush tip remains extremely stable and firm thanks to a special binding technique.



Apply with the finest tip

A brush tip made from fine, tapering and uniformly long hair reduces the loading on the individual hairs and deflects the forces acting on the brush to the side. This increases the tension and service life.

Overview

Brushes

	Name	Natural hair	Synthetic hair	Page
	lay:art style	■		93
	Genius	■		94
	Kolinsky	■		94
	Ceramicus		■	95
	Takanishi		■	95
	Squirrel hair brush	■		96

lay:art style

Natural bristle brush

lay:art style natural hair brushes provide premium quality for the highest demands. An innovative manufacturing technique achieves maximum values in terms of tension, dimensional stability and durability of the brush tip.

Advantages

- Top quality with natural hair for consistent working comfort at the highest level.
- 10 sizes with different shape concepts, perfectly coordinated to individual requirements.
- The Big Brush technique with sizes 8, 6 and 4 increases the moisture reserve and tension.

Details

- The ergonomic handle design with Soft Touch is optimally balanced and sits perfectly in the hand.
- Slim: Slim shape of brush in the upper third provides minimal moisture release and aids delicate building up.
- Bold: Bold shape of brush in the upper third provides higher moisture release and aids the uptake of large amounts of porcelain.
- Cone (4): Short conical brush shape enables precise building up and targeted reduction thanks to maximum firmness.



Choice of two or three types of tips depending on the size: slim, bold and cone

Ordering information

lay:art style set	with 1 piece each of brush size 2 / opaque / color	No. 17251000
[1] lay:art style color	2 pieces	No. 17250000
[2] lay:art style opaque	2 pieces	No. 17250001
[3] lay:art style size 2	2 pieces	No. 17250002
[4] lay:art style size 4 slim	1 piece	No. 17250004
[5] lay:art style size 6 slim	1 piece	No. 17250006
[6] lay:art style size 8 slim	1 piece	No. 17250008
[7] lay:art style size 4 bold	1 piece	No. 17250014
[8] lay:art style size 6 bold	1 piece	No. 17250016
[9] lay:art style size 8 bold	1 piece	No. 17250018
[10] lay:art style size 4 cone	1 piece	No. 17250040

Genius

Natural bristle brush



High quality, natural hair brushes in a modern design with a protective function integrated in the handle. In order for the brush hair to have a high level of strength, shape stability and longevity, Renfert uses a unique manufacturing technique.

Advantages

- Brush hair has a long service life due to an innovative protective function.
- Slim tip shape due to the high quality brush hair.
- Especially economical due to easily replaceable brush tips.

Details

- The protective function can be easily activated via a smooth rotation mechanism.
- Consistent haptics for all holding positions.
- Integrated roll-away protection.

Ordering information

Genius set	with 4 brush sizes (2, 4, 6, 8)	No. 17150000
[1] Genius size 2	1 piece	No. 17150002
[2] Genius size 4	1 piece	No. 17150004
[3] Genius size 6	1 piece	No. 17150006
[4] Genius size 8	1 piece	No. 17150008
Genius refill, size 2	2 pieces	No. 17151002
Genius refill, size 4	2 pieces	No. 17151004
Genius refill, size 6	2 pieces	No. 17151006
Genius refill, size 8	2 pieces	No. 17151008

Kolinsky

Natural bristle brush



Natural bristle brush made from Kolinsky red sable bristles – quality and aesthetics combined.

Advantages

- Fine, flexible brush tip.
- Optimum liquid reservoir.
- 6 different sizes for individual uses.

Ordering information

Kolinsky set	with 6 brush sizes (1, 2, 4, 6, 8, 1/0)	No. 17131000
[1] Kolinsky size 1	2 pieces	No. 17131001
[2] Kolinsky size 2	2 pieces	No. 17131002
[3] Kolinsky size 4	2 pieces	No. 17131004
[4] Kolinsky size 6	2 pieces	No. 17131006
[5] Kolinsky size 8	2 pieces	No. 17131008
[6] Kolinsky size 1/0	2 pieces	No. 17131110



Ceramicus

Synthetic bristle brush



Porcelain brush made from a special, synthetic microhair structure.

Advantages

- Great resilience of the bristles.
- Very densely packed bristles.
- No bothersome splaying of the bristles after every porcelain build-up.

Ordering information

Ceramicus set	with 6 brush sizes (1, 2, 4, 6, 8, 1/0)	No. 17160000
Ceramicus staining brush set	size 00 and 000, 2 pieces each	No. 17030000
[1] Ceramicus size 1	2 pieces	No. 17160001
[2] Ceramicus size 2	2 pieces	No. 17160002
[3] Ceramicus size 4	2 pieces	No. 17160004
[4] Ceramicus size 6	1 piece	No. 17160006
[5] Ceramicus size 8	1 piece	No. 17160008
[6] Ceramicus Big Brush	1 piece	No. 17160088
[7] Ceramicus size 1/0	2 pieces	No. 17160110
[8] Ceramicus size 2/0	2 pieces	No. 17160120
[9] Ceramicus opaquing brush	2 pieces	No. 17160200



Takanishi

Synthetic bristle brush



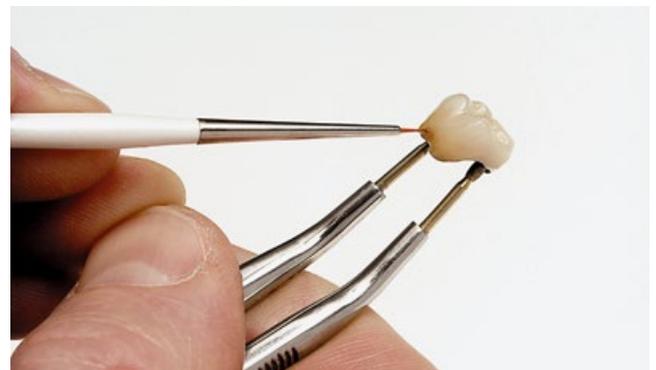
Very high quality synthetic bristle brush which has been well proven for many years for the optimal porcelain build-up.

Advantages

- The brush tip remains stable.
- Highly flexible brush bristles.
- Ideal for reducing porcelain.

Ordering information

Takanishi set	with 6 brush sizes (1/0, 2, 4, 6, 8, opaquing brush)	No. 17140000
Takanishi staining brush set	size 00 and 000, 2 pieces each	No. 17010000
[1] Takanishi size 1	2 pieces	No. 17140001
[2] Takanishi size 2	2 pieces	No. 17140002
[3] Takanishi size 3	2 pieces	No. 17140003
[4] Takanishi size 4	2 pieces	No. 17140004
[5] Takanishi size 5	2 pieces	No. 17140005
[6] Takanishi size 6	2 pieces	No. 17140006
[7] Takanishi size 8	2 pieces	No. 17140008
[8] Takanishi size 1/0	2 pieces	No. 17140110
[9] Takanishi size 2/0	2 pieces	No. 17140120
[10] Takanishi opaquing brush	2 pieces	No. 17140200



Squirrel hair brush

Natural bristle brush



According to Stefan Borenstein. Fine, wide surface brush for smoothing and cleaning the porcelain model.

Advantages

- Very soft brush bristles.
- Large surface brush.
- Comfortable access to interdental spaces using narrow edge.

Ordering information

Squirrel hair brush	1 piece	No. 17120000
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Overview

Hand / Measuring instruments

	Name	Porcelain	Wax	Resin	Page
	ERGO Ceramic	■			99
	ERGO Acryl			■	99
	ERGO Wax		■		99
	Metrical scoops	■			100
	Agate spatula	■			100
	Multipurpose instrument	■	■		100
	Instrument set Standard		■		101
	Instrument set Deluxe		■	■	101
	Keramogrip	■		■	102

Overview

Hand / Measuring instruments

	Name	Porcelain	Wax	Resin	Page
	Jacketgrip	■		■	102
	Calipretto S	■	■	■	103
	Caliper	■	■		103

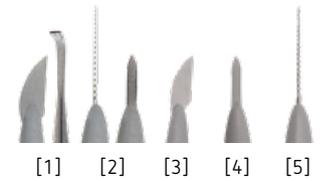
ERGO Ceramic

Ceramic modeling instrument

Double-sided special instruments for modelling porcelain with three replaceable instrument tips.

Advantages

- Instrument No. 1: Large blade for separating and reducing (replaceable). A large claw scraper for precise resection when modelling the tooth shape.
- Instrument No. 2: Fine nerve needle for creating fissures and enamel cracks (replaceable). Small blade for working on areas which are difficult to reach (replaceable).



Ordering information

ERGO Ceramic set	with 2 instruments	No. 11611000
[1] ERGO Ceramic Instrument No. 1	1 piece	No. 11611100
[2] ERGO Ceramic Instrument No. 2	1 piece	No. 11611200
[3] Spring tip „large blade“	2 pieces	No. 11611110
[4] Spring tip „small blade“	2 pieces	No. 11611210
[5] Spring tip „fine nerve needle“	2 pieces	No. 11611220

ERGO Acryl

Instrument for veneering composite

Double-sided modelling instruments ideal for acrylic facings.

Advantages

- Three individual flexible blades, 0.2 mm thick.
- Flexible blades are secured to the instrument handle by a threaded connection and can be easily exchanged, as required.
- Ideal for applying and modelling modern facing acrylics.



Ordering information

[1] ERGO Acryl Instrument, No. 1	1 piece	No. 10521100
[2] ERGO Acryl Instrument, No. 2	1 piece	No. 10521200
[3] ERGO Acryl Instrument, No. 3	1 piece	No. 10521300
[4] Flexible blade tip, No. 1	2 pieces	No. 10521110
[5] Flexible blade tip, No. 2	2 pieces	No. 10521210
[6] Flexible blade tip, No. 3	2 pieces	No. 10521310

ERGO Wax

Wax modeling instrument

ERGO wax instruments are characterised by the wide variety of applications for which they can be employed and by their individual adaptability.

Advantages

- Instruments can be ground according to individual needs.
- Probes, blades and scrapers made from handground stainless steel.
- Fine, anodised handles, comfortable to hold, heat-resistant and insulated.



Ordering information

[1] ERGO Wax Instrument No. 1	1 piece	No. 10342001
[2] ERGO Wax Instrument No. 2	1 piece	No. 10342002
[3] ERGO Wax Instrument No. 3	1 piece	No. 10342003
[4] ERGO Wax Instrument No. 4	1 piece	No. 10342004
[5] ERGO Wax Instrument No. 5	1 piece	No. 10342005

Metrical scoops

Portioning instrument for porcelain

Stainless steel metrical scoops for precise measuring of porcelain powders.

Advantages

- Slim shape for easy access to small bottles of porcelain.
- For reproducible, individual porcelain mixtures.
- 4 different scoop sizes: 0.02 g; 0.05 g; 0.10 g; 0.40 g



Ordering information

Metrical scoops	set of 2 pieces	No. 10530000
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Agate spatula

Mixing instrument for porcelain masses

Agate instrument for mixing porcelain masses.

Advantages

- The porcelain cannot be contaminated by metal flaking off instruments.
- Both ends can be used.
- Ideal if used in combination with the lay:art mixing trays series.



Ordering information

Agate spatula	1 piece	No. 11570000
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Multipurpose instrument

Universal dental instrument

High quality instrument with tension adjustor and 5 different inserts for use within various dental technology applications.

Advantages

- Blade change within seconds.
- Super-thin blades for separating porcelain.
- Light instrument with non-slip grip.



Ordering information

Multipurpose instrument	with 1 handle and each 1 blade broad (10300100), blade smooth (10500100) and blade serrated (10500600)	No. 10301000
[1] Replacement blades broad,	10 pieces	No. 10300100
[2] Replacement blades narrow	10 pieces	No. 10310100
[3] Chisel	6 pieces	No. 10320100
[4] Replacement blades smooth	8 pieces	No. 10500100
[5] Replacement blades serrated	8 pieces	No. 10500600

Instrument set Standard



High quality standard equipment including instruments, brushes and pliers for all areas of use with-in dental technology.

Ordering information

Instrument set Standard	ERGO Wax instrument No. 1, ERGO Wax instrument No. 3, ERGO Wax instrument No. 4, Tweezers, rust-proof, 15.5 cm, Combi wax brush, Multi-purpose instrument with blades, Plaster knife, 13 cm, Wax knife, large, Wax knife, small, Aderer clasp bending pliers, slender, Pointed pliers, grooved, Foil scissors, Soldering tweezers, 16 cm, Standard caliper	No. 11510000
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Instrument set Deluxe



High quality standard equipment including instruments, brushes and pliers for all areas of use with-in dental technology.

Ordering information

Instrument set Deluxe	Tweezers rust-proof, 15.5 cm, Sakura marking pen, Combi wax brush, Wax knife small, ERGO Wax instrument No. 1, ERGO Wax instrument No. 3 + No. 4, Multipurpose instrument with blades, ERGO Acryl instrument kit 3 pieces, Takanishi brush size 4 + size 6, Wax knife large, Soldering tweezers 16 cm, Aderer clasp bending pliers slender, Curved haemostats, Plaster knife 13 cm, Standard caliper, Pointed pliers grooved, Foil scissors	No. 11540000
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Keramogrip

Holding instrument with diamond tips



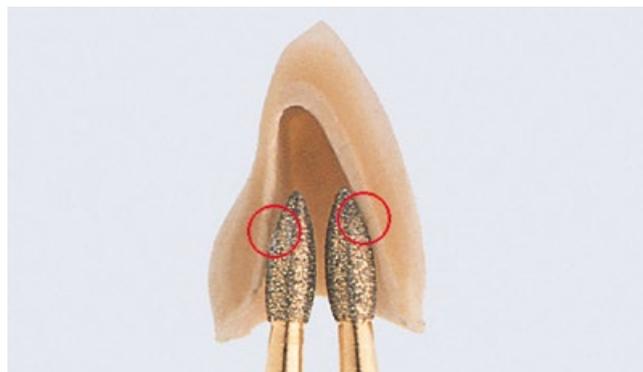
Holders for crowns and bridges during porcelain or acrylic work.

Advantages

- Replaceable, fine diamond tips.
- Elliptical shaped tips suitable for small crowns.
- Finely graduated gripping ratchet.

Ordering information

Keramogrip	1 piece	No. 11090300
[1] Replacement tips	2 pieces	No. 11090100



Jacketgrip

Holding instrument with diamond tips



Tweezers for a secure hold on crowns and bridges.

Advantages

- Replaceable, fine diamond tips.
- Elliptical shaped tips suitable for small crowns.
- Infinitely adjustable with the thumb screw.

Ordering information

Jacketgrip	1 piece	No. 11050300
[1] Replacement tips	2 pieces	No. 11090100



Calipretto S

Precision measuring instrument



Measuring system for precise wall thickness of dental objects.

Advantages

- Interchangeable special tips.
- Standard tips: all-purpose use within normal space conditions.
- Modified tips: specifically for use in slender anterior crowns.

Ordering information

Calipretto S	incl. 3 pairs of tips, adjusting sleeve and Allen key	No. 11221000
[1] Measuring tips Standard,	1 pair	No. 11221001
[2] Measuring tips, modified	1 pair	No. 11221002
[3] Measuring discs for casting wax	1 pair	No. 11221003
Protective glass	1 piece	No. 11221004



Caliper

Precision measuring instrument



Precision instrument which can be read from both sides.

Advantages

- Rust-proof special steel.
- Slender measuring tips.
- Reading accuracy of up to 0.1 mm and measuring range of 0 to 10 mm (0–0.39”).

Ordering information

Caliper	1 piece	No. 11190000
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Separating and grinding discs

This is what makes work easier

- large assortment for all materials
- maximum precision at high speeds
- long service life
- minimum vibration
- reliable and robust



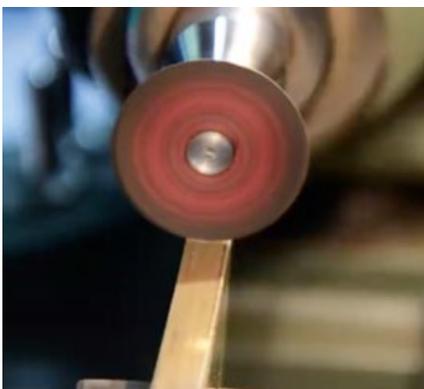
Work more quickly and accurately

You work faster and more precisely when trimming, separating or preparing with these high-speed instruments. Selected raw materials, optimum dimensional accuracy, extremely high cutting speed and very low heat generation make this possible.



Be flexible

Your framework can be fabricated using any type of ceramic, precious or non-precious metal alloys, CrCo alloys or titanium alloys – you will find high-quality abrasives in the Dynex range for all applications.



Put your trust in robustness

All Dynex separating and grinding discs have very long service lives. This is because all designs, even the ultra-thin versions, are reinforced with double glass-fiber. The reinforcement is a component of the disc core and is fully fused with the carrier material.

Overview

Separating and grinding discs

Name	∅	Thickness	Max. rpm	Tita- nium	Precious metal	Porce- lain	Non-pre- cious alloys	Model casting	Plaster	Page
Dynex Brillant, 20 x 0,2 mm	20 mm//0.79"	0,2 mm//0.01"	50000 rpm			■				106
Dynex Brillant, 20 x 0,25 mm	20 mm//0.79"	0,25 mm//0.01"	50000 rpm			■				106
Dynex Brillant, 20 x 0,3 mm	20 mm//0.79"	0,3 mm//0.01"	50000 rpm			■				106
Dynex Brillant, 20 x 0,8 mm	20 mm//0.79"	0,8 mm//0.03"	50000 rpm			■				106
Dynex Titanium, 22 x 0,3 mm	22 mm//0.87"	0,3 mm//0.01"	50000 rpm	■						107
Dynex Titanium, 26 x 0,3 mm	26 mm//1.02"	0,3 mm//0.01"	50000 rpm	■						107
Dynex, 22 x 0,2 mm	22 mm//0.87"	0,2 mm//0.01"	50000 rpm		■		■			107
Dynex, 22 x 0,25 mm	22 mm//0.87"	0,25 mm//0.01"	50000 rpm		■		■			107
Dynex, 26 x 0,25 mm	26 mm//1.02"	0,25 mm//0.01"	50000 rpm		■		■			107
Dynex, 22 x 0,3 mm	22 mm//0.87"	0,3 mm//0.01"	50000 rpm		■		■			107
Dynex, 26 x 0,3 mm	26 mm//1.02"	0,3 mm//0.01"	50000 rpm		■		■			107
Dynex, 22 x 0,5 mm	22 mm//0.87"	0,5 mm//0.02"	50000 rpm				■	■		107
Dynex, 26 x 0,5 mm	26 mm//1.02"	0,5 mm//0.02"	50000 rpm				■	■		107
Dynex, 22 x 1,0 mm	22 mm//0.87"	1 mm//0.04"	50000 rpm				■	■		107
Dynex, 40 x 0,4 mm	40 mm//1.58"	0,4 mm//0.02"	38000 rpm				■	■		107
Dynex, 40 x 0,5 mm	40 mm//1.58"	0,5 mm//0.02"	38000 rpm				■	■		107
Dynex, 40 x 0,7 mm	40 mm//1.58"	0,7 mm//0.03"	38000 rpm				■	■		107
Dynex, 40 x 1,0 mm	40 mm//1.58"	1 mm//0.04"	38000 rpm				■	■		107
Plastercut, 30 x 0,3 mm	30 mm//1.18"	0,3 mm//0.01"	10000 rpm						■	108
Plastercut, 38 x 0,3 mm	38 mm//1.5"	0,3 mm//0.01"	10000 rpm						■	108
Plastercut, 45 x 0,35 mm	45 mm//1.77"	0,35 mm//0.01"	10000 rpm						■	108
Bi-Flex, 22 x 0,15 mm	22 mm//0.87"	0,15 mm//0.01"	15000 rpm			■				108
Turbo-Flex S, 19 x 0,15 mm	19 mm//0.75"	0,15 mm//0.01"	15000 rpm			■				108
Ultracut, 20 x 0,15 mm	20 mm//0.79"	0,15 mm//0.01"	15000 rpm			■				109
Separating discs, 40 x 1,0 mm	40 mm//1.57"	1 mm//0.04"	25000 rpm				■	■		109
Separating discs, 38 x 0,6 mm	38 mm//1.49"	0,6 mm//0.02"	25000 rpm					■		109
Separating discs, 37 x 1,0 mm	37 mm//1.46"	1 mm//0.04"	25000 rpm					■		109
Separating discs, 24 x 0,6 mm	24 mm//0.94"	0,6 mm//0.02"	25000 rpm					■		109
Separating discs, 32 x 1,6 mm	32 mm//1.26"	1,6 mm//0.06"	25000 rpm					■		109
Separating discs, 22 x 0,2 mm	22 mm//0.87"	0,2 mm//0.01"	20000 rpm			■				109
Separating discs, 22 x 0,3 mm	22 mm//0.87"	0,3 mm//0.01"	24000 rpm		■					109
Separating discs, 22 x 0,3 mm	22 mm//0.87"	0,3 mm//0.01"	22000 rpm		■	■				109
Grinding discs, 25 x 3,0 mm	25 mm//0.99"	3 mm//0.12"	25000 rpm					■		109
Grinding discs, 35 x 3,0 mm	35 mm//1.38"	3 mm//0.12"	25000 rpm					■		109

Dynex Brillant Separating discs

Separating discs



Flexible diamond separating discs with glass fiber reinforcement, created for cutting, separating and trimming veneering porcelain, zirconium oxide and lithium disilicate.

Advantages

- Avoids material damages due to very low thermal impact.
- Safe separation and trimming of press sprues due to very good cutting characteristics and removal capacity.
- Gentle to material due to extremely low vibrations.

Details

- Prevention of cracking in ceramic materials due to low heat generation.

Ordering information

Dynex Brillant, 20 x 0,2 mm	50000 rpm	10 pieces	No. 560220
Dynex Brillant, 20 x 0,25 mm	50000 rpm	10 pieces	No. 562520
Dynex Brillant, 20 x 0,3 mm	50000 rpm	10 pieces	No. 560320



Dynex Brillant Grinding discs

Grinding discs



Diamond grinding discs with glass fiber reinforcement, created for processing and trimming ceramic materials, especially suited for lithium disilicate.

Advantages

- Avoids material damages due to very low thermal impact.
- Safe trimming of press sprues due to very high removal capacity.
- Gentle to material due to extremely low vibrations.

Details

- Prevention of cracking in ceramic materials due to low heat generation.

Ordering information

Dynex Brillant, 20 x 0,8 mm	50000 rpm	1 piece	No. 560820
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Dynex Titanium

Separating discs



Flexible and robust glass fiber reinforced separating discs especially created for implant super structures such as abutments, bars and frame-works made of titanium or titanium alloys.

Advantages

- Efficient separation and precise processing due to high flexibility and stability.
- Processing safety due to safe separating and processing of titanium and titanium alloys.
- Cost-effective work due to extremely high cutting efficiency.

Dynex Titanium 22 x 0.3 mm

For cutting and grinding thin areas and small parts of the restoration.

Dynex Titanium 26 x 0.3 mm

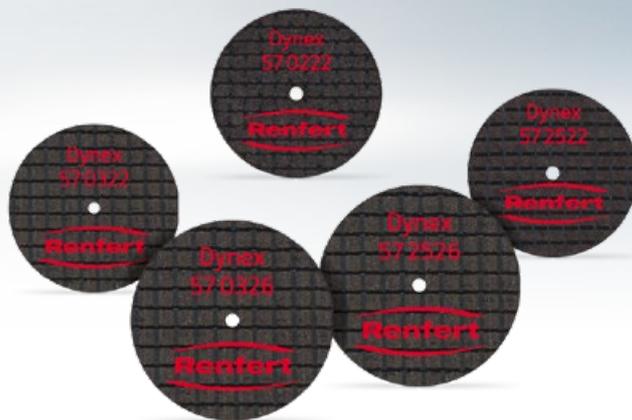
For cutting and grinding solid areas and larger parts of the restoration.

Ordering information

Dynex Titanium, 22 x 0,3 mm	50000 rpm	20 pieces	No. 580322
Dynex Titanium, 26 x 0,3 mm	50000 rpm	20 pieces	No. 580326

Dynex

Separating discs



Flexible and robust, doubly glass fiber reinforced separating discs for precious and non-precious metal as well as model cast alloys.

Advantages

- Efficient separation and precise processing.
- Processing safety due to top cutting performance.
- Gentle to material due to extremely low thermal impact.

Details

- Specified selection with separating disc sizes ranging from very thin and material-saving to extremely robust and high cutting efficiency.

Ordering information

Dynex, 22 x 0,2 mm	50000 rpm	20 pieces	No. 570222
Dynex, 22 x 0,25 mm	50000 rpm	20 pieces	No. 572522
Dynex, 26 x 0,25 mm	50000 rpm	20 pieces	No. 572526
Dynex, 22 x 0,3 mm	50000 rpm	20 pieces	No. 570322
Dynex, 26 x 0,3 mm	50000 rpm	20 pieces	No. 570326
Dynex, 22 x 0,5 mm	50000 rpm	20 pieces	No. 570522
Dynex, 26 x 0,5 mm	50000 rpm	20 pieces	No. 570526
Dynex, 22 x 1,0 mm	50000 rpm	25 pieces	No. 571022
Dynex, 40 x 0,4 mm	38000 rpm	20 pieces	No. 570440
Dynex, 40 x 0,5 mm	38000 rpm	20 pieces	No. 570540
Dynex, 40 x 0,7 mm	38000 rpm	20 pieces	No. 570740
Dynex, 40 x 1,0 mm	38000 rpm	20 pieces	No. 571040

Plastercut

Plaster separating disc

Diamond coated separating disc for cutting out dies from the plaster arch.

Advantages

- Quick and precise cut without destroying the edges.
- Stable carrier material ensures reduced noise level.
- Perforations within the disc ensure transparency while cutting.



Ordering information

Plastercut, 30 x 0,3 mm	10000 rpm	1 piece	No. 331300
Plastercut, 38 x 0,3 mm	10000 rpm	1 piece	No. 331380
Plastercut, 45 x 0,35 mm	10000 rpm	1 piece	No. 331450

Bi-Flex

Separating disc

Diamond coated separating disc for porcelain.

Advantages

- Highly flexible separating disc for porcelain with coating on both sides.
- Fine diamond coating for fine separation and contouring.



Ordering information

Bi-Flex, 22 x 0,15 mm	15000 rpm	1 piece	No. 271000
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Turbo-Flex S

Separating disc

A serrated separating disc with double-sided diamond coating for separating porcelain.

Advantages

- Notches ensure cooling effect and dissipation of grinding dust.
- High flexibility ideal for creating interdental spaces.



Ordering information

Turbo-Flex S, 19 x 0,15 mm	15000 rpm	1 piece	No. 290100
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Ultracut

Separating disc

Sintered diamond separating disc. Especially suitable for separating porcelain.

Advantages

- Highest service life due to diamond sintered layer.
- Best possible separations thanks to maximum flexibility.
- Fine grinding pattern due to dense diamond distribution.



Ordering information

Ultracut, 20 x 0,15 mm	15000 rpm	1 piece	No. 730000
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Various separating discs

Separating discs

A variety of separating discs with different geometries for processing ceramic and various metal alloys.



Ordering information

Separating discs, 40 x 1,0 mm	25000 rpm	25 pieces	No. 581040
Separating discs, 38 x 0,6 mm	25000 rpm	100 pieces	No. 652000
Separating discs, 37 x 1,0 mm	25000 rpm	100 pieces	No. 662000
Separating discs, 24 x 0,6 mm	25000 rpm	100 pieces	No. 672000
Separating discs, 32 x 1,6 mm	25000 rpm	100 pieces	No. 682000
Separating discs, 22 x 0,2 mm	20000 rpm	50 pieces	No. 702000
Separating discs, 22 x 0,3 mm	24000 rpm	100 pieces	No. 720000
Separating discs, 22 x 0,3 mm	22000 rpm	100 pieces	No. 740000

Various grinding discs

Grinding discs

Optimum processing of chrome cobalt frames via very aggressive grinding properties.

Advantages

- Effective use of the discs with the grinder.

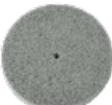


Ordering information

Grinding discs, 25 x 3,0 mm	25000 rpm	100 pieces	No. 6122000
Grinding discs, 35 x 3,0 mm	25000 rpm	100 pieces	No. 6152000

Overview

Polishers

	Name	Prepolishing	High luster	Precious metal	Non-precious alloys	Model casting	Veneering acrylic	Denture resin	Porcelain	Page
	Polisoft A	■		■	■	■				112
	Polisoft	■		■	■	■				112
	Silicone polishers	■		■	■	■		■	■	112
	Silver wire brush mounted	■		■	■	■				113
	Bison	■	■	■	■	■	■	■	■	113
	Goat hair brush	■	■	■			■	■	■	113
	Cotton buff		■				■	■		114
	Dia-Finish L		■				■		■	114
	Silver wire brushes	■			■	■				114

Overview

Polishers

	Name	Prepolishing	High luster	Precious metal	Non-precious alloys	Model casting	Veneering acrylic	Denture resin	Porcelain	Page
	Slender brushes	■	■	■	■	■				115
	Chungking brushes	■			■	■				115
	Special brush	■	■		■	■				115
	Slim	■						■		116
	Linen buff siliconized	■		■	■	■	■	■		116
	Pleated buff nettle cloth		■	■	■	■	■	■		116

Polisoft A

Polisher

For gentle polishing and powerful smoothing of hard alloys.

Advantages

- Low emission of dust and noise.
- Produces matt polish and a dense surface.



Ordering information

Polisoft A, 22 x 3,0 mm	50 pieces	No. 900000
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Polisoft

Polisher

Effective polishing of precious and non-precious metal alloys.

Advantages

- Optimum alternative to rubber or silicone polishers.
- Quickly smooths all metal surfaces.
- Virtually no dust or odor produced.



Ordering information

Polisoft, 22 x 3,0 mm	50 pieces	No. 910000
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Silicone polishers

Polisher

For pre-polishing porcelain and metal.

Advantages

- No smear build-up on porcelain.
- Ideal for the transition between metal and porcelain.



Ordering information

Silicone polishers, 22 x 3,2 mm	100 pieces	No. 860000
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Silver wire brush mounted

Polishing brush

Abrasion-free pre-polishing of metal occlusal surfaces.

Advantages

- Occlusal and approximal contact points are maintained.
- Produces a silk-matt finish.
- Ideal preparation for the high-lustre polish.



Ordering information

Silver wire brush, 19 mm	12 pieces	No. 1660000
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Bison

Polishing brush

This unique mixture of bristles ensures a powerful and quick high-lustre polish on alloys, porcelain and acrylic facings.

Advantages

- Long service-life thanks to dense, firm bristle arrangement.
- Particularly suitable for polishing occlusal surfaces and interdental spaces.
- Excellent take-up of polishing pastes.



Ordering information

Bison, 14 mm	25 pieces	No. 7631000
Bison, 14 mm	100 pieces	No. 7631100
Bison, 18 mm	25 pieces	No. 7661000
Bison, 18 mm	100 pieces	No. 7661100

Goat hair brush

Polishing brush

For polishing precious metal and acrylic surfaces.

Advantages

- Good take-up of polishing paste for an excellent polishing result.



Ordering information

Goat hair brush, 19 mm	12 pieces	No. 2040000
------------------------	-----------	-------------

Cotton buff

Polisher

For high-luster polish of dental materials using a hand-piece.

Advantages

- Optimum take-up of polishing paste, no sticking.
- Long service life.



Ordering information

Cotton buffs, 22 mm	12 pieces	No. 2051000
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Dia-Finish L

Felt disc

High-quality felt discs impregnated with fine diamond particles for polishing porcelain and facing acrylics.

Advantages

- Optimum combination of polishing felt and diamond paste.
- For high lustre polishing of porcelain.
- Polish without firing after occlusal grinding (Time-Saving!).



Ordering information

Dia-Finish L knife-egde, hard , 12 mm	12 pieces	No. 400201
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Silver wire brushes

Polishing brush

For pre-polishing cast metal frameworks and palatal surfaces.

Advantages

- No surface abrasion – stippled effect remains intact.
- Silky matt shine of frames.
- Optimum handling due to 51 mm diameter.



Ordering information

Silver wire brush, 51 mm	2 pieces	No. 1960000
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Slender brushes

Polishing brush

The classic brush for polishing chrome cobalt or hard precious metals using a polishing unit.

Advantages

- Precise polishing via pointed brushes.
- Ideal for narrow places on frames.
- Highly resistant bristles for heavy duty use.



Ordering information

Slender brush, 36 mm	12 pieces	No. 7871000
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Chungking brushes

Polishing brush

Polishing buff for pre-polishing chrome cobalt alloys.

Advantages

- Saves time due to dual action polishing effect thanks to the linen inserts and Chungking bristles.
- Pre-polishing and condensing in one working step.



Ordering information

Chungking brushes, 80 mm	12 pieces	No. 7672000
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Special brush

Polishing brush

Particularly good for polishing chrome cobalt frames using polishing paste.

Advantages

- Narrow brushes, easy access to all areas.
- 2 rows of grade 1 Chungking bristles.
- Powerful, short brushes (10 mm), extremely durable.



Ordering information

Special brush, 65 mm	12 pieces	No. 1991000
Special brush, 65 mm	100 pieces	No. 1992000

Slim

Polishing brush

The Slim polishing brush is particularly suitable for polishing interdental spaces on acrylic dentures.

Advantages

- Slender brushes for working on the polisher.
- Soft bristles prevent abrasion.
- The spaces between bristles produce a cooling effect.



Ordering information

Slim, 44 mm	12 pieces	No. 7881000
Slim, 44 mm	100 pieces	No. 7882000

Linen buff siliconized

For pre-polishing acrylic dentures with damp pumice.

Advantages

- Produces a silky matt surface.
- No fraying due to rubber coating.
- Optimum polishing even in deep gum areas.



Ordering information

Linen buff, 80 mm	4 pieces	No. 2090000
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Pleated buff nettle cloth

For large surface high-lustre polish on acrylic dentures.

Advantages

- Will not fray due to diagonal cut of material.
- Material folds cause cooling effect leading to speedier shine.



Ordering information

Pleated buff nettle cloth, 100 mm	4 pieces	No. 2100002
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Remberti

Magnifying spectacles

1.5 times enlarging magnifying spectacles with foldable magnifying section.

Advantages

- Non-reflecting due to tempered mineral glasses.
- Low weight of only 38 g (1.38 oz.) ensures interference-free working.
- Also suitable for spectacle wearers.



Ordering information

Remberti

No. 12620001

MATERIALS

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renfert.com/p/*

*Insert required article number.
Done!



NEW Renfert-Scanspray
extra fine
Matting spray



Thanks to its micro-fine, homogeneous structure, Renfert-Scanspray extra fine can be applied very thinly. Enhanced adhesion, especially on polished ceramics/metals and reflecting surfaces.

Advantages

- Thinner layer thickness (< 1 µm) and higher opacity compared to conventional scan sprays. This ensures more homogeneous and more detailed scanning results.
- High separation sharpness with detailed edge representation, especially on delicate structures, for precise scanning results.
- No flake and bubble formation (agglomeration), thus reduction of dimensional errors.
- Particularly good output due to very thin and micro-fine layer application.

Ordering information

Renfert-Scanspray extra fine	200 ml (6.80 fl.oz.), 1 precision spray nozzle	No. 17312000
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Renfert-Scanspray
Matting spray



Maximum precision thanks to thin layer application and homogenous grain size.

Advantages

- Accurate edge representation.
- Undistorted surfaces.
- Optimal polygon count in the 3D model.

Ordering information

Renfert-Scanspray	200 ml (6.80 fl.oz.)	No. 17310000
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EASY blank wax

CAD/CAM wax blank

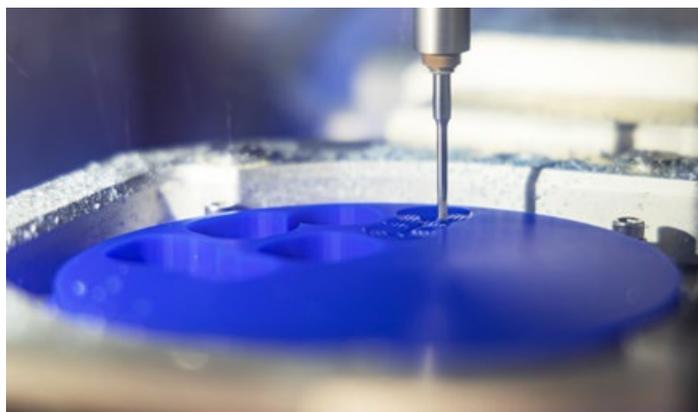
CAD/CAM wax blank for the production of digitally designed crowns and bridges for press and casting techniques.

Advantages

- Precisely milled results with extremely smooth surfaces and strong edge stability due to the high degree of material homogeneity.
- Especially suitable for full ceramic restorations as the wax will burn-out without residue.
- Reliable milling process due to small milled chips which do not stick to the cutter or the object surface.

Details

- The Renfert EASY blank wax is the optimal CAD/CAM wax blank for milled restorations in the customarily Renfert quality "made in Germany".
- „Making work easy“ stands for outstanding product characteristics, e.g. high material homogeneity.
- This allows, amongst other things, a perfect fit and surface quality to be achieved in the final restoration.



No clogging of the cutter thanks to small chip formation

Ordering information

EASY blank wax 14 mm	EASY blank wax Ø 98,5 x 14 mm (3.88 x 0.55"), 1x CAD/CAM wax blank, color blue	No. 7700014
EASY blank wax 20 mm	EASY blank wax Ø 98,5 x 20 mm (3.88 x 0.79"), 1x CAD/CAM wax blank, color blue	No. 7700020

Pin-Cast

Model base former

Model base production kit for effective formation of model bases for plaster arches.

Advantages

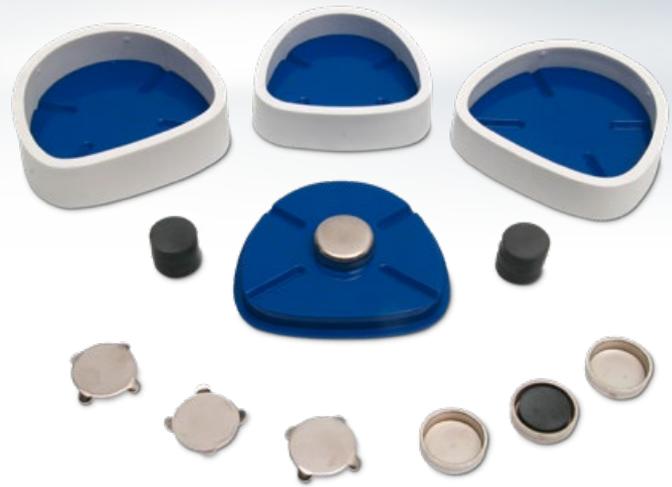
- Saves time and material.
- Straight forward base system with reusable parts.
- Variable base height and size.

Details

- Accurately fitting primary and secondary bases.
- Easy removal and precise relocation of the models.
- Corrosion resistant discs and magnet holders.

Use

- Separating dental arches: Plaster against plaster.
- Forming the model base of the dental arch with pins.
- Removal of the base plate.
- Isolation of the model base: Plaster against plaster.
- Filling out the split cast form with base plaster.
- Removal of the rubber ring after the plaster has set.
- Articulating the models in the articulator or occludator parallel to the table level.



Various base heights for different pin systems

Ordering information

Pin-Cast set	13,5 mm // 0.53"	Set for Bi-Pin short with sleeve	No. 4100326
Pin-Cast set	17,5 mm // 0.69"	Set for Bi-Pin long with sleeve	No. 4100346
Pin-Cast set	12,5 mm // 0.49"	Set for Smart-Pin, Bi-V-Pin with sleeve and Pro-Fix	No. 4100366
Pin-Cast base former large, 3 pieces			No. 4110000
Pin-Cast base former small, 3 pieces			No. 4111000
Pin-Cast magnets and magnet holders, 30 pieces each			No. 4130000
Pin-Cast retention discs, 120 pieces			No. 4140000

Overview

Pins

Name	Sleeve	Length (Shaft length)	Length (Head length)	Length (Spike length)	Length (Shaft length + Sleeve)	Length (Needle length)	Head	Sleeve width max.	Page
AUTO spin cone pin	Without sleeve	14 mm// 0.55"	-	-	-	-			123
Bi-V-Pin with metal sleeve	metal	12,5 mm// 0.49"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,6 mm// 0.14"	123
Bi-V-Pin with metal sleeve	metal	12,5 mm// 0.49"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,6 mm// 0.14"	123
Bi-V-Pin with plastic sleeve	Plastic	12,5 mm// 0.49"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,8 mm// 0.15"	123
Bi-V-Pin with plastic sleeve	Plastic	12,5 mm// 0.49"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,8 mm// 0.15"	123
Bi-Pin short with sleeve	metal	13,5 mm// 0.53"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,6 mm// 0.14"	124
Bi-Pin short with sleeve	metal	13,5 mm// 0.53"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,6 mm// 0.14"	124
Bi-Pin long with sleeve and spike	metal	17,5 mm// 0.68"	4 mm// 0.15"	8 mm// 0.31"	-	-	1,9 mm// 0.07"	3,6 mm// 0.14"	124
Bi-Pin long with sleeve	metal	17,5 mm// 0.68"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,6 mm// 0.14"	124
Bi-Pin long with sleeve	metal	17,5 mm// 0.68"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	3,6 mm// 0.14"	124
Bi-Pin short	Without sleeve	13,5 mm// 0.53"	5,5 mm// 0.21"	-	-	-	2 mm 0.07 "	2,9 mm// 0.11"	124
Bi-Pin long	Without sleeve	17,5 mm// 0.68"	5,5 mm// 0.21"	-	-	-	2 mm// 0.07"	2,9 mm// 0.11"	124
Bi-Pin with spike	Without sleeve	17,5 mm// 0.68"	4 mm// 0.15"	8 mm// 0.31"	-	-	1,9 mm// 0.07"	2,9 mm// 0.11"	124
Bi-Pin with spike	Without sleeve	17,5 mm// 0.68"	4 mm// 0.15"	8 mm// 0.31"	-	-	2 mm// 0.07"	2,9 mm// 0.11"	124
Pro-Fix	Plastic	11,6 mm// 0.45"	5,5 mm// 0.21"	-	12 mm// 0.47"	-	1,6 mm//0.06" 2,5 mm//0.09" 3 mm//0.12"		124
Pro-Fix	Plastic	11,6 mm// 0.45"	5,5 mm// 0.21"	-	12 mm// 0.47"	-	1,6 mm//0.06" 2,5 mm//0.09" 3 mm//0.12"		124
Smart-Pin	metal	12,5 mm// 0.49"	5,5 mm// 0.21"	-	-	-	1,6 mm//0.06" 2,5 mm//0.09" 2 mm//0.07"		125
Sleeves for Smart-Pin	metal								125
Bi-Fix-Pin	Without sleeve	17,5 mm// 0.68"	5,5 mm// 0.21"	-	-	43 mm// 1.69"	2 mm// 0.07"	2,9 mm// 0.11"	125
Bi-Fix-Pin	Without sleeve	17,5 mm// 0.68"	5,5 mm// 0.21"	-	-	43 mm// 1.69"	2 mm// 0.07"	2,9 mm// 0.11"	125

AUTO spin cone pin

Model pin



The AUTO spin cone pin is a 14 mm long precision pin for model production systems such as the AUTO spin system, Giroform[®], Zeiser[®] or similar systems.

Advantages

- Reliable position in the base plate due to low manufacturing tolerances in pin production.
- Controlled friction characteristics due to a fine surface structure.

Technical data

Length (Shaft length)	14 mm // 0.55"
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Ordering information

AUTO spin cone pin	1000 pieces	No. 3692000
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Bi-V-Pin

Model pin



Model pin with a narrow V-shaped head geometry and two guide pins, particularly suitable for tight positioning in limited space.

Advantages

- Only one hole drilled per die.
- Reduced model production time.

Technical data

Ø (Head)	2 mm // 0.07"
Length (Shaft length)	12,5 mm // 0.49"
Length (Head length)	5,5 mm // 0.21"
Width (Sleeve width max.)	3,6 mm 3,8 mm // 0.14" 0.15"
Sleeve	yes

Ordering information

Bi-V-Pin with metal sleeve	100 pieces	No. 3281000
Bi-V-Pin with metal sleeve	1000 pieces	No. 3282000
Bi-V-Pin with plastic sleeve	100 pieces	No. 3291000
Bi-V-Pin with plastic sleeve	1000 pieces	No. 3292000
Accessories		Page 126



Bi-Pin

Model pin



High-lustre nickel-plated model pins with double guide pin for precise, rotation-free positioning of the die.

Advantages

- Reduced model production time
- Two guidance pins to prevent rotation.
- Optimal friction due to conical pin shape.

Technical data

Ø (Head)	2 mm 1,9 mm // 0.07"
Length (Shaft length)	13,5 mm 17,5 mm // 0.53" 0.68"
Length (Head length)	5,5 mm 4 mm // 0.21" 0.15"
Length (Spike length)	8 mm // 0.31"
Width (Sleeve width max.)	3,6 mm // 0.14"
Width (Pin max.)	2,9 mm // 0.11"
Sleeve	yes no

Ordering information

Bi-Pin short with sleeve	100 pieces	No. 3261000
Bi-Pin short with sleeve	1000 pieces	No. 3262000
Bi-Pin long with sleeve and spike	100 pieces	No. 3431000
Bi-Pin long with sleeve	100 pieces	No. 3461000
Bi-Pin long with sleeve	1000 pieces	No. 3462000
Bi-Pin short	1000 pieces	No. 3362000
Bi-Pin long	1000 pieces	No. 3533000
Bi-Pin with spike	100 pieces	No. 3521000
Bi-Pin with spike	1000 pieces	No. 3523000
Accessories		Page 126

Pro-Fix

Model pin



Precision pin with plastic sleeve, Easy-Glide-Function and a guidance pin.

Advantages

- Stress-free removal through gentle die removal without jolting movements.
- Short friction path of 1 mm for safe removal of diverging dies.
- Guarantees even friction strength with all dies.

Technical data

Ø (Head)	1,6 mm // 0.06"
Ø (Sleeve)	3 mm // 0.12"
Ø (Pin max.)	2,5 mm // 0.09"
Length (Shaft length)	11,6 mm // 0.45"
Length (Head length)	5,5 mm // 0.21"
Length (Shaft length + Sleeve)	12 mm // 0.47"

Ordering information

Pro-Fix	100 pieces	No. 3671000
Pro-Fix	1000 pieces	No. 3672000
Accessories		Page 126



Smart-Pin

Model pin



Narrow, short model pin with optimum insertion into metal sleeve.

Advantages

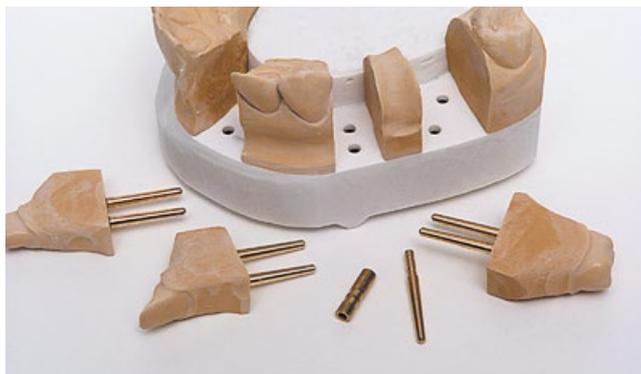
- Extremely narrow pin and sleeve combination.
- For particularly narrow spaces.
- Pin height for low model bases saves plaster.

Technical data

∅ (Head)	1,6 mm // 0.06"
∅ (Sleeve)	2,5 mm // 0.09"
∅ (Pin max.)	2 mm // 0.07"
Length (Shaft length)	12,5 mm // 0.49"
Length (Head length)	5,5 mm // 0.21"

Ordering information

Smart-Pin	1000 pieces	No. 3662000
Sleeves for Smart-Pin	1000 pieces	No. 3662100
Accessories		Page 126



Bi-Fix-Pin

Model pin



Dual guidance model pin with fixing wire for exact positioning in the impression.

Advantages

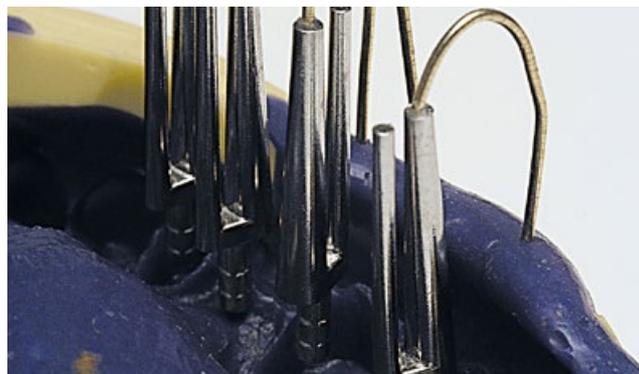
- No drilling required.
- Reduced model production time.
- Two guidance pins to prevent rotation.

Technical data

∅ (Head)	2 mm // 0.07"
Length (Shaft length)	17,5 mm // 0.68"
Length (Head length)	5,5 mm // 0.21"
Length (Needle length)	43 mm // 1.69"
Width (Pin max.)	2,9 mm // 0.11"

Ordering information

Bi-Fix-Pin	100 pieces	No. 3451000
Bi-Fix-Pin	1000 pieces	No. 3453000
Accessories		Page 126



Accessories

Pins

	Rubber caps for Bi-Pins	<p>Prevent pins and sleeves from being damaged during model trimming. Time saving, easy and safe handling. Prevents interference with the friction due to plaster penetration.</p> <p>For Bi-Pin</p>	500 pieces	No. 3220000
	Retention rings	<p>Zinc plated retention rings for secure fixation of non-removable sections of the plaster arch. Individual use for fixing various sizes of model areas. Simple placement at commencement of the plaster arch binding phase.</p> <p>For Bi-V-Pin, Bi-Pin, Pro-Fix, Smart-Pin, Bi-Fix-Pin</p>	1000 pieces	No. 3930000

The multi-purpose one

Super glue

All-round super glue for use with plaster, metal, acrylics and porcelain.

Advantages

- Specially for gluing fresh and dry plaster.
- For universal use.
- Viscosity 15 mPa s.



Ordering information

Super glue, The multi-purpose one	15 mPa s	6 x 5 g (6 x ~0.17 fl.oz.)	No. 17330050
Super glue, The multi-purpose one	15 mPa s	6 x 10 g (6 x ~0.33 fl.oz.)	No. 17330100

The powerful one

Super glue

All-round instant glue with quick bonding time, for use with plaster, metal, acrylic and porcelain.

Advantages

- Specially for gluing dry plaster.
- Very quick setting characteristics.
- Viscosity 18 mPa s.



Ordering information

Super glue, The powerful one	18 mPa s	6 x 10 g (6 x ~0.33 fl.oz.)	No. 17332000
Super glue, The powerful one	18 mPa s	6 x 5 g (6 x ~0.17 fl.oz.)	No. 17332050

Concret

Special glue

Viscous special glue for closing up large gaps in plaster, metal, acrylic and porcelain.

Advantages

- Secure hold when gluing pins.
- Delayed setting time so the parts to be glued can be comfortably positioned.
- Viscosity 100 mPa s.



Ordering information

Concret	100 mPa s	2 x 10 g (2 x ~0.33 fl.oz.)	No. 17220020
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Liquicol

Special glue

Special glue with extremely low viscosity for sealing plaster models.

Advantages

- Minimal layer build-up.
- For strengthening the surfaces of dies, alveolar ridges or opposing dentition.
- For smoothing rough areas of models.



Ordering information

Liquicol	1.3 mPa s	2 x 20 g (2 x ~0.66 fl.oz.)	No. 17320020
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Surface hardener

Self-hardening acrylic solution for hardening and sealing plaster models.

Advantages

- Requires only one application or dip.
- Seals surface without layer build-up.
- Surface becomes very hard and water-resistant.



Ordering information

Surface hardener	125 ml (4.25 fl.oz.)	No. 17192000
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Stabiloplast

Fixing resin

General purpose resin for fixing, stabilizing, connecting and blocking out.

Advantages

- May be applied straight from the bottle.
- Will adhere to wax.
- Has excellent adhesive properties, even to metal.



Ordering information

Stabiloplast accelerator	30 ml (1.02 fl.oz.)	No. 4480002
Stabiloplast resin	2 x 10 g (2 x ~0.33 fl.oz.)	No. 4480003
Stabiloplast set	2 x 10 g (2 x ~0.33 fl.oz.) resin, 30 ml (1.02 fl.oz.) accelerator	No. 4480004

die:master

Die varnishes

The die:master system provides you with perfect die preparation as a working basis for conventional and all-ceramic restorations.

Advantages

- Optimally prepared and protected working base with coordinated system components.
- Hard-wearing die surface due to specially developed plaster hardener and sealer.
- Effective ultra thin isolating layer on the working base without damage to the varnish.

Details

- A wide range of hard-wearing die varnishes in three layer thicknesses and 4 colors.

die:master set

- Fast and clear access to all system components thanks to the set stand.
- A high degree of working comfort due to the integrated isolating brush with magnetic fixture.
- Integrated, practical die holder in the stand.



Dies can be safely stored in the integrated die holder

Ordering information

die:master red	15 ml (0.51 fl.oz.)	15 µm	No. 19560200
die:master blue	15 ml (0.51 fl.oz.)	20 µm	No. 19560300
die:master silver	15 ml (0.51 fl.oz.)	13 µm	No. 19560400
die:master gold	15 ml (0.51 fl.oz.)	13 µm	No. 19560500
die:master duo	15 ml (0.51 fl.oz.)	0 µm	No. 19560600
die:master thinner	30 ml (1.02 fl.oz.)		No. 19560700
die:master set red	1x stand, 2x die:master red, 1x die:master thinner, 1x die:master duo, 1x picosep, 1x brush	15 µm	No. 19560800
die:master set blue	1x stand, 2x die:master blue, 1x die:master thinner, 1x die:master duo, 1x picosep, 1x brush	20 µm	No. 19560900
die:master set silver/gold	1x stand, 1x die:master silver, 1x die:master gold, 1x die:master thinner, 1x die:master duo, 1x picosep, 1x brush	13 µm	No. 19561000

picosep

Separating agent

Thin, silicone based isolating agent – specially developed for wax-dipping techniques.

Advantages

- Microfilm isolates plaster from wax or high-fusing porcelain.
- A thin layer is effective for days; no reapplication required.



Ordering information

picosep	30 ml (1.02 fl.oz.)	No. 15520030
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Iso-Stift

Isolating stick

A practical, double-sided isolating stick for isolating plaster against porcelain and wax.

Advantages

- Soft and hard tip for individual applications.
- Economical and precise application of isolating material.
- Comfortable and easy handling.



Ordering information

Iso-Stift	1 piece, 4,5 ml (0.15 fl.oz.)	No. 17093000
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Isofix 2000

Separating agent

Separation of plaster against plaster for production of working models.

Advantages

- Ideal separation characteristics thanks to soaking into plaster surface and sealing the open pores.
- Precise film-free separation of plaster components.



Ordering information

Isofix 2000	2 x 1 l (2 x 34 fl.oz.)	No. 17202000
Isofix 2000 spray bottle (without contents)		No. 17201000

Occlutec

Occlusion spray

Occlutec provides very clear and detailed marking of high spots on CrCo dentures, crowns and bridges.

Advantages

- Distinct sharp contours.
- Optimal dosage due to micro-powder spray layer.
- Homogenous spraying characteristics regardless of fill level of the can.



Ordering information

Occlutec green	75 ml (2.55 fl.oz.)	No. 19350000
Occlutec red	75 ml (2.55 fl.oz.)	No. 19351000

Picosilk

Wetting agent for wax

Picosilk is a wetting agent for wax models within crown, bridge and model casting technique.

Advantages

- Spray on finely using the atomizer before investing.
- Wax does not take on water-repellent characteristics after use.
- Improves the flow of investment material.



Ordering information

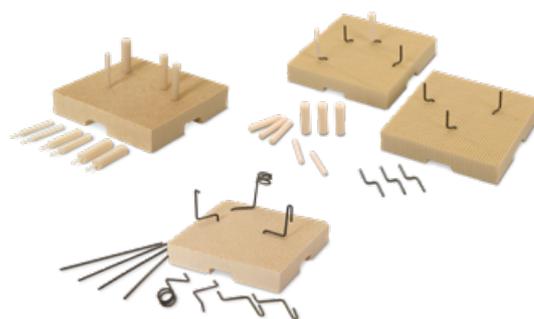
Picosilk, spray bottle	75 ml (2.55 fl.oz.)	No. 15500000
Picosilk, refill bottle	500 ml (17 fl.oz.)	No. 15500100

Firing tray

Light firing tray for individual positioning of crowns and bridges.

Advantages

- Consistent firing temperature due to low heat absorption of the firing tray.
- No transfer of tension onto the framework.



Ordering information

Mesh-Tray	2 base plates, 6 shaped and 4 straight supports	No. 19220000
Mesh-Tray K	2 base plates, 10 porcelain supports	No. 19220100
Active Carbon	10 pieces, incl. 2 supports	No. 20650000
Support wires for Mesh-Tray	6 x shaped, 4 x straight, Ø 1 mm (0.04")	No. 919220001
Porcelain supports for Mesh-Tray K	3 x Ø 2 mm (0.04"), 4 x Ø 3 mm (0.08"), 3 x Ø 4 mm (0.12"), 10 pieces	No. 919220002
Support wires for Mesh-Tray	20 x straight, Ø 1 mm (0.04")	No. 919220003

Electrolyte

Glaze liquid

For electrolytic high-luster polishing of chrome cobalt frames in special units.

Advantages

- Special additives ensure time-saving and high efficiency during electrolytic polishing.
- For all units with copper, precious metal or titanium electrodes.



Ordering information

Elektrolyt	2 l (0.53 gal)	No. 15241000
Elektrolyt	10 l (2.64 gal)	No. 15242000

Crown and Bridge Waxes

This is what makes work easier

- optimum waxing up and modeling properties
- high-quality materials
- coordinated to working with electric wax knife and open flame
- very low shrinkage behavior
- wide selection for every requirement



Ensure excellence: with GEO Expert

The top-quality modeling waxes, specially developed in collaboration with August Bruguera, are ideal for experts, individualists and technicians eager to learn with a high esthetic demand for the restoration.



Work flexibly: with GEO Classic

With the high-quality, versatile GEO Classic range of modeling waxes every dental technician can find the correct wax for his individual requirements, whether for single crowns or highly complex bridge restorations.



Work efficiently: GEO Crowax

All restorations in crown and bridge work, and in CrCo work can be fabricated very cost-effectively using these uncomplicated modeling waxes from the GEO Crowax range.

Overview of Melting Ranges

Description	Recommended temperature setting*	55°C 131°F	60°C 140°F	65°C 149°F	70°C 158°F	75°C 167°F	80°C 176°F	85°C 185°F	90°C 194°F	95°C 203°F
Crown and Bridge Technique										
Dipping waxes										
GEO Dip	90–92°C 194–198°F						■	■	■	■
GEO Rewax	91–93°C 196–200°F						■	■	■	■
Modeling waxes										
GEO Expert Modeling waxes	115–140°C 239–284°F		■	■	■	■	■	■	■	■
GEO Expert Cervical wax	120–155°C 248–311°F	■	■	■	■	■				
GEO Classic & GEO Classic Natural Modeling waxes	120–135°C 248–275°F		■	■	■	■	■	■	■	■
GEO Classic Avantgarde Modeling waxes	125–140°C 257–284°F		■	■	■					
GEO Classic Snow-white Modeling waxes	110–140°C 230–284°F					■	■	■	■	■
GEO Classic Cervical wax	125–150°C 257–302°F	■	■	■	■	■				
GEO Classic Cervical and Undercut wax	120–155°C 248–311°F		■	■	■	■				
GEO Classic Milling Wax	125–155°C 257–302°F			■	■	■				
GEO Crowax Modeling waxes	115–135°C 239–275°F				■	■	■	■	■	■
GEO Crowax Cervical and Undercut wax	120–155°C 248–311°F	■	■	■	■	■				
Model Casting Technique										
Preparation wax										
GEO Block-out wax	180–200°C 356–392°F						■	■	■	■
Modeling waxes										
GEO Model casting modeling wax hard	125–180°C 257–356°F				■	■	■	■		
GEO Model casting modeling wax standard	125–170°C 257–338°F			■	■	■	■			
Sticking wax										
GEO Sticking wax	185–200°C 365–392°F							■	■	■

* Recommended temperature setting for dipping pots / electric wax-up devices

Liquid – Dropping point
 Processable – Melting range
 Solid – Solidification point

Overview

Crown and Bridge Waxes

	Name	Conventional crown and bridge techniques	All-ceramics and pressable ceramics	Aesthetic waxing up	Special wax	Model casting	Page
	GEO Expert A. Bruguera	■	■	■	■		136
	GEO Expert Gingiva A. Bruguera	■	■	■	■		136
	GEO Expert Functional	■			■		137
	GEO Classic	■	■	■	■		138
	GEO Crowax	■	■		■	■	139
	GEO Pontics	■	■				139
	GEO Dip	■	■		■		140
	GEO Rewax	■	■		■		140

GEO Expert A. Bruguera

Esthetic modeling waxes



The GEO Expert Waxes by August Bruguera are first-class esthetic modeling waxes for experts, individualists and those eager to learn.

Advantages

- Easy implementation of natural tooth structures and shades by following wax-up instructions.
- High precision due to coordinated flow and modeling properties.
- Flexible working as it is suitable for using the electrical wax knife and the Bunsen flame.

Areas of application

Monolithic and diagnostic wax-ups, esthetic, true-to-nature, hyper-realistic wax-ups, customization of tooth-shaded wax-ups, all-ceramics and pressable ceramics, conventional crown and bridge techniques, single crowns, inlays, onlays, bridge restorations.

Ordering information

GEO Expert Wax Set A. Bruguera, English	Wax presentation palette with transparent lid and user guide according to the philosophy of August Bruguera; 4 modeling waxes of 40 g each: GEO Expert sculpture / dentin / enamel / translucent; 4 effect waxes of 4 g each: GEO Expert effect white / orange / blue / brown	No. 6340001
[1] GEO Expert dentin	hard	40 g (1.41 oz.) No. 6340100
[2] GEO Expert effect white	hard	2x4 g (2x0.14 oz.) No. 6340110
[3] GEO Expert enamel	hard	40 g (1.41 oz.) No. 6340200
[4] GEO Expert effect orange	hard	2x4 g (2x0.14 oz.) No. 6340210
[5] GEO Expert sculpture	hard	40 g (1.41 oz.) No. 6340300
[6] GEO Expert effect blue	hard	2x4 g (2x0.14 oz.) No. 6340310
[7] GEO Expert translucent	hard	40 g (1.41 oz.) No. 6340400
[8] GEO Expert effect brown	hard	2x4 g (2x0.14 oz.) No. 6340410
[9] GEO Expert cervical red-orange	soft-medium hard	40 g (1.41 oz.) No. 6340500

GEO Expert Gingiva A. Bruguera

Esthetic modeling waxes



GEO Expert Gingiva waxes in pink and red are suitable for creating a gingival wax-up in the anterior and posterior region, especially for implant superstructures. With the help of a manual according to August Bruguera's philosophy, different gingiva colored, monolithic and esthetic wax-ups can be fabricated in a simple and realistic way.

Advantages

- Red and white esthetics are possible through two transparent and natural-looking pink and red gingiva modeling waxes.
- Easy fabrication of monolithic and esthetic wax-ups with the help of a guide according to August Bruguera's philosophy.
- Perfect in combination with the esthetic, tooth-colored modeling waxes from the GEO Expert Wax Set A. Bruguera.

Areas of application

Monolithic and diagnostic wax-ups, esthetic, true-to-nature, hyper-realistic wax-ups, customization of tooth-shaded wax-ups, all-ceramics and pressable ceramics, conventional crown and bridge techniques, single crowns, inlays, onlays, bridge restorations.

Ordering information

[1] GEO Expert Gingiva red A. Bruguera	red	hard	40 g (1.41 oz.)	No. 6340600
[2] GEO Expert Gingiva pink A. Bruguera	pink	hard	40 g (1.41 oz.)	No. 6340700

GEO Expert Functional

Functional modeling waxes



GEO Expert Functional waxes are high-quality modeling waxes for functional wax-up according to the natural wax-up technique (NAT) by Dieter Schulz.

Advantages

- Perfect positioning of color coded occlusal surfaces thanks to coordinated flow and modeling properties.
- Easy implementation of functional tooth structures by following wax-up instructions.
- Flexible working as it is suitable for using the electrical wax knife and the Bunsen flame.

Ordering information

GEO Expert Functional Wax Set, English	Wax presentation palette with transparent lid and user manual according to Oliver Dreher's philosophy; 4 modeling waxes of 40 g each: GEO Expert Functional wax gray, blue, green, yellow; 2x modeling waxes of 4 g each: GEO Expert Functional wax red, orange; 2x DIN A5 sheets with Occlusal Compass (24 labels each sheet)			No. 6340901
[1] GEO Expert Functional Wax green	Green	hard	40 g (1.41 oz.)	No. 6340910
[2] GEO Expert Functional wax grey	gray	hard	40 g (1.41 oz.)	No. 6340940
[3] GEO Expert Functional Wax blue	blue	hard	40 g (1.41 oz.)	No. 6340920
[4] GEO Expert Functional Wax yellow	yellow	hard	40 g (1.41 oz.)	No. 6340930
[5] GEO Expert Functional Wax Set Refill red & orange	red-transparent, orange-opaque	hard	4x4 g (4x0.14 oz.)	No. 6340960

GEO Classic

Modeling and Special Waxes

The GEO Classic line offers a selection of soft, medium and hard modeling and special waxes with very good carving, modeling and milling properties for the production of crown and bridge restorations.

Advantages

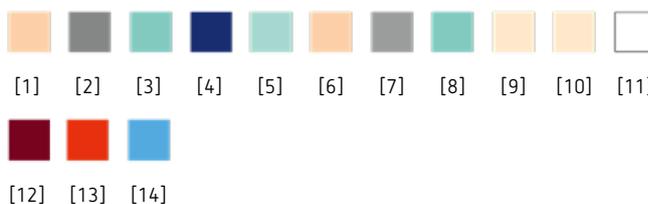
- High precision due to coordinated flow and modeling properties.
- Flexible working as it is suitable for using the electrical wax knife and the Bunsen flame.
- Processing safety in full and press ceramic techniques due to the fact that it is an organic, transparent modeling wax which burns-out residue-free.

Areas of application

Frameworks, single crowns, inlays and onlays, bridge restorations, milling techniques, telescope and conical crown techniques, full and press-ceramic, monolithic & diagnostic wax-ups.

Features

These organic, transparent modeling waxes burn-out residue-free and are especially suitable for full and press-ceramic techniques. All GEO Classic modeling waxes are perfectly suitable for use with an electric wax knife or with a naked flame.



Ideally suited for occlusal design due to its non-elastic and hard wax quality

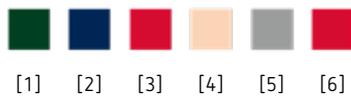
Ordering information

GEO Classic Basic Set	GEO Classic mint-transparent, GEO Classic Natural dentine opaque, GEO Classic Avantgarde grey-opaque, GEO Classic Snow-white opaque, GEO Classic Milling wax blue-opaque, GEO Classic Cervical and undercut wax red-transparent à 20 g (0.70 oz.)	No. 4930004
[1] GEO Classic, beige-opaque	beige, hard, 75 g (2.63 oz.)	No. 4970100
[2] GEO Classic, grey-opaque	gray, hard, 75 g (2.63 oz.)	No. 4970200
[3] GEO Classic, mint-opaque	mint, hard, 75 g (2.63 oz.)	No. 4970300
[4] GEO Classic, blue-transparent	blue, hard, 75 g (2.63 oz.)	No. 4971200
[5] GEO Classic, mint-transparent	mint, hard, 75 g (2.63 oz.)	No. 4971300
[6] GEO Classic Avantgarde, beige-opaque	beige, medium-hard, 75 g (2.63 oz.)	No. 4950100
[7] GEO Classic Avantgarde, grey-opaque	gray, medium-hard, 75 g (2.63 oz.)	No. 4950200
[8] GEO Classic Avantgarde, mint-opaque	mint, medium-hard, 75 g (2.63 oz.)	No. 4950300

[9] GEO Classic Natural, dentine-opaque	dentin, hard, 75 g (2.63 oz.)	No. 4990300
[10] GEO Classic Natural, dentin-transparent	dentin, hard, 75 g (2.63 oz.)	No. 4990400
[11] GEO Classic Snow-white, white-opaque	white, medium-hard, 75 g (2.63 oz.)	No. 4990101
GEO Classic Snow-white, white-transparent	white, medium-hard, 75 g (2.63 oz.)	No. 4990201
[12] GEO Classic Cervical wax, bordeaux-transparent	burgundy, hard, 75 g (2.63 oz.)	No. 4861000
[13] GEO Classic Cervical and undercut wax, red-transparent	red, soft-medium hard, 75 g (2.63 oz.)	No. 4891000
[14] GEO Classic Milling wax, blue-opaque	blue, extra-hard, 75 g (2.63 oz.)	No. 4851000

GEO Crowax

Modeling wax



The modeling waxes in the GEO Crowax line are medium hard universal waxes in handy tins for use in crown and bridge techniques as well as model casting framework techniques.

Advantages

- High level of precision and accuracy due to low shrinkage.
- Very good modeling and carving characteristics thanks to coordinated material properties.

Areas of application

Frameworks, single crowns, inlays, onlays, bridge restorations, all-ceramics and pressable ceramics, cast metal dentures, monolithic wax-ups

Ordering information

[1] GEO Crowax, green-transparent	Green	medium-hard	80 g (2.82 oz.)	No. 4750100
[2] GEO Crowax, blue-transparent	blue	medium-hard	80 g (2.82 oz.)	No. 4750200
[3] GEO Crowax, red-transparent	red	medium-hard	80 g (2.82 oz.)	No. 4750300
[4] GEO Crowax, beige-opaque	beige	medium-hard	80 g (2.82 oz.)	No. 4750400
[5] GEO Crowax, gray-opaque	gray	medium-hard	80 g (2.82 oz.)	No. 4750500
[6] GEO Crowax Cervical and undercut wax, red-transparent	red	soft-medium hard	80 g (2.82 oz.)	No. 4750600

GEO Pontics

Pre-fabricated wax parts



A set of pontics for modeling anterior and posterior bridges for veneer technique with acrylic or porcelain.

Advantages

- Universal sizes compatible for all applications – time saving!
- No distortion during removal due to the high stability.
- Tooth shapes are proportionally reduced.

Ordering information

GEO Pontics Set	10 pieces each in 6 sizes	No. 5000000
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GEO Dip

Dipping wax



Soft, ready-to-use dipping wax with minimal contraction, for use in all crown and bridge techniques.

Advantages

- Lifts off the die without distortion due to the elastic and tear-resistant wax coping.
- Suitable for full and press ceramics as it is organic and burns-out residue-free.

Areas of application

- Precise copings for all crown and bridge techniques.
- Suitable for full and press ceramic techniques.

Ordering information

[1] GEO Dip, yellow-transparent	yellow	soft	~200 g (7 oz.)	No. 4823000
[2] GEO Dip, orange-transparent	orange	soft	~200 g (7 oz.)	No. 4823200
[3] GEO Dip, green-transparent	green	soft	~200 g (7 oz.)	No. 4823300

GEO Rewax

Dipping wax



Hard, ready-to-use dipping wax with low contraction for use in all crown and bridge techniques.

Advantages

- Good carving and cutting characteristics due to an ideal wax hardness.
- Suitable for full and press ceramic techniques as it is organic and burns-out without residue.

Areas of application

- Precise copings for all crown and bridge techniques.
- Suitable for full and press ceramic techniques.

Ordering information

GEO Rewax, yellow-transparent	yellow	hard	~210 g (7.35 oz.)	No. 6510000
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GEO model casting assortment



Assortment set with the most important GEO wax prefabricated patterns for efficient modeling of model casting frameworks.

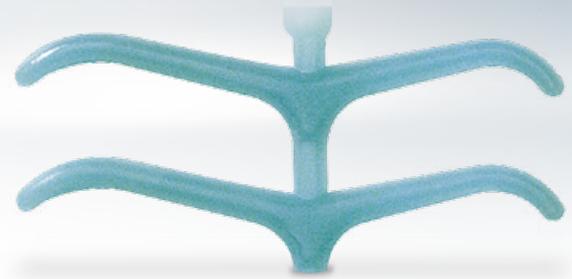
Advantages

- Structured work with clearly arranged wax patterns in the practical assortment box.
- Flexible work due to the possibility of re-ordering individual components.

Ordering information

GEO model casting assortment	4x casting wax smooth 0,3 mm (28 ga.); 4x casting wax fine stippled 0,35 mm (27 ga.); 4x casting wax fine stippled 0,5 mm (24 ga.); 4x casting wax coarse stippled 0,5 mm (24 ga.); 5x casting wax 0,6 mm (22 ga.); 3 sheets Bonyhard clasps; 3 sheets molar clasps; 3 sheets premolar clasps; 3 sheets ring clasps; 3 sheets grid meshes; 10x lingual bar; 10x perforated retainer; 10x wax rod 0,8 mm (20 ga.); sculpturing wax for model casting; undercut wax	No. 6330000
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GEO Preformed clasps



Anatomically shaped clasp profiles that run conically, made of easily adaptable wax. Also available with self-adhesive coating.

Advantages

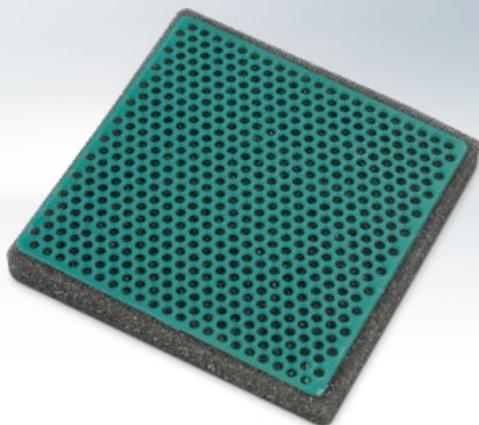
- High pressure stability prevents the shape and structure from becoming crushed.
- Stress-free application and adaptation.
- Extremely smooth surface without pores and cavities.

Ordering information

GEO Premolar clasps, self-adhesive	200 pieces	No. 6383002
GEO Molar clasps, self-adhesive	200 pieces	No. 6383003
GEO Ring clasps straight, self-adhesive	200 pieces	No. 6383004
GEO Ring clasps, self-adhesive	200 pieces	No. 6383005
GEO Bonyhard clasps, self-adhesive	200 pieces	No. 6383010
GEO Premolar clasps	200 pieces	No. 6883002
GEO Molar clasps	200 pieces	No. 6883003
GEO Ring clasps straight	200 pieces	No. 6883004
GEO Ring clasps	200 pieces	No. 6883005
GEO Bonyhard clasps	200 pieces	No. 6883010



GEO Wax retainers



Prefabricated wax retentions for model casting techniques.

Advantages

- Easy to use due to tension-free adaptation.
- No crushing of shape or structure due to high stability.
- Flexible working due to a selection of standard and self-adhesive variations.

Technical data

Sheet thickness	0,75 mm 0,7 mm 0,95 mm 1,4 mm 1,3 mm
Dimension (Sheet size)	70 x 70 mm
Dimension (Structure / Ø)	2,2 x 2,2 mm 1,8 x 1,8 mm 1,7 mm 2,0 mm 6,9 mm

Ordering information

GEO Retention grid, large, self-adhesive	20 sheets	70 x 70 mm// 2.76 x 2.76"	2,2 x 2,2 mm// 0.09 x 0.09"	No. 6383007
GEO Retention grid, fine, self-adhesive	20 sheets	70 x 70 mm// 2.76 x 2.76"	1,8 x 1,8 mm// 0.07 x 0.07"	No. 6383008
GEO Retention grid, diagonal, self-adhesive	20 sheets	70 x 70 mm// 2.76 x 2.76"	1,7 mm// 0.07"	No. 6383011
GEO Circular retainer, self-adhesive	20 sheets	70 x 70 mm// 2.76 x 2.76"	2,0 mm// 0.08"	No. 6383009
GEO Bar retainer, self-adhesive	10 sheets	-	6,9 mm// 0.27"	No. 6383006
GEO Retention grid, large	20 sheets	70 x 70 mm// 2.76 x 2.76"	2,2 x 2,2 mm// 0.09 x 0.09"	No. 6883007
GEO Retention grid, fine	20 sheets	70 x 70 mm// 2.76 x 2.76"	1,8 x 1,8 mm// 0.07 x 0.07"	No. 6883008
GEO Retention grid, diagonal	20 sheets	70 x 70 mm// 2.76 x 2.76"	1,7 mm// 0.07"	No. 6883011
GEO Circular retainer	20 sheets	70 x 70 mm// 2.76 x 2.76"	2,0 mm// 0.08"	No. 6883009
GEO Bar retainer	10 sheets	-	2,0 mm// 0.08"	No. 6883006
GEO Perforated retainers, straight	40 strips	-	6,9 mm// 0.27"	No. 6643000
GEO Perforated retainers, staggered	40 strips	-	2,0 mm// 0.08"	No. 6623000

GEO Casting wax



Turquoise, transparent sheet wax.

Advantages

- Easy, stress-free adaption due to the best wax quality.

Technical data

Sheet thickness	0,3 mm 0,4 mm 0,5 mm 0,6 mm 0,35 mm
Dimension (Sheet size)	75 x 150 mm

Ordering information

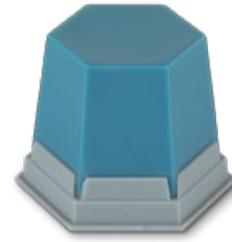
GEO Casting wax smooth, 0,40 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6403040
GEO Casting wax smooth, 0,50 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6403050
GEO Casting wax fine stippled, 0,40 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6413040
GEO Casting wax fine stippled, 0,50 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6413050
GEO Casting wax coarse stippled, 0,40 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6433040
GEO Casting wax coarse stippled, 0,50 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6433050
GEO Casting wax veined, 0,40 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6443040
GEO Casting wax veined, 0,50 mm	15 sheets	75 x 150 mm// 2.96 x 5.91"	No. 6443050

GEO Cast Model Modeling wax

For modeling cast model sections on the investment model.

Advantages

- Flexible work thanks to a choice between a transparent wax, which is precisely matched on prefabricated parts or a hard, opaque option for max. contour detail.



Ordering information

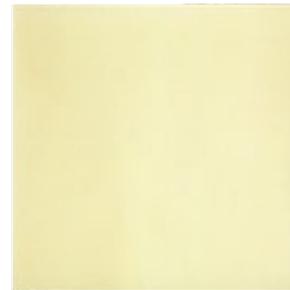
GEO cast modeling wax, turquoise transparent	turquoise transparent	Standard	75 g (2.63 oz.)	No. 6490000
GEO cast modeling wax, turquoise opaque	turquoise opaque	hard	75 g (2.63 oz.)	No. 6491000

GEO Casting Wax

Self-adhesive preparation wax for laying under saddles.

Advantages

- Optimal adhesion.
- Defined undercut in metal.
- No penetration of duplicating material under wax.



Ordering information

GEO Casting Wax 0,5 mm		32 sheets	No. 4453005
GEO Casting Wax 0,6 mm		32 sheets	No. 4453006

GEO Block-out wax

This wax is suitable for blocking undercuts, cavities or errors on plaster models for both model casting and crown as well as for bridge techniques.

Advantages

- No dimensional changes during processes involving heat.
- Ideal for duplication with duplicating gels or agar-agar.
- Very high adhesive qualities even on a damp model.



Ordering information

GEO Block-out wax	pink opaque	medium-hard	75 g (2.63 oz.)	No. 6500000
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GEO sticking wax

Special wax for fixing denture parts and for preparing repair or welding work.

Advantages

- Optimal sticking characteristics on all dental materials.
- Ideal for fixing and positioning wax sprues and pre-fabricated wax patterns.



Ordering information

GEO sticking wax	pink	extra-hard	75 g (2.63 oz.)	No. 4881000
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GEO Lingual bars

Profile sections for forming lower jaw bars.

Advantages

- High pressure stability prevents the shape and structure from becoming crushed.
- Stress-free application and adaptation.
- Extremely smooth surface without pores and cavities.



Ordering information

GEO Lingual bars	~65 g (2.28 oz.)	4 x 2 mm	No. 6673042
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GEO Triangular sprues



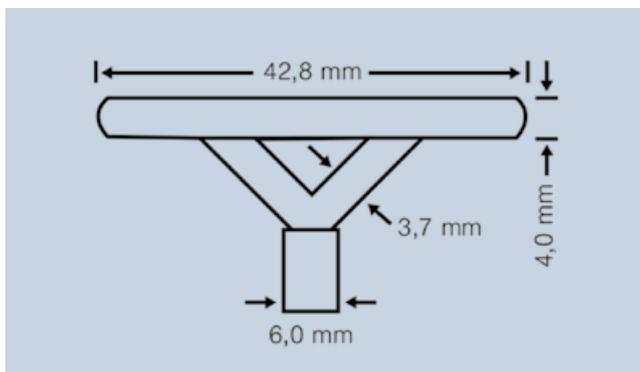
Prefabricated, rod-shaped casting sprues.

Advantages

- Controlled cooling of the molten metal due to the reservoir.
- Cavity-free and accurately fitting cast objects.

Ordering information

GEO Triangular casting sprues ~100 pcs. No. 6803000



GEO Wax wire



Due to a special wax formula, the GEO wax wires are stress-free and have low restoring forces.

Advantages

- Dimensionally stable patterns.
- Stress-free working.
- Easily adaptable.

Ordering information

GEO Wax wire hard, 2,0 mm	turquoise	hard	~250 g (0.55 lbs.)	No. 6762020
GEO Wax wire hard, 2,5 mm	turquoise	hard	~250 g (0.55 lbs.)	No. 6762025
GEO Wax wire hard, 3,0 mm	turquoise	hard	~250 g (0.55 lbs.)	No. 6762030
GEO Wax wire hard, 3,5 mm	turquoise	hard	~250 g (0.55 lbs.)	No. 6762035
GEO Wax wire hard, 4,0 mm	turquoise	hard	~250 g (0.55 lbs.)	No. 6762040
GEO Wax wire hard, 5,0 mm	turquoise	hard	~250 g (0.55 lbs.)	No. 6762050
GEO Wax wire medium-hard, 2,0 mm	blue	medium-hard	~250 g (0.55 lbs.)	No. 6783020
GEO Wax wire medium-hard, 2,5 mm	blue	medium-hard	~250 g (0.55 lbs.)	No. 6783025
GEO Wax wire medium-hard, 3,0 mm	blue	medium-hard	~250 g (0.55 lbs.)	No. 6783030
GEO Wax wire medium-hard, 3,5 mm	blue	medium-hard	~250 g (0.55 lbs.)	No. 6783035
GEO Wax wire medium-hard, 4,0 mm	blue	medium-hard	~250 g (0.55 lbs.)	No. 6783040
GEO Wax wire medium-hard, 5,0 mm	blue	medium-hard	~250 g (0.55 lbs.)	No. 6783050
GEO Wax wire in bars, 0,8 mm			~25 g (0.88 oz.)	No. 6683008
GEO Wax wire in bars, 1,0 mm			~37 g (1.30 oz.)	No. 6683010

Mesh strengtheners / grids



Mesh or grid inserts for reinforcing acrylic dentures.

Advantages

- Easy, individual adaptation.
- Improves the strength of the acrylic denture considerably.

Technical data

Material	gold-plated plain
Thickness	0,4 mm // 0.02"
Dimensions (W x H x D)	50 x 10 cm 59 x 14 x 54 mm // 19.7 x 3.94" 2.32 x 0.55 x 2.13"

Ordering information

Mesh strengthener, fine, gold-plated	0,4 mm // 0.02"	50 x 10 cm // 19.7 x 3.94"	1 roll	No. 2222100
Mesh strengthener, medium, gold-plated	0,4 mm // 0.02"	50 x 10 cm // 19.7 x 3.94"	1 roll	No. 2232100
Strengthening grid, plain	0,4 mm // 0.02"	59 x 14 x 54 mm // 2.32 x 0.55 x 2.13"	5 pieces	No. 2350004
Strengthening grid, gold-plated	0,4 mm // 0.02"	59 x 14 x 54 mm // 2.32 x 0.55 x 2.13"	5 pieces	No. 2350104



Overview

Polishing agents

Name	Prepol- ishing	High luster	Lithium disilicate	Zirconium oxide	Veneering ceramics	Hybrid ceramic	Veneering acrylic	Denture resin	Precious metals	Non precious alloys	Page
 Renfert Polish		■	■	■	■	■					148
 Brinell L		■			■						149
 Opal L	■	■					■				149
 Saphir	■	■							■	■	149
 Universal polishing paste		■						■			150

Renfert Polish

Diamond polishing pastes

Diamond polishing pastes for universal application and specific use, for high-gloss polishing of ceramic materials such as lithium disilicate, zirconium oxide, veneering ceramics, of hybrid materials as well as high performance polymers.

Advantages

- Easy high-gloss result with a great shine and at the same time low material consumption.
- High gloss finish is achieved quickly especially in difficult to reach occlusal areas.
- Smear-free and clean polishing due to a balanced ratio of binder.

Renfert Polish ZrO₂

- Extra-oral polishing paste for zirconium dioxide with specially coordinated abrasive properties due to extra coarse diamond grit.

Renfert Polish LiSi₂

- Extra-oral polishing paste specifically designed for lithium disilicate with a precise amount of coarse diamond grit.

Renfert Polish all-in-one

- Universal polishing paste with a wide spectrum of diamond grain sizes, for extra-oral use.
- Quick, high-gloss finish on various materials such as lithium disilicate, zirconium dioxide, veneering ceramics and high performance polymers.

Renfert Polish hybrid materials

- Diamond polishing paste specifically for high-gloss polishing of hybrid materials, for extra-oral use.
- Optimal polishing result thanks to diamond particles in the polishing paste that are specially matched to hybrid materials.
- Reduced plaque build-up and longer service life of the tooth restorations thanks to optimal surface finish.



Fast high-gloss results and low material consumption

Ordering information

[1] Renfert Polish hybrid materials	13 g (0.46 oz.)	No. 5103000
[2] Renfert Polish all-in-one	18 g (0.63 oz.)	No. 5100100
[3] Renfert Polish ZrO ₂	18 g (0.63 oz.)	No. 5101100
[4] Renfert Polish LiSi ₂	18 g (0.63 oz.)	No. 5102100

Brinell L

Diamond polishing paste

Brinell L is a high-luster polishing paste impregnated with diamond powder for precious metal bonding alloys and porcelain.

Advantages

- The finest diamond particles achieve the optimum high-luster shine.
- Sparing application via the measuring syringe.
- Efficient take-up using felt wheels.



Ordering information

Brinell L	5 ml (0.17 fl.oz.), with 1 cotton buff (No. 205 1000), 1 felt wheel and 1 mandrel	No. 5190001
Cotton buffs	22 mm, 12 pieces	No. 2051000

Opal L

High-luster polishing paste

White high-luster polishing paste for all acrylic facings using a handpiece.

Advantages

- Particularly suitable for light-curing acrylics.
- Quickly smoothes the surface without altering the structure.
- Quick polishing effect.



Ordering information

Opal L	35 g (1.23 oz.)	No. 5200001
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Saphir

High-luster polishing paste

High-luster polishing paste for precious metal and chrome-cobalt alloy crowns and bridges.

Advantages

- Special formula made up of high quality raw materials.
- For general use on all alloys.
- Optimum polishing effect with Polisoft pre-polishers and Bison brushes.



Ordering information

Saphir	ca. 250 g (8.75 oz.)	No. 5150000
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Universal polishing paste

High-luster polishing paste

Paste for high-luster polish on all prosthetic acrylics.

Advantages

- Hard polishing paste for mirror-like surface.
- Long-lasting.
- Fine grained consistency.



Ordering information

Universal polishing paste	6 x approx. 200 g (7.0 oz.)	No. 5131000
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Overview

Cleaning agents

	Name	Alginate removal	Plaster removal	Temporary cement removal	Tartar removal	Page
	GO 2011 speed	■	■			83
	temp:ex			■		151
	help:ex				■	152

GO 2011 speed

Plaster and alginate solvent



Suitable for cleaning different instruments and aids quickly and thoroughly in only 50% of the time in comparison to conventional plaster and alginate solvents.

Advantages

- Efficient removal of stubborn residues in a cleaning bath and even faster in an ultrasonic unit.
- Ready-to-use solution in a handy canister.

Ordering information

GO 2011 speed 2 l (0.53 gal) No. 20120000



temp:ex

Temporary Cement Remover



temp:ex is a solvent for zinc oxide based, dental temporary cements.

Advantages

- Working time savings through a significant reduction in manual working steps.
- Avoids damage to the restoration via instruments during manual working steps.
- Tested compatibility with standard dental materials.

Details

- Up to 50% faster cleaning performance using temp:ex in the SYMPRO denture cleaning device.
- Economical use due to dosage aid on bottle.

Ordering information

temp:ex 250 ml (8.45 fl.oz.) No. 66000000



NEW help:ex

Cleaning agent

Effective cleaning agents are available for cleaning with the SYMPRO denture cleaning unit. They are all safe to use due to proven material compatibility with the most common dental materials.

Advantages

- Easy and effective removal of hard and soft deposits on prosthetic restorations, orthodontic appliances and splints, with proven material compatibility.
- Efficient cleaning with ready-to-use liquids that are specially adapted for individual stains.
- Eco-friendly use with powder in portioned sachets and a corresponding neutralizer.

Tip

The cleaning powder help:ex plaque p can be easily disposed of by proven neutralization of the cleaning liquid in the SYMPRO denture cleaning unit.



Easy disposal through neutralization of help:ex plaque p (Please observe local instructions for disposal)



A perfect match: the help:ex cleaning liquids and the SYMPRO denture cleaning device

Overview

	help:ex plaque p	help:ex plaque f	help:ex discolor f
Plaque, tartar	■	■	
Coffee, tea, tar			■
Typical contamination	■		
Heavy contamination		■	■
NEW Neutralization	■		
Presentation	Powder	Liquid	Liquid

Ordering information

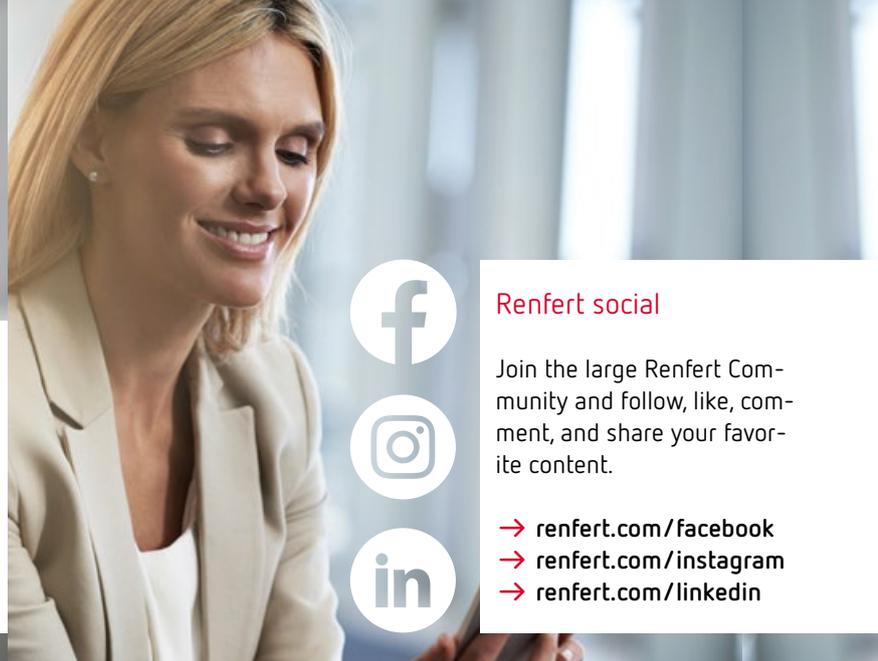
help:ex plaque f	4 x 1 l (4 x 0.26 gal)	No. 67000100
help:ex plaque p	20 x 20 g cleaning powder + 20 x 4.5 g neutralizer	No. 67000000
help:ex discolor f	1 l (0.26 gal)	No. 67000200
Further accessories		Page 83



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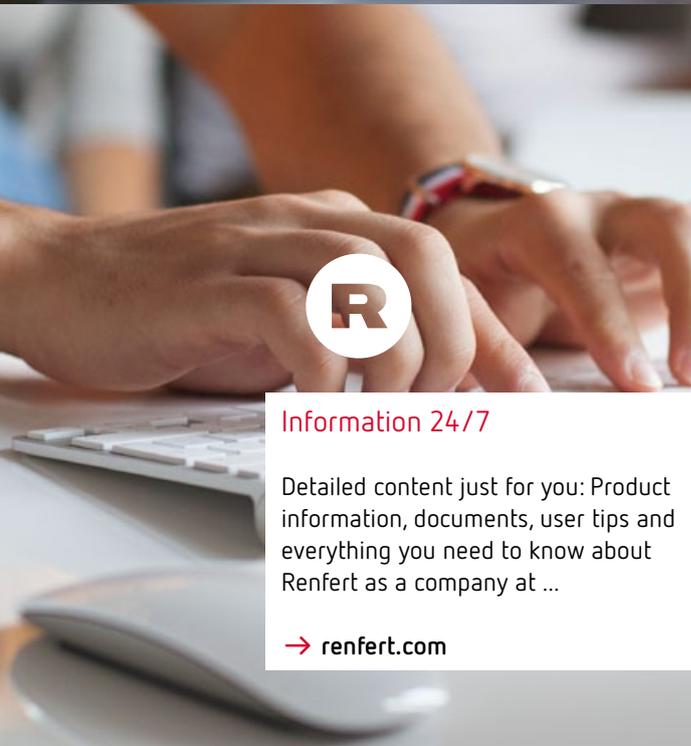


Renfert digital

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Order spare parts very quickly. But how?

If you need a spare part, first find out the item number and the status of the device, as follows.

More recent devices have a type plate on which you can see the status which is valid for your device. For older devices, please refer to the date of purchase of your device. With this information simply call your Renfert dealer or find your required spare part on the Renfert homepage.



Status of the spare parts list

REF: 29340000



S/N: A188412

Bj.: 2015

U: 220-240 V~

I: 2 A

f: 50/60 Hz

I tot: 8 A



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Date 3/2022

Guarantee: Renfert provides a 3-year guarantee for all units provided they are used properly. Parts which are subject to natural wear and tear are excluded from the guarantee. The guarantee is rendered void with improper use, disregard of the operating, maintenance, cleaning, and connection instructions, self-repairs or repair by unauthorized personnel, use of replacement parts from another manufacturer and with unusual influences or influences not permitted according to the instructions for use. Guarantee services do not extend the guarantee period.

WEEE-Reg.No.: 54602389

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Renfert ... on course for success right from the start

- 1925** Founding of the company in Essen
- 1944** Relocation to Singen
- 1975** Founding of Renfert USA
- 1988** Relocation to Hilzingen
- 1992** Production + chem. laboratory are extended
- 1996** Introduction of the 3-year guarantee
- 1998** Certification in accordance with DIN ISO 9001/EN 46001
- 2006** New premises are established
-16 at our site in Hilzingen
- 2014** Founding of Renfert do Brasil
- 2019** Expansion and refurbishment of manufacturing

 **200+** More than 200 employees

 **10%** Apprenticeship rate

 **10.6 Y** Average duration of company service

 **120+** Global sales in more than 120 countries

 **70%** Exported

 **60%** Increase in turnover since 2010

 **120+** Product groups

1000+ Product variants

Development & production:
Made in Germany



Locations

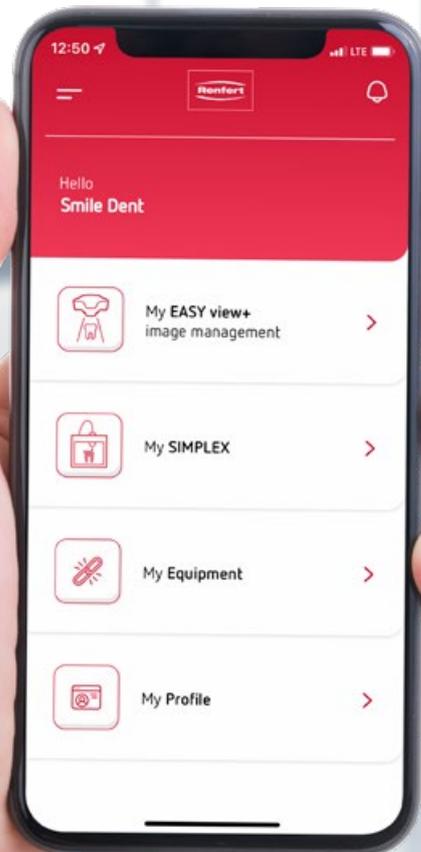
-  Hilzingen, Germany
Headquarters
-  St. Charles, USA
-  São Caetano do Sul, Brazil
-  Sales staff in 14 countries





Renfert

NEW Renfert CONNECT
SIMPLY. SMART.



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