





Dental Catalogue 2019

About Ritter

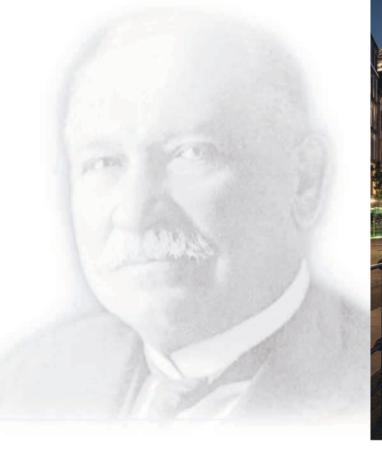
More then 130 years of dental experience.

In 1887, Frank Ritter produced one of the world's first treatment chairs for the dental profession.

In the 130 years since, Ritter has produced a long line of products that has changed the face of dentistry.

1912 Ritter introduced the "control panel" for the dental instruments, a major advancement and the beginning of modern technology in dentistry. In 1917 Ritter introduced the integrated treatment system; chair with control panel, drill, cuspidor, saliva ejector, tray table and air/water syringes - all instruments in one unit!

This system delivered for the first time the modern dental system, the core concept which has not changed even today.



Frank Ritter - founder of Ritter Dental and developer of the Ritter Dental Unit.









A dedicated staff of many employees ensure:

Leading Edge Design in consultation with leading universities both in Germany and worldwide. High Level of Function through the use of comprehensive control systems for the complete control of all of the unit's functions.

The Ritter brand stands for high quality, state of the art technology and innovative products made in Germany. Ritter dental units are the reliable solution for all necessary devices and instruments, combined with many optional features and interfaces for patient data display. Ritter remains a German owned and operated company, with all Ritter products **Made in Germany** at the modern production facility in Biberach (Baden Württemberg, South Germany).



Product Range

DENTAL UNITS



Ritter Contact World



Ritter Contact Lite Comfort



Ritter R400



Ritter R400 Smart



Ultimate Comfort



Ultimate Comfort Smart



AUTOCLAVES





Table Top Autoclaves Ritter CB23, 23 Liter | AB80, 80 Liter

X - R A Y





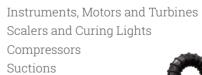
Girardelli Developing Machines

ACCESSORIES













DENTAL IMPLANTS





German Implant System including Surgical Kits and all Prosthetic Components

Contact World

Perfection in function and design:

The Contact World probably is the most beautiful patient chair in the world!

Design as well as the outstanding quality of the Contact World meet the highest demands in dentistry.

The Contact World combines perfectly the key features of functionality and aesthetics.

Therefore the Contact World is one of the most beautiful and efficient patient chairs.

The numerous options guarantee an individual and cost-efficient workflow.

ELEGANCE







Patient Chair

Take a seat and relax: Patient comfort for a smooth treatment at any time. The Contact World patient chair is famous for brilliant ergonomics and numerous unique advantages. It even received the IF Design Award for outstanding design, perfect ergonomics and function. The basis is small and offers ideal space for a stress-free treatment situation, close to the patient. Trust is a matter of mind: The Contact World headrest · Quick and easy positioning with the left hand • Convenient positinionig of the patient's head • Flexible articulating headrest • Optional: double-articulated headrest (not with ViscoSoft)



- Unique simultaneous movement (Trendelenburg) for separate control of the backrest and seat.
- Safe and comfortable positioning, even in extreme treatment situations
- · Compact, space-saving design
- Seamless surfaces and upholstery for easy disinfection
- Flexible control via foot pedal and function displays
- Chair height 35 85 cm

- Optional: Right armrest movable
- Highest seating comfort:
 Optional with special cushion
 which shapes and adapts flexibly to the body
 (ViscoSoft similar to TEMPUR®).

DESIGN



Dentist Elements

Your individual choice:

Dentist element according to your personal preference. All versions contain a smooth swing arm with pneumatic break for the flexible positioning of the dentist element. (Exception: Cart version)

FLEXIBILITY









C-version - The cart system

- Mobile cart for easy movement
- Large steerable wheels
- Up to 6 instruments
- Silicone pad for two standard trays
- Optional implementation of multi-media components



Control Display

Intuitive and user-friendly: Control of chair and instruments.

Easy and fast control of all functions of the treatment unit with a simple touch. Various user settings and memory functions ensure a perfecthandling.



Multi-function display (S-/ HC- / Cart-Version)

(valid for all displays: S-/H-/HC-/Cart-Version)

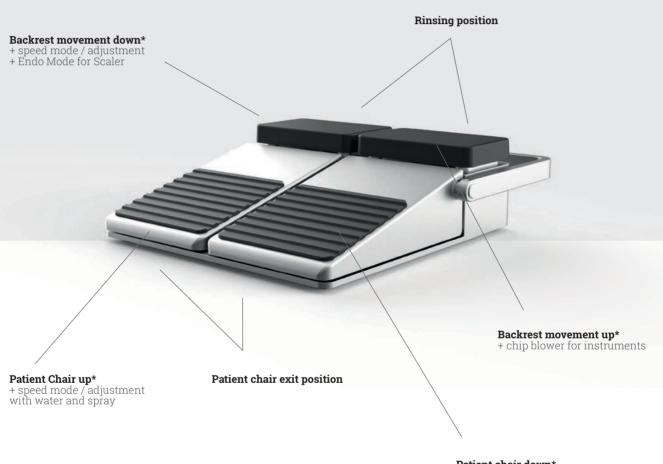
- Graphical display shows the instrument status
- All parameters are freely programmable,
 4 chair positions, advance settings for
 up to 4 different users
- · Prophylaxis function
- Timer
- 2. Instrument status

- F1 Activation Sprayheating
- F2 Activation multimedia mode
- F3 Activation Prophylaxis function
- F4 Security lock / sleeping mode
- F1 & F2, if options are choosed

Foot Controller



PRACTICABLE



 $\ensuremath{^{\star}}$ if all instruments are located in the holders

Patient chair down*
+ speed mode / adjustment
with water and spray



Assistant Side

Comfort is key: The assistant element

- Two-parted instrument arm for flexible positioning
 - regardless of the patient's position and treatment situation
- Built-in touch panel for the control of all main functions
- Ergonomically shaped suction handpieces for fatigue-free treatment
- No twisting of the hoses due to clearly arranged suspensions



Three parted instrument arm for more flexibility (option)



Option: Instrument cleaning support

- For instrument cleaning
- Easy access to internal components
- Easy disinfection



Water Unit

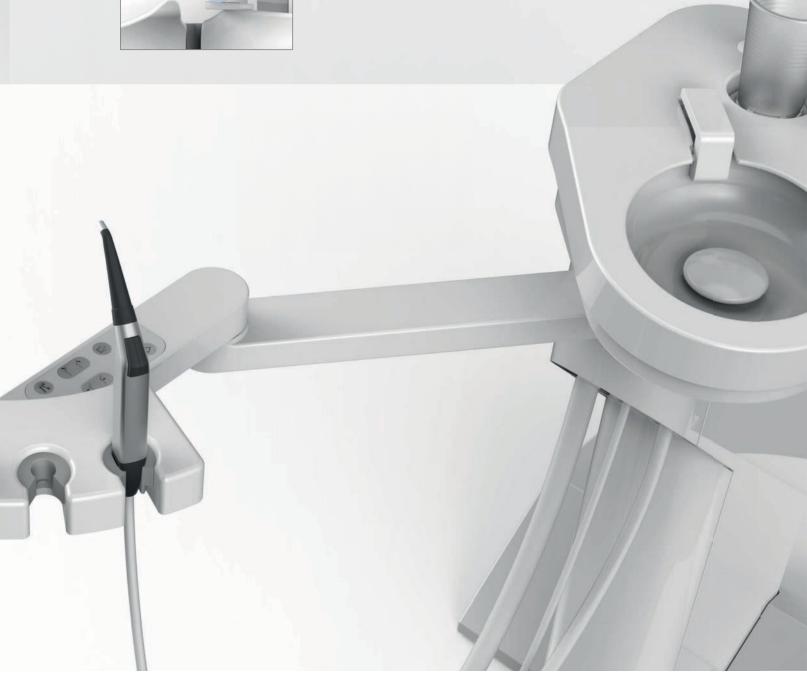






The spittoon element

- Porcelain cuspidor
- Optimum hygiene by simple removal of the components
- Optional: Swiveling cuspidor



Hygiene

Your safety has priority: Hygiene made easy.

The Ritter Contact World is designed for fast and effective cleaning.

All critical areas and components are easily accessible and disinfectable. All surfaces are smooth and designed to prevent dirt zones and accumulations of germs / bacteria. Many components can be removed with just one hand.



Cuspidor

- Made of porcelain
- Optional swivelling
- Critical, quickly contaminated components can be easily removed and disinfected

Surfaces

All surfaces of the arm system are flat and very easy for desinfection and cleaning.



Option: Aqua-Bottle-System

- Bottle solution
- Complete disinfection of the internal water lines





Cart

- · Removable cover plate
- Easy to disinfect





Operating lamps

- Removable handles
- Autoclavable

Operating Lights

Ritter operating lights - the high-end solution for a long life time cycle of daily work.

The proven lighting system is the excellent combination between lightened working field and the optimum of color temperature, e.g. for the choose of the right tooth color.





Ritter MoonLite, LED

- 2 LED lamps
- Intensity of light 60.000 lx
- Color temperature 5000K
- 2 brightness levels
- 3 hinged axis
- regular constant light spot at all lighting levels
- Power can be controlled by manual switch or sensor
- Grips are removable and autoclavable easily
- Protection shield with mirror (option)



ILLUMINATION

Ritter SunLite, LED

The perfect spotlighting:

- Precise illumination of the working field
- Color temperature 4.200 6000K
- Intensity of light 8.000 35.000 lx
- High quality for a long life time cycle



X-ray Device

Leadex 70: The Small x-ray device - mounted directly at the treatment unit.

- Meets all needs of intraoral dental radiology
- Flexible, fast and safe solution in order to produce an excellent small x-ray image chairside
- Compatible with standard films and digital x-ray sensors
- · Sharp and crisp images

Multimedia

Patient communication builds trust: Multimedia components.

Showing x-ray images and images of an integrated intra-oral camera creates trust when advising patients. The integrative Ritter concept facilitates a successful patient communication.





CartLite with iPad holder



Big x-ray viewer

Multimedia package, optional

- Integrated multimedia monitor
- Integrated intra-oral camera
- Complete system with camera and monitor
- High quality for a long life time cycle
- Ipad holder or big x-ray viewer

Intraoral Camera

- Bright, clear image under all conditions
- 15° larger angle of view thanks to the curved design
- Illumination by 8 LEDs reduces heat emission
- Aspherical lens avoids distortions
- Maximum clarity from portrait to tooth
- SoproTouch system handpiece control instead of foot switch
- Plug & Play Technology install and operate



Monitor

- 22" TFT-Monitor with sealed glass front
- Specially designed for medical use
- Smooth surfaces in a special design provide easy disinfection



Reliable and durable - proven in daily practice: The Ritter quality promise.

Working with a Ritter unit means being ideally prepared for the daily challenges in dentistry. The solid construction is based on many years of experience. Ritter dental units are very reliable, robust and durable. We only use materials of highest quality. The Contact World is entirely made of metal and varnished completely. The high-quality construction and finish of Ritter units bears a commitment for life. Thanks to easy access and clearly arranged components, even installation, service and maintenance are very easy.

Quality - Made in Germany: You can always rely on your Ritter unit!

Your favourite colors

Please choose your personal upholstery and varnish color:





Special coatings of the whole unit as well as partly coatings for water unit or cart are available in **all RAL** colors or metallic colors! Standard color is RAL 9003 / signal white.

Upholstery

- Seamless
- Colour proven and durable
- easy to remove due to velcro fasteners





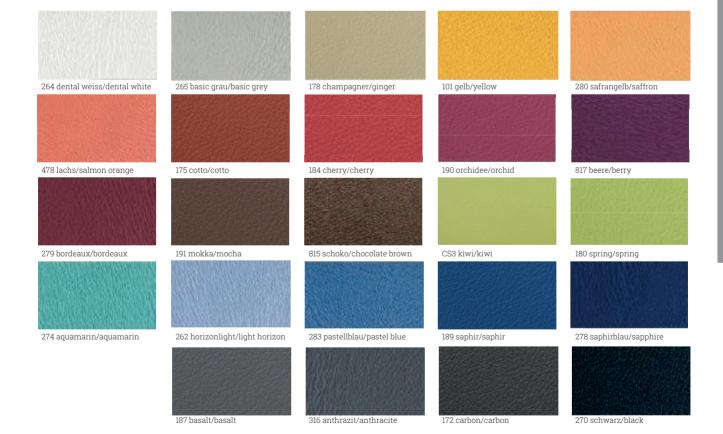


*ED3 grün/green

*ED1 anthrazit/anthracite







*ED2 schwarz/black

Shown samples may appear different in structure and color due to the printing process.

Dentist / Assistant stool GIRA-FLEX A and D Series

• General-purpose working stools with backrest or with footring



Stools

The Mobilorest series sets new standards in terms of ergonomics and fatigue-free work.

The high level of comfort and the rapid adjustment of seat positions make this working stool to a real job aid - for the doctor and the assistant - for a long practice everyday.

Dentist stool

156 for right-handers 156L for left-handers

- High grade metal components
- Asymmetrical backrest:
 Optimal support for the working hand and freedom for the other hand
 (for left and right-handed)
- foot control (hand control 150/150L)



ERGONOMIC



Assistant stool 158

- General-purpose working stool
- Symmetrical backrest
- foot control (hand control 151)



Dimensions

Contact World has the right dimensions - also for smaller practice rooms in all versions, whether as H-, S- or Cart-Version. With an operating range of approximately 2x3m, the slim unit perfectly adapts to every working environment. The dental operating lights can be ordered as ceiling- or unitmounted versions.

Information: A total of 2 connection points (1 standard / 1 alternative) offers additional flexibility, so that the unit can suit in every clinic room!



Features and Options



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STANDARD OPTION NOT AVAILABLE

CONTACT WORLD

Patient chair Trendelenburg movement Saving of positions Safety switch 1 articulated headrest mechanically 2 articulated head restraint mechanically Children's head rest Left armrest Right armrest, swiveling Seamless upholstery ViscoSoft Comfort Soft Pads I-panel Pilot foot controller External device connection Dentist element 3 Functional syringe TopFlex 3 Functional syringe TopJet 6 Functional syringe TopJet 6 Functional syringe Luzzani 1. Turbine equipment 2. Turbine device * 1 1. Motor RBL-15 LED 2. Motor RBL-15 LED ZEG Newtron with LED ZEG EMS no pain LED ZEG Kolibri S or E Quick couplings for instrument hoses Graphical display Multifunction panel 4 user levels for instr. + Chair radio. Instrument spray heating Small x-ray film viewer Large x-ray film On tray or cart * 6 Physiological saline pump Absorption for 2 standard trays * 2 Pneumatic brake for arm system * 4	Assistant element Instrument cleaning support 3 Functional syringe TopFlex 3 Functional syringe Luzzani Large suction hose Small suction hose LED polymerization handpiece 2-part arm with control panel 3-part arm with control panel Pneumatic selective storage Water unit Porcelain rinsing bowl Swiveling spittoon ABS Aqua Bottle System Flushing-glass heating	
	Dürr MSBV for wet suction Amalgam separator MST1 Metasys Amalgam Separator CAS1 Dürr Separation system MST1 ECO Light Metasys Automatic separation CS1 Dürr Double tray support * 3 Small X-ray equipment	0 0
	Comperating lights * 8 Ritter LED Sunlite / or Ritter LED MoonLite Stools Mobilorest 156/156L/158/150/150L/151 GIRA-FLEX A (with backrest or foot ring) GIRA-FLEX D (with backrest or foot ring)	•
	Multi media Intraoral camera with USB connection Monitor Neovo * 5	0

^{* 1} Max. 3 drilling instruments (2 turbines / 1 engine or 1 turbine / 2 engines), if without scaler - 2 turbines / 2 motors are possible
* 2 In the case of a swinging version, it is standard for 1 norm tray / optional for 2 norm trays
* 3 Only for C, HC and H versions (S-version optional)
* 4 Only for S, H and HC versions
* 5 Monitor on the cart or on the lamp pole
* 6 On Cart not in combination with monitor
* 7 Not possible with C-version or swiveling spittoon
* 8 only one light is standard, choosable

Contact Lite Comfort

Contact Lite Comfort - A true classic in design and functionality.

Based on the longterm experience and knowhow of Ritter, the Contact Lite Comfort combines outstanding technology and functionality with an attractive design - Made in Germany.

This combination provides enduring satisfaction in daily use and makes the Contact Lite Comfort

to one of the most popular dental units worldwide. Reliability is a top priority.

The longevity and solidity of the unit ensure minimal needs for service and maintenance. This is the guarantee for enthusiastic users!

ELEGANCE









Patient Chair

Take a seat and relax: Patient comfort for a smooth treatment at any time.

The patient chair of the Contact Lite Comfort provides excellent ergonomic and anatomical aspects for an optimal patient comfort and thus for a comfortable working situation.

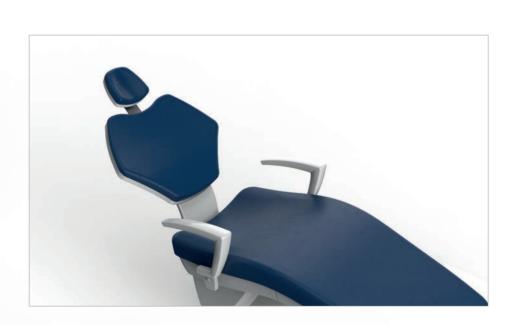


DESIGN



- simultaneous movement (Trendelenburg) for separate control of the backrest and seat
- Safe and comfortable positioning, even in extreme treatment situations
- Seamless surfaces and upholstery for easy disinfection
- Flexible control via foot pedal and function displays
- · Chair height 46-82 cm
- Optional: Right armrest movable
 Comfort is key: Contact Lite Comfort headrest

- Quick and easy positioning with the left hand
- Convenient positioning of the patient's head
- Movable, double-articulated headrest





Dentist Elements

Your individual choice:

Dentist element according to your personal preference. All versions contain a smooth swing arm with pneumatic break for the flexible positioning of the dentist element. (Exception: Cart version)

FLEXIBILITY









Control Display

Intuitive and user-friendly: Control of chair and instruments.

Easy and fast control of all functions of the treatment unit with a simple touch. Various user settings and memory functions ensure a perfecthandling.



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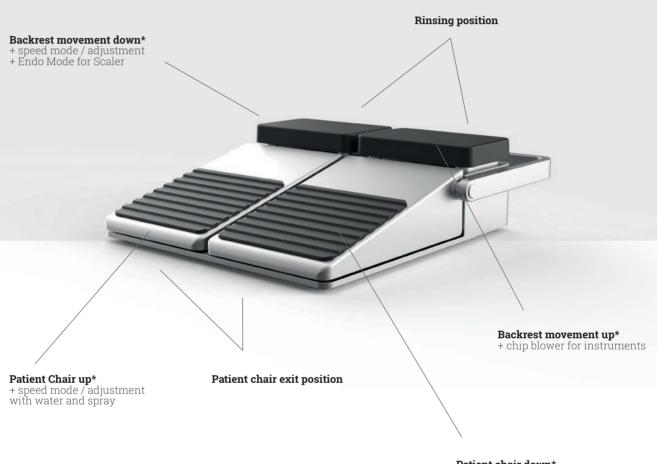
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 up to 4 different users
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- Timer
- 2. Instrument status

- F1 Activation Sprayheating
- F2 Activation multimedia mode
- F3 Activation Prophylaxis function
- F4 Security lock / sleeping mode
- F1 & F2, if options are choosed

Foot Controller



PRACTICABLE



 $\ensuremath{^{\star}}$ if all instruments are located in the holders

Patient chair down*
+ speed mode / adjustment
with water and spray



Assistant Side

Comfort is key: The assistant element

- Two-parted instrument arm for flexible positioning
 - regardless of the patient's position and treatment situation
- Built-in touch panel for the control of all main functions
- Ergonomically shaped suction handpieces for fatigue-free treatment
- No twisting of the hoses due to clearly arranged suspensions



Three parted instrument arm for more flexibility (option)



Option: Instrument cleaning support

- For instrument cleaning
- Easy access to internal components
- Easy disinfection



Water Unit

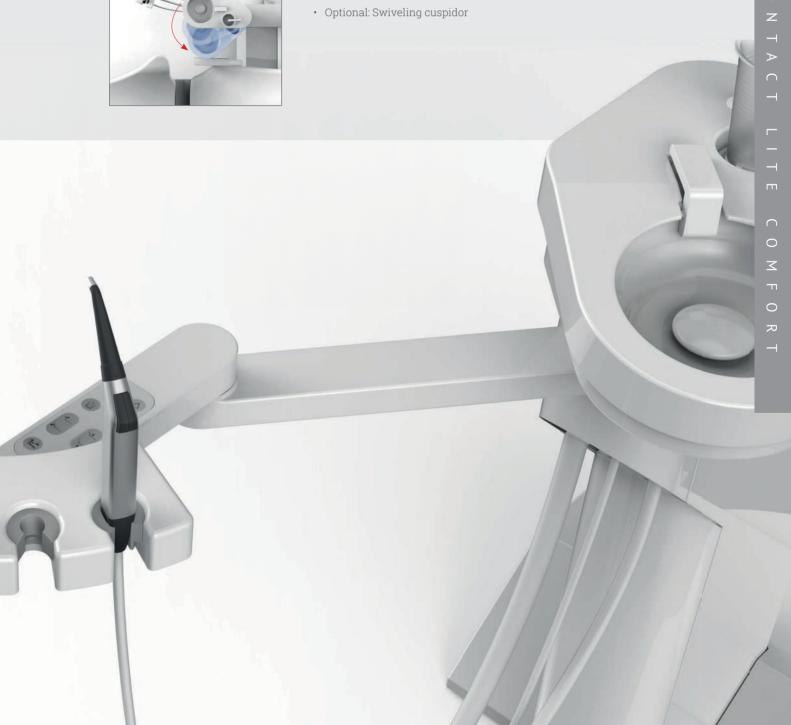






The spittoon element

- · Porcelain cuspidor
- Optimum hygiene by simple removal of the components



Hygiene

Your safety has priority: Hygiene made easy.

The Ritter Contact World is designed for fast and effective cleaning.

All critical areas and components are easily accessible and disinfectable. All surfaces are smooth and designed to prevent dirt zones and accumulations of germs / bacteria. Many components can be removed with just one hand.



Cuspidor

- · Made of porcelain
- Optional swivelling
- Critical, quickly contaminated components can be easily removed and disinfected

Surfaces

All surfaces of the arm system are flat and very easy for desinfection and cleaning.



Option: Aqua-Bottle-System

- Bottle solution
- Complete disinfection of the internal water lines





CartLite

- Removable cover plate
- Easy to disinfect





Operating lamps

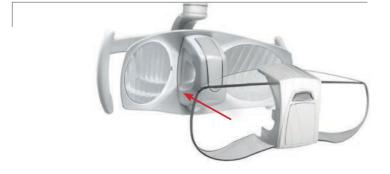
- Removable handles
- Autoclavable

Operating Lights

Ritter operating lights - the high-end solution for a long life time cycle of daily work.

The proven lighting system is the excellent combination between lightened working field and the optimum of color temperature, e.g. for the choose of the right tooth color.





Ritter MoonLite, LED

- 2 LED lamps
- Intensity of light 60.000 lx
- Color temperature 5000K
- 2 brightness levels
- 3 hinged axis
- regular constant light spot at all lighting levels
- Power can be controlled by manual switch or sensor
- Grips are removable and autoclavable easily
- Protection shield with mirror (option)



ILLUMINATION

Ritter SunLite, LED

The perfect spotlighting:

- Precise illumination of the working field
- Color temperature 4.200 6000K
- Intensity of light 8.000 35.000 lx
- High quality for a long life time cycle



X-ray Device

Leadex 70: The Small x-ray device - mounted directly at the treatment unit.

- Meets all needs of intraoral dental radiology
- Flexible, fast and safe solution in order to produce an excellent small x-ray image chairside
- Compatible with standard films and digital x-ray sensors
- · Sharp and crisp images

Multimedia

Patient communication builds trust: Multimedia components.

Showing x-ray images and images of an integrated intra-oral camera creates trust when advising patients. The integrative Ritter concept facilitates a successful patient communication.





CartLite with iPad holder



Big x-ray viewer

Multimedia package, optional

- Integrated multimedia monitor
- Integrated intra-oral camera
- Complete system with camera and monitor
- High quality for a long life time cycle
- Ipad holder or big x-ray viewer

Intraoral Camera

- Bright, clear image under all conditions
- 15° larger angle of view thanks to the curved design
- Illumination by 8 LEDs reduces heat emission
- Aspherical lens avoids distortions
- Maximum clarity from portrait to tooth
- SoproTouch system handpiece control instead of foot switch
- Plug & Play Technology install and operate





- 22" TFT-Monitor with sealed glass front
- · Specially designed for medical use
- Smooth surfaces in a special design provide easy disinfection



Reliable and durable - proven in daily practice: The Ritter quality promise.

Working with a Ritter unit means being ideally prepared for the daily challenges in dentistry. The solid construction is based on many years of experience. Ritter dental units are very reliable, robust and durable. We only use materials of highest quality. The Contact World is entirely made of metal and varnished completely. The high-quality construction and finish of Ritter units bears a commitment for life. Thanks to easy access and clearly arranged components, even installation, service and maintenance are very easy.

Quality - Made in Germany: You can always rely on your Ritter unit!

Your favourite colors

Please choose your personal upholstery and varnish color:





Special coatings of unit parts as well as partly coatings for water unit or cart are available in **all RAL colors or metallic colors!** Standard color is RAL 9003 / signal white.

Upholstery

- Seamless
- Colour proven and durable









Upholstery colors



red / rot berry / beere dark red / dunkelrot anthracite / anthrazit gold / gold gold / gold blue glitter / blau glitter light green glitter / hellgrün glitter fuchsia glitter / fuchsie glitter orange glitter / orange glitter cream white glitter /cremeweiß glitter silver / silber black glitter / Schwarz glitter black / schwarz grey / grau beige / beige lilac / flieder orange / orange orange light / orangelight cream white / cremeweiß green / grün aquamarine / aquamaringrün sapphire / saphirblau smoke blue / rauchblau light blue / hellblau sky blue / himmelblau



Stools

The MobiloLite series sets new standards in terms of ergonomics and fatigue-free work. The high level of comfort and the rapid adjustment of seat positions make these working stools to a real job aid - for the doctor and the assistant - for a long practice everyday.



ERGONOMIC





MobiloLite 30 - Dentist stool

- Balanced and ergonomic backrest
- High quality, dual castors system
- With Footring available
- Hight adjustable backrest



Dimensions

Contact Lite Comfort has the right dimensions - also for smaller practice rooms in all versions, whether as H-, S-, HC- or Cart-Version. With an operating range of approximately 2.5x3m, the slim unit perfectly adapts to every working environment. The operating lights can be ordered as ceiling- or unit-mounted version.

Information: A total of 2 connection points (1 standard / 1 alternative) offers additional flexibility, so that the unit can suit in every clinic room!



Features and Options



0

STANDARD OPTION NOT AVAILABLE

CONTACT LITE COMFORT

Patient chair Trendelenburg movement Saving of positions Safety switch Double articulated headrest mechanically Double articulated headrest pneumatic Left armrest Right armrest, swiveling Seamless upholstery I-Panel		Instrument cleaning support 3 Functional syringe TopFlex 3 Functional syringe Luzzani 6 Functional syringe Luzzani Large suction hose Small suction hose LED polymerization handpiece 2-part arm with control panel 3-part arm with control panel Selective holder Water unit Porcelain rinsing bowl Swiveling spittoon	
Dentist element 3 Functional syringe TopFlex 6 Functional syringe Luzzani 1. Turbine equipment 2. Turbine device * 1 1. Motor RBL-15 LED 2. Motor RBL-15 LED 1 Motor Infinity brushless LED 2 Motor Infinity brushless LED ZEG Satelec with LED ZEG Kolibri S or E Graphical display Multifunction panel 4 user levels for instr. + Chair radio. Instrument spray heating Small x-ray film viewer Large x-ray film On tray or cart * 6 Absorption for 2 standard trays * 2 Pneumatic brake for arm system * 4		ABS Aqua Bottle System Cup heating Dürr Bowl Rinse Valve for wet suction Amalgam separator MST1 Metasys Amalgam Separator CAS1 Dürr (Separation system) MST1 ECO Light Metasys Automatic separation CS1 Dürr Double tray support * 3	
		Small X-ray equipment LEADEX 70 AC or DC * 7 Operating lights Ritter LED Sunlite / or Ritter LED MoonLite	•
		Stools MobiloLite 10/30 with footring Multi media	0
		Intraoral camera with USB connection Monitor Neovo * 5	0

Assistant element

^{* 1} Max. 3 drilling instruments (2 turbines / 1 motor or 1 turbine / 2 motors), if without scaler, 2 turbines / 2 motors possible
* 2 In the case of a swinging version, it is standard for 1 norm tray / optional for 2 norm trays
* 3 Only for C-, HC- and H version (S-version optional)
* 4 Only for S-, H- and HC version
* 5 Monitor on the cart or on the lamp pole
* 6 On Cart not in combination with monitor
* 7 Not possible with C-version or swiveling spittoon

^{* 7} Not possible with C-version or swiveling spittoon









Ritter R400

Aesthetics and individuality - not only in preventive care

The Ritter R400 combines efficiency and userfriendly handling with pure aesthetics and individuality.

It improves the productivity in the dental office with simple and practical solutions.

The careful selection of high-quality materials, a very attractive design and outstanding functionality guarantee fantastic results.

In terms of design the Ritter R400 amazes with elegant glass elements in fresh colours that can be customized according to the personal taste.

The Ritter R400 is not only the ideal unit for preventive care, but also the favourite for every modern practice and every treatment!



Ergonomics and Wellness: Take a seat and relax. The stylish and ergonomically shaped patient chair ensures maximum comfort for patients and users.

- Simultaneous movement (Trendelenburg) of backrest and seat
- Safe and comfortable positioning, even in extreme treatment situations
- Powerful and smooth running motors for seat and backrest
- Smooth, seamless upholstery, easy to clean and disinfect
- Flexible regulation via foot control and operating elements
- 3 automatic positions
- Rinsing position/last position
- Safety switches: Backrest, deepest position, assistant element
- Optional: Right armrest, movable

Upholstery

• Seamless or with stitches ViscoSoft (similar to Tempur®)



Double-articulated headrest: Relaxed patients - relaxed treatments

- Easy and comfortable positioning with the left hand
- Comfortable positioning of the patient's head in every treatment position
- Optimal for children and elderly patients



Multi-function foot-controller

Comfortable & time saving

- One of the most ergonomic foot-controller in the market
- Activation via photo sensor relaxed foot position
- Continuous speed regulation of the instruments
- Fast & easy activation of all functions



Dentist elements

Easy handling and efficient treatments: According to the personal preference, two different versions are available, which allow an easy adjustment of the instruments, some of them even visualize the performance potential.

FLEXIBILITY

"H" Version with hanging hoses

- Comfortable instrument removal and replacement
- Perfect treatment in all positions
- Perfect ergonomics at any time
- 6 instrument holders



Sensor technology

The instrument holders:

- Activation via sensor technology
- No ingression of dirt & liquids, therefore no influence on electronics & other parts
- Easy cleaning & disinfection
- High-quality, special plastic without wear-out effect
- No deformation/material fatigue due to disinfectants



- Instrument placement without eye contact
- Perfect treatment in all positions (even without assistant)
- Very good guidance when taking and placing-back the instrument
- No "pullback-effect" during the treatment due to an optimal weight balance between instrument and hosing system
- · Comfortable and convenient working
- 5 instrument holders



Motor technology

The new generation of brushless micro-motors

- Precise, durable, wear-free, sterilizable
- Great speed range 100 40.000 r/min new versatility
- Optimal balance of instrument & motor





Best illumination where it is needed:
The Ritter LED SunLite operating light

- Precise adaption to the working area
- Light intensity max. 35.000 lx
- Color temperature 4.200 K 6.000 K
- · Long lifespan

Hygiene

Safety for users and patients: Hygiene made easy

The Ritter R400 is made for fast and effective cleaning. All critical parts and components are easily accessible and disinfectable. The surfaces are smooth and designed to prevent dirt zones and accumulations of germs and bacteria. Many components can be removed in just one simple step.

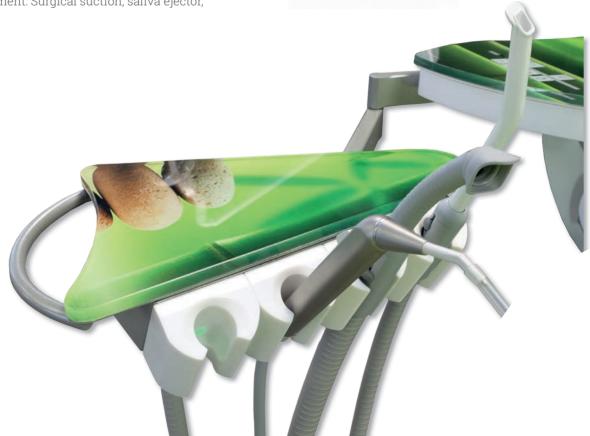


Assistant element

Flexibility for maximum efficiency

- Treatment with 2 hands without loosing contact to the patient
- Quick instrument change without new positioning of the users
- Max. 4 holders: 2 cannulas, syringe, curing light
- Control-buttons for water glass, spittoon-bowl and chair
- Basic equipment: Surgical suction, saliva ejector, 3F syringe



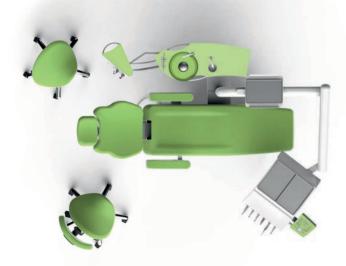


Water unit

Optimal hygiene and maintenance

- · Chair mounted water unit
- Water bottle or tap water connection
- Ritter selective controller for suction hoses
- Optional amalgam & separator solutions
- Easy solutions perfect efficiency & processes
- · Cover made of glass
- Easy to clean and disinfect
- Movable water unit with integrated spittoon

WORKFLOW





Our quality commitment

The surface-parts of the Ritter R400 Smart treatment units are made from pure metal and polyester with a highquality gelcoat-coating.

No regular plastic parts being used. Extraordinary stability and a long-term consistent appearance (free of any yellowing) are the clear advantages of this combination. The parts are of the highest quality.





Stools

GIRA-FLEX D & D-PLUS for dentists

- High-quality upholstery
- Made in Germany
- Very ergonomic
- Saddle seat tilts up to 5°
- Soft substructure
- · Long lifespan
- "PLUS": Height-adjustable backrest



- High-quality upholstery
- Made in Germany
- Consistent weight distribution
- Seating core of PUR foam element
- "PLUS": Height-adjustable backrest







Individual design of the glass elements

Individuality meets personality: Individual design of glass surfaces

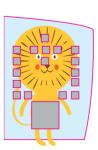
All glass elements of the Ritter R400 can be designed according to your personal preferences with an attractive selection of images or personal motifs.

Ask your dental dealers for examples and ideas.

Samples of individual glass elements: Water Unit, Assistant- and Doctor's touch panel







NOTE: Requirements for own picture motifs

All own motifs or image files must be present in a high resolution of at least 300 DPI at 1:1 size. For the glass surface of the water unit, the file width would be e.g. 90 cm. Logos should be submitted as vector .EPS. In principle, all image and copyrights must be available and acquired. Ritter offers you a variety of sample motifs in a sample book - ask us!

Upholstery colours

Ask your dental dealer for the R400 pattern folder.



Shown samples may appear different in structure and colour due to the printing process.

* Not available in ViscoSoft

Glass colours

All glass elements such as spittoon, surfaces of the water unit as well as the control panel of the dentist element can be ordered within the range of the standard glass colours. Combinations are also possible. The rinsing bowl is also available in milk glass. Caution: On colored spittoons may occur small irregularities in the glass material!





Features and options Ritter R400

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STANDARD

OPTION

NOT AVAILABLE

Patient chair		Assistant element	
Trendelenburg movement			
Storage of positions		Operating panel Extendable Assistant Element	
Safety switch			
		3 Functional syringe Luzzani	
Articulated headrest mechanically		6 Functional syringe Luzzani	0
Double articulated headrest mechanically		Big suction hose Small suction hose	
Left armrest			
Right armrest, swiveling	0	LED Polylight	0
Seamless upholstery		Selective holder	
ViscoSoft upholstery set	Ō		
Multifunctional foot controller	•	Water unit	
External device connection	0	Glass bowl	
		ABS Aqua Bottle System	
Dentist element		Water disinfection system Metasys	0
3 Functional syringe Luzzani		Cup heating	0
6 Functional syringe Luzzani	0	Dürr spittoon valve for wet suction	
1. Turbine outlet F.O.		Amalgam sep. Compact Dynamic Metasys	0
2. Turbine outlet F.O.	0	Amalgam sep. CAS1 Dürr	\circ
1. Motor RBL-15 LED, brushless		Automatic separation system MST1	\circ
2. Motor RBL-15 LED, brushless	0	Automatic separation CS1 Dürr	\circ
EMS no pain LED Scaler	0	Double tray support *	\circ
Kolibri S or E Scaler	0		
Control panel made of glass		Operating light	
Instrument spray heating	0	Ritter LED SunLite	
Small x-ray film viewer			
Place for 2 standard trays		Stools	
Manual brake for arm system	•	GIRA-FLEX A (with backrest / foot ring)	\circ
,		GIRA-FLEX D (with backrest / foot ring)	\circ
		3,	
		Multi-media	
		Intraoral camera with USB connection	0
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Monitor Neovo

* only with "S" version





AESTHETICS



Ritter R400 Smart

Aesthetics and individuality - not only in preventive care

Efficient & user friendly handling.
Practical solutions. High-quality materials.
Attractive design. Outstanding functionality.
Elegant glass elements in fresh colours.
Individual design, according to your taste.
Ideal unit for every modern clinic.
Simply smart.





Ergonomics and Wellness: Take a seat and relax. The stylish and ergonomically shaped patient chair ensures maximum comfort for patients and users.

- Simultaneous movement (Trendelenburg) of backrest and seat
- Safe and comfortable positioning, even in extreme treatment situations
- Powerful and smooth running motors for seat and backrest
- Smooth, seamless upholstery, easy to clean and disinfect
- Flexible regulation via foot control and operating elements
- 3 automatic positions
- Rinsing position/last position
- Safety switches: Backrest, deepest position, assistant element
- Optional: Right armrest, movable

Upholstery

• Seamless, optional with ViscoSoft (similar to Tempur®)



Double-articulated headrest: Relaxed patients - relaxed treatments

- Easy and comfortable positioning with the left hand
- Comfortable positioning of the patient's head in every treatment position
- Optimal for children and elderly patients



Multi-function foot-controller

Comfortable & time saving

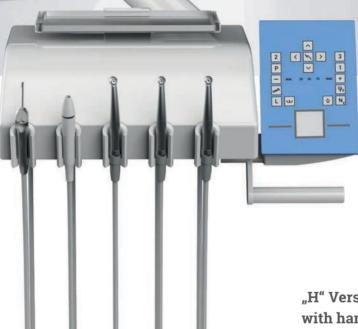
- One of the most ergonomic foot-controller in the market
- Activation via photo sensor relaxed foot position
- Continuous speed regulation of the instruments
- Fast & easy activation of all functions



Dentist elements

Easy handling and efficient treatments: According to the personal preference, two different versions are available, which allow an easy adjustment of the instruments, some of them even visualize the performance potential.

FLEXIBILITY



"H" Version with hanging hoses

- · Comfortable instrument removal/ replacement
- · Perfect treatment in all positions
- · Perfect ergonomics
- · 5 instrument holders



- · Instrument placement without eye contact
- · Perfect treatment in all positions
- · Very good guidance during take-away/ placement of the instruments
- · No pullback-effect
- · Optimal weight balance between instrument and hosing system
- · Comfortable, convenient working
- · 5 instrument holders



Motor technology

The new generation of brushless micro-motors, optional:

- Precise, durable, wear-free, sterilizable
- Great speed range 100 40.000 r/min new versatility
- Optimal balance of instrument & motor





Operating light

Best illumination where it is needed: The Ritter LED CoolLite operating light

- · 3.000 35.000 lx
- · Shadow-reducing effect
- · Removeable, sterilizable handles
- · Realistic color match
- · Colour temperature 5.000 K

Hygiene

Safety for users and patients: Hygiene made easy

The Ritter R400 Smart is made for fast and effective cleaning. All critical parts and components are easily accessible and disinfectable. The surfaces are smooth and designed to prevent dirt zones and accumulations of germs and bacteria. Many components can be removed in just one simple step.

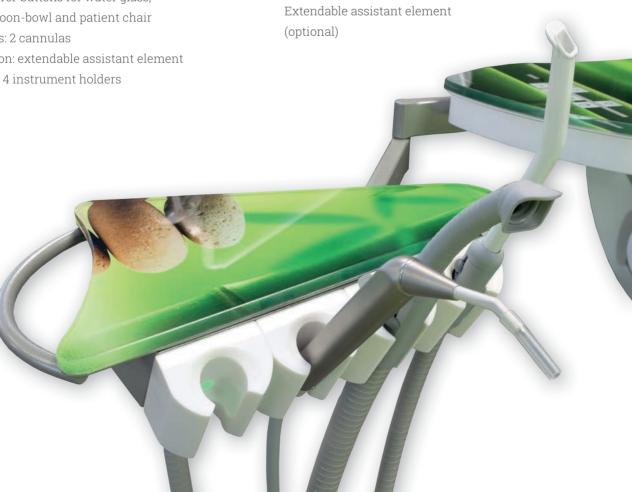


Assistant element

Flexibility for maximum efficiency

- · Flexibility and efficiency
- · Quick instrument change
- · Up to 3 instrument holders
- · Control-buttons for water glass, spittoon-bowl and patient chair
- · Basis: 2 cannulas
- · Option: extendable assistant element with 4 instrument holders





DESIGN



Water unit

Optimal hygiene and maintenance

- Chair mounted water unit
- Aqua bottle system or automatic disinfection system
- Ritter selective controller for suction hoses (optional)
- Optional amalgam & separator solutions
- Easy solutions perfect efficiency & processes
- · Cover made of glass
- Easy to clean and disinfect
- Removable and autoclavable spittoon element



Our quality commitment

The surface-parts of the Ritter R400 Smart treatment units are made from pure metal and polyester with a highquality gelcoat-coating.

No regular plastic parts being used. Extraordinary stability and a long-term consistent appearance (free of any yellowing) are the clear advantages of this combination. The parts are of the highest quality.





Spittoon element: Aesthetics pure

- Removable & autoclavable
- · Chair mounted spittoon & water unit, therefore synchronic movement with chair
- Comfort and efficiency, up to the very detail





Stools

GIRA-FLEX D Smart for dentists

- High-quality upholstery
- Made in Germany
- Very ergonomic
- Saddle seat tilts up to 5°
- Soft substructure
- · Long lifespan
- "PLUS": Height-adjustable backrest



GIRA-FLEX A Smart for assistants

- High-quality upholstery
- Made in Germany
- Consistent weight distribution
- Seating core of PUR foam element
- "PLUS": Height-adjustable backrest





Individual design of the glass elements

Individuality meets personality: Individual design of glass surfaces

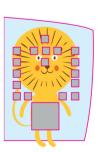
All glass elements of the Ritter R400 Smart can be designed according to your personal preferences with an attractive selection of images or personal motifs.

Ask your dental dealers for examples and ideas.

Samples of individual glass elements: Water Unit, Assistant- and Doctor's touch panel







NOTE: Requirements for own picture motifs

All own motifs or image files must be present in a high resolution of at least 300 DPI at 1:1 size. For the glass surface of the water unit, the file width would be e.g. 90 cm. Logos should be submitted as vector .EPS. In principle, all image and copyrights must be available and acquired. Ritter offers you a variety of sample motifs in a sample book - ask us!

Upholstery colours

Ask your dental dealer for the R400 Smart pattern folder. *ED1 anthrazit/anthracite *ED3 grün/green *ED2 schwarz/black 264 dental weiss/dental white 265 basic grau/basic grey 178 champagner/ginger 101 gelb/yellow 280 safrangelb/saffron 478 lachs/salmon orange 175 cotto/cotto 184 cherry/cherry 190 orchidee/orchid 817 beere/berry 279 bordeaux/bordeaux 191 mokka/mocha 815 schoko/chocolate brown CS3 kiwi/kiwi 180 spring/spring 262 horizonlight/light horizon 189 saphir/saphir 278 saphirblau/sapphire 274 aquamarin/aquamarin 283 pastellblau/pastel blue 187 basalt/basalt 316 anthrazit/anthracite 172 carbon/carbon 270 schwarz/black

> Shown samples may appear different in structure and colour due to the printing process.
>
> * Not available in ViscoSoft

Glass colours

All glass elements such as spittoon, surfaces of the water unit as well as the control panel of the dentist element can be ordered within the range of the standard glass colours. Combinations are also possible. The rinsing bowl is also available in milk glass. Caution: On colored spittoons may occur small irregularities in the glass material!





Features and options Ritter R400 Smart

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STANDARD

OPTION

NOT AVAILABLE

Patient chair		Assistant element	
Trendelenburg movement	•	Operating panel	
Storage of positions	•	Extendable Assistant Element	\circ
Safety switch	•	3 Functional syringe	\circ
Articulated headrest mechanically	-	Big suction hose	
Double articulated headrest mechanically		Small suction hose	
Left armrest		LED Polylight	\circ
Right armrest, swiveling	\circ	Selective holder	\circ
Seamless upholstery			
ViscoSoft upholstery set	\circ	Water unit	
Multifunctional foot controller		Glass bowl	
External device connection	-	ABS Aqua Bottle System	
		Water disinfection system Metasys	\circ
Dentist element		Cup heating	\circ
3 Functional syringe standard		Dürr bowl rinse valve for wet suction	\circ
1. Turbine outlet F.O.		Amalgam sep. Compact Dynamic Metasys	\circ
2. Turbine outlet F.O.	\circ	Amalgam sep. CAS1 Dürr	\circ
1. Motor Infinity brushless	\circ	Automatic separation system MST1	\circ
2. Motor Infinity, brushless	\circ	Automatic separation CS1 Dürr	\circ
1. Motor RBL-15 LED, brushless	\circ	Double tray support *	\circ
2. Motor RBL-15 LED, brushless	\circ		
Kolibri S or E Scaler LED	\circ	Operating light	
Control panel made of glass		Ritter LED CoolLite	
Instrument spray heating	0		
Small x-ray film viewer		Stools	
Place for 2 standard trays		GIRA-FLEX A Smart (with backrest / foot ring)	\circ
Manual brake for arm system	•	GIRA-FLEX D Smart (with backrest / foot ring)	
		Multi-media	

Monitor preparation

* only with "S" version

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COMFORT

Left and right swivable

The left and right swivable unit can be switched from right hand use to left hand use very easily.

The patient chair is synchronized - available as electricor hydraulic version and has a 30° chair movement for easy access.

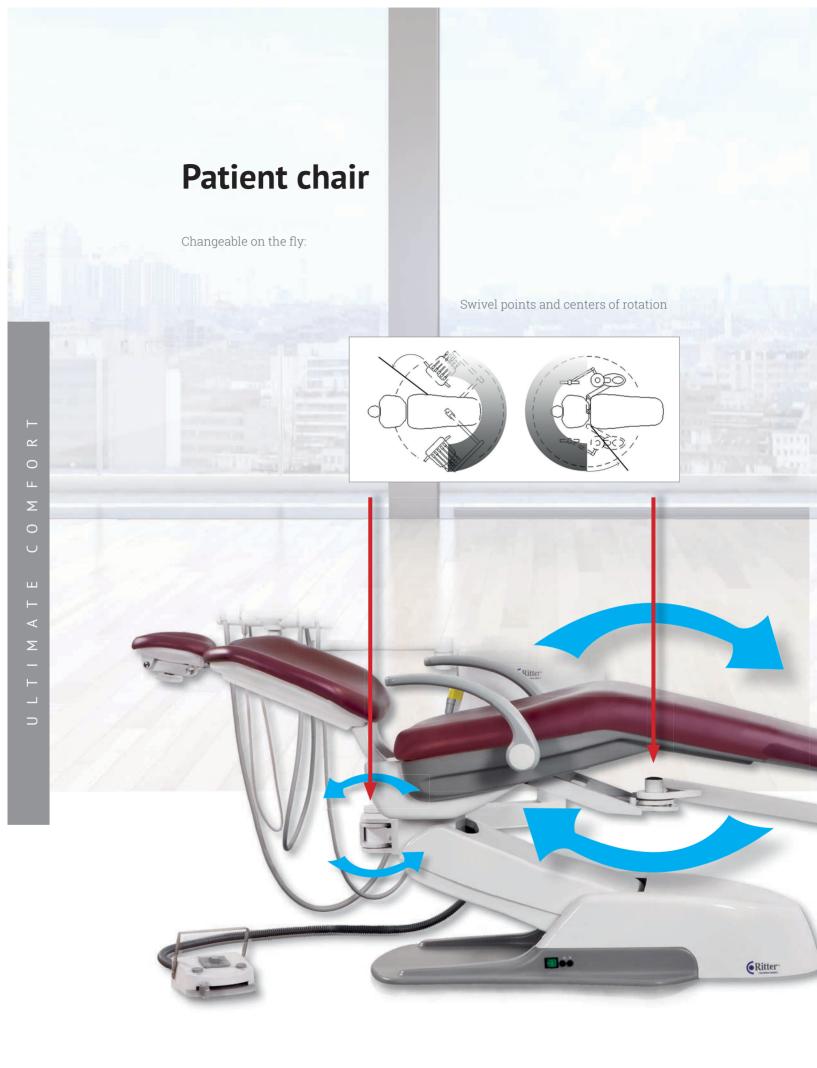
The unit has a memory-system

- spittoon position
- last position
- light off / light on

The water unit has a self-contained clean water system. The multifunctional foot pedal control system is easy to use and supports an excellent workflow.

The Ultimate Comfort is outstanding ergonomic and efficient for the daily use.







VARIABILITY

Patient chair

- · Electric or hydraulic chair movement for fast and quiet movements
- Ergonomic design for comfortable seating also during long treatments
- · Broad space for dentist's legs
- · High-quality leather upholstery
- · Chair swivel 30° left/right
- · 4 programmable chair positions, plus last position
- Auto return function :
 If the safety switch is activated, the chair automatically goes up for a few cm
- · Safety switches
- · Trendelenburg movement:

 Seat and backrest movement synchronized
- · Left and right armrest
- · Double-articulated headrest





Dentist elements

S-Version, swinging version

- Traytable available
- · Pneumatic arm brake mechanism
- · Up to 5 instruments
- · 2 touchpanels with x-ray viewer
- 4 programmable patient chair positions, plus last position
- · Optional brushless motors with LED

H-Version, hanging version

- · Traytable available
- · Pneumatic arm brake mechanism
- · Up to 5 instruments
- · 2 touchpanels with x-ray viewer
- · 4 programmable patient chair positions, plus last position
- · Optical sensors in instrument holders
- · Optional brushless motors with LED

Control panel

- · Touchpanels with x-ray viewer
- · 4 programmable patient chair positions, plus last position



· Removable silicon pad for easy cleaning and disinfection (S-Version)





Assistant Element

- · Integrated touch panel
- · Up to 4 instruments
- · Large and small suction hose
- · Assistant syringe
- · Double-articulated and adjustable arm movement





Double articulated assistant arm, hight adjustable

Foot controller

Modern design for chair movement and instruments:

- · Large foot handle for easy repositioning
- · Manual control of chair movements
- Up/down of backrest and chair

Program control of chair movements:

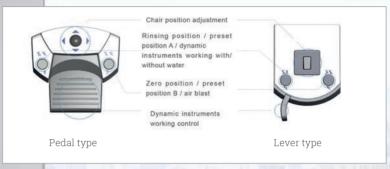
- Spitting position/last treatment position
- Free programmable chair positions
- Entry / Exit position

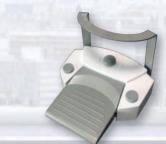
Control of instruments:

- Speed/power control for the active instrument
- Individual water on/off mode for each instrument line Buttons:
- Spray water at instrument
- Chip blower function

Versions:

- · Standard lever type
- · Optional pedal type





Stool



- · Backrest with fixed position or dynamic movement
- · Ergonomic and comfortable seating
- · Symmetrical backrest
- · Gas lift cylinder
- · Chrome legs
- · Five dual castors for stability
- · Colour-matching upholstery available in multiple colours
- · Available with or without footring

Optimum use of room



The Ultimate Comfort is also very well suited for smaller clinic rooms, in which only limited space is available.

Measurements in mm

EFFICIENCY



Upholstery colours

Upholstery colours:

Multiple fresh and modern colours are available.

DIVERSITY





0# (PEA) green 1# (PEB) skyblue 5# (PEC) orange 9# (PED) light green 11# (PEE) silver 13# (PEF) grey black 14# (PEG) 15# (PEH) rose red 16# (PEI) red 17# (PEK) lemon 18# (PEL) dark red 19# (PEM) night blue

Shown samples may appear different in structure and colour due to the printing process.

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Features and options

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STANDARD OPTION NOT AVAILABLE

Patient chair

Trendelenburg movement
Storage of positions
Safety switch
2 articulated headrest mechanically
Left and right armrest
Seamless upholstery
Multifunctional control
30° chair movement

Dentist element

3 Functional syringe
3 outlets for turbine or air motor without light
Fibre optic outlets
Motor Infinity brushless LED
ZEG Kolibri S or E
Small x-ray film viewer
Recording for 2 standard trays

Assistant element

Operating panel
Adjustable assistant element
3 Functional syringe
Large suction hose
Small suction hose
LED polymerization handpiece

Water unit

Moveable ceramic cuspidor
ABS Aqua Bottle System
Heating for cup filler
Connection for external suction
Place selection valve
Venturi System

Operating light

Ritter SunLite LED Ritter CoolLite LED

Stools

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Mobilo Flex 50 Mobilo Flex 50 with footring

Multi-media

Intraoral camera



Also available with seamed and soft comfort upholstery.



The patient chair is synchronized and is electric driven. An ergonomic chair hight guarantees easy access. The water unit has a self-contained clean water system. The multifunctional foot pedal control system is easy to use and supports an excellent workflow.



- spittoon position
- last position
- light off / light on

The Ultimate Comfort Smart is outstanding ergonomic and efficient for the daily use.



S M A R T C O M F O R T

Patient chair

- · Electric chair movement for fast and quiet movements
- · Ergonomic design for comfortable seating also during long treatments
- · Broad space for dentist's legs
- · High-quality leather upholstery
- · 4 programmable chair positions, plus last position
- · Auto return function:

 If the safety switch is activated, the chair automatically goes up for a few cm
- · Safety switches
- · Trendelenburg movement:
 Seat and backrest movement synchronized
- · Left and right armrest
- · Double-articulated headrest







S M A R T I L L U M I N A T I O N



Operating light

Illumination where it is needed: The Ritter LED operating light

- · Intensity of light 8.000 30.000 lx
- · Sensor switch rear side by hand movement
- · Colour temperature 5.000 K
- · Adjustable temperature color
- · Adjustable light intensity
- · Low heat emission
- · Precise illumination of the working field





Assistant element

Flexibility for maximum efficiency

- · Integrated touch panel
- · Up to 4 instruments
- · Large and small suction hose
- · Assistant syringe









Chair position adjustment

Rinsing position / preset position A / dynamic instruments working with/

Zero position / preset position B / air blast

Dynamic instruments working control



Foot controller

Modern design for chair movement and instruments:

- · Large foot handle for easy repositioning
- · Manual control of chair movements
- Up/down of backrest and chair Program control of chair movements:
- Spitting position/last treatment position
- Free programmable chair positions
- Entry / Exit position

Control of instruments:

- Speed/power control for the active instrument
- Individual water on/off mode for each instrument line

Buttons:

- Spray water at instrument
- Chip blower function

Versions:

- Standard lever type
- Optional pedal type



Standard lever type



Optional pedal type

Stool

- Backrest with fixed position or dynamic movement
- · Ergonomic and comfortable seating
- · Symmetrical backrest
- Gas lift cylinder
- · Chrome legs
- · Five dual castors for stability
- · Colour-matching upholstery available in multiple colours
- · Available with or without footring



Upholstery colours

For stool and patient chair. Ask your dental dealer for the Ultimate Comfort Smart pattern folder.



0#	(PEA)	green
1#	(PEB)	skyblue
5#	(PEC)	orange
9#	(PED)	light green
117	# (PEE)	silver
13	# (PEF)	grey
14	# (PEG)	black
15	# (PEH)	rose red
16	# (PEI)	red
17	# (PEK)	lemon
18	# (PEL)	dark red
19	# (PEM)	night blue

Shown samples may appear different in structure and colour due to the printing process.



SMART OPTIONS

Features and options Ultimate Comfort Smart

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STANDARD

OPTION

NOT AVAILABLE

Patient chair

Trendelenburg movement	
Storage of positions	
Safety switch	
2 articulated headrest mechanically	
Left and right armrest	
Seamless upholstery	
Multifunctional control	

Dentist element

Dentist element	
3 Functional syringe	
3 outlets for turbine or air motor without light	
Fibre optic outlets	
Motor Infinity brushless LED	
ZEG Kolibri S or E	
Small x-ray film viewer	
Recording for 2 standard travs	

Assistant element

Operating panel	
Moveable assistant element	
3 Functional syringe	
Large suction hose	
Small suction hose	
LED polymerization handpiece	

Water unit

water and	
Moveable ceramic cuspidor	
ABS Aqua Bottle System	
Heating for cup filler	
Connection for external suction	(
Place selection valve	(
Venturi System	

Operating light

Ritter LED	•
Ritter SunLite LED	C

Stools

0.10010	
Mobilo Flex 50	
Mobilo Flex 50 with footring	0

Multi-media

Intraoral camera O





Ritter Autoclave Class B Made by Ritter Germany





LCD display & integrated printer

The user-friendly, multi-language LCD display indicates temperature, pressure, time and cycle status. It allows an easy selection of the 13 different programmes. Any aviation or errors are shown in the display and are partially accompanied by an acoustic signal. CleanTec CB23 includes an internal printer for documentation. Also a USB 3.0 connection for easy data saving is integrated.

Technical Specifications

Overall dimensions (L x H x D) 505 x 400 x 650 mm Weight (with empty tanks) 50 kg

Weight (with full tanks) 55 kg

Weight per unit area of support: Max. 32.46 N/cm² Colour: RAL9002

Material: SUS304 Steel FeP01 Steel (Cover) 54 dBA

Noise level at 1 m distance: Noise level in front of the display: 63 dBA

6.3 MJ/h (1506 kcal/h) Max. transmitted heat

Electrical specifications

230 V ~ 50/60 Hz Rated voltage

Rated input: 1750 W

Supply cable (L 1.5 m) 2+1 x 1.5 mm²

Fuses T6A Class I

Chamber specifications

Insulation

Max. working pressure: 0.21 MPa (relative) Max. working vacuum: -82 kPa (relative) Max. vacuum (drying process): -94 kPa (relative)

Max. working temperature: 137°C

Stainless steel SUS 304 Material:

Dimensions: ØxP 250 x 450 mm

Clean water tank + Dirty water tank specifications

4.5 l Max. capacity: Cycles per tankful ~4 (before the min. level indicator lights up) Stainless steel

Material:

Bacterial filter data maximum diameter 56 mm max. allowed filtering capacity No. of cycles before replacement









STERILIZATION

LCD-Display



High-Quality Components & Reliability

The high performance pump has a very long lifespan and a 2-year warranty.

Also it guarantees a low operation noise level (<54 dBA in 1 m distance). The premium valves even come with a 4-year warranty.

The stainless steel tank is robust and easy to clean. Revised electronic components and software updates correspond to the latest standards.

Due to the high quality of the components, CleanTec CB23 requires only little maintenance.

The CE-certified device is also available in an 80 liter version for big clinics.

Including internal printer



Performance & Efficiency

CleanTec CB23 fully corresponds to the requirements of class B autoclaves. The high performance double stage vacuum pump creates a fractionated pre- and post vacuum, which guarantees efficient sterilization and drying processes. The optimum heat retention ensures a low level of energy consumption.

Also the CleanTec CB23 facilitates the quick availability of instruments and textiles after 23 minutes (unwrapped solid cycle) and only 13 minutes (quick cycles). The patented autolock door-system provides extra safety. CleanTec CB23 contains a built-in water storage tank and can optionally be connected to the demineralisation system and the drain.

Leadex 70

The Leadex 70 is designed for all needs of intraoral dental radiology in the modern dental practice. Integrated directly at your Ritter dental unit, Leadex 70 is a flexible, fast and safe solution to produce an excellent small x-ray image chairside. Compatible with standard films and digital x-ray sensors, it guarantees sharp and high-contrast images at an attractive price.

The control unit is easy and intuitive to use. It can be mounted directly on the wall in the treatment room or in a side room (cables from the unit in the ground). The x-ray procedure is effected via the control panel or via the included remote control unit.

X-RAY DEVICE





Technical Data

Dental x-ray Leadex 70 - Intraoral x-ray for analog and digital x-ray

AC

Tube head:

Frequency:

Voltage: 220 V; 230 V; 240 V; 115 V 230; 115 V

-5%+10% +/-15% 50/60 Hz 50/60 Hz

same as AC

Main resistance: 0.5 Ohm; 0.2 Ohm 0.5 Ohm; 0.2 Ohm

Current: 3,5 A; 3,2 A; 3 A; 5,5 A 6 A; 11 A Fuse: 6,3 AF; 8 AF-250 V 8;12,5 AF-250 V Focal spot: 0.7 0.7

Connection: coaxial plug, free

rotation in horizontal plane

High Voltage

60-70 kV Potential: 70 kV 8mA Anodic Current: 8 mA 4-8 mA Duty Cycle: 1:32 1:32 Total Filtration: 2.0 mm Al 2.0 mm Al 2,0 mm Al@70 kV 2,0 mm Al@70 kV Half layer value: < 0,25 mGy/h@1 m < 0,25 mGy/h@1 m Radiation leakage: Exposure time: 0,08 s + 3,2 s (17 Steps) 0,02 s-3,2 s (28 Steps)

AC/DC all:

Beam limiting device

Output section: round ; rectangular Focus Skin Distance: 20cm; 30cm

Mounting

System: Wall /Mobile/Unit mounting

Extension arms: 41, 82 and 110cm

Useful reach: 143cm with 41cm ext. arm

184cm with 82cm ext. arm 212cm with 110cm ext. arm

Total weight 29 kg 19,5 kg





Compressors and Suctions

OUR COMPRESSORS ARE UNIQUE

During normal daily operations, especially in sensitive settings such as scientific labs, as well as medical and dental offices, it is crucial not to have equipment malfunction and failure. Interruptions of this nature adversely impact quality, timing, and cost — essential elements in today's

highly competitive market. For this reason Ritter Gentilin tends to be a source of information in a segment increasingly large and elaborate, where it becomes all too easy to get lost among its numerous and diverse options.

Ritter offers compressor systems for one or multiple units.







OUR SELLING POINTS



64 Dba: EXCEPTIONAL LOW NOISE ACROSS THE BOARD, INCLUDING STANDARD MODELS



EFFICIENCY +20% INCREASED AIR DELIVERY



10 bar operation



A FURTHER DROP OF 10-15 Dba
BY MEANS OF NOISE REDUCTION
FEATURES



Contamination-free air with filters up to 0.01 micron



LOW-ABSORPTION MOTORS - NO OVERHEATING CONCERNS



PATENTED TECHNOLOGY AND LOW MAINTENANCE



100% DUTY CYCLE CONTINUOUS OPERATION



SUCTION

The innovative single unit, semi-wet suction system with integrated air-water separation

Cost reduction effect:

The optimal integration of the semi-wet suction unit and the air-water separation enables cost savings regarding installation, operation and maintenance.

Powerful and reliable:

EXCOM hybrid 1s convinces with high suction power at the cannula and therefore is an absolutely reliable system for each practice.

Maximum safety while operating:

The dynamic separation of the EXCOM hybrid 1s guarantees maximum functionality. This ensures an absolutely trouble free operation and therefore also a substantial stress reduction for the user and the team.

User-friendly maintenance and easy servicing: Provided by the compact modular building method of the EXCOM hybrid 1s.

Eco-friendly:

Thanks to the semi-wet suction system, no precious and expensive fresh water is wasted.

Technical data

- Main voltage 230 V AC
- Frequency 50/60 Hz
- Max. current consumption 3.3/4.1 A
- Max. electrical shaft power 0.75/0.9 kW
- Max. ambient temperature 40°C
- Air Flow Rate 1.100 l/min
- Negative pressure regulated 120 mbar
- Operating time 100%
- Weight 15 kg
- Noise level 63 dB(A)
- Dimensions (HxWxD) 530x320x350 mm





Girardelli Developing Machines

GIRARDELLI X-3D



The GIRARDELLI X-3D immersion x-ray processor with integrated daylight attachment fulfils all present requirements of a modern and efficient developing automat:

Integrated daylight attachment Processing under daylight conditions. A darkroom is not necessary.

Auto-activator

When pressing the start button, the transport shaft and the dryer-blower are now operative. A the end of the development process, the appliance will be switched off by pressing the start button again.

Electronical bath heating

The electronically regulated bath heating guarantees a steady temperature at all times. This way an optimal picture quality and life span of the GIRARDELLI developing concentrate (up to 12 weeks per batch) is achieved.

Automatic film drying

Very powerful dryer-blower for fast and efficient film drying.



GIRARDELLI X - 1





The GIRARDELLI X-1 table darkroom meets all today's requirements of an efficient hand-developed device.

Technical data

Dimensions:

46 x 32 x 30 cm (W x D x H)

Contents of the cups:

4 x 0.225 litres

Weight: approx. 2.3 kg

Standard equipment:

detachable red light lens, 3 film holders for single films, 4 x 0.225 litre plastic cups with screw lid closure

- Each part used is extremely stable and chemically resistant
- Minimal service costs over many years Ideal cup size
- Allows the development of intraoral film sizes
 Even occlusal films can be developed
 Minimal maintenance
- Only short cleaning of the cups necessary when changing the used GIRARDELLI powder development concentrate.
- · Simplest operation
- The film holders can be loaded and the films can be developed via the manual interventions.
- · Slanted top allows for excellent visibility

GIRARDELLI DA-1

The purpose of the GIRARDELLI DA-1 disinfection automat is the hygienic and surgical hand disinfection in the entire medical- and food-industry.

Efficient and sparing.



Dental Accessories

CURING LIGHT



Basic Curing Light - built in - Curing light LED

- Three working modes: Full, Ramping, Pulse
- Curing light from 10 seconds up to 50 seconds
- Autoclavable Optic Fiber
- Light protector
- Led Source 3 watts
- Wave lenght power over $1000 mW/cm^2$





SCALER



Ritter Scaler Kolibri - built in or stand alone

- Detachable handpiece
- PC control
- Automatic frequency tracking
- Output power: 3W-20W
- Output tip vibration frequency: 28kHz+/-3kHz
- Scaler tips available



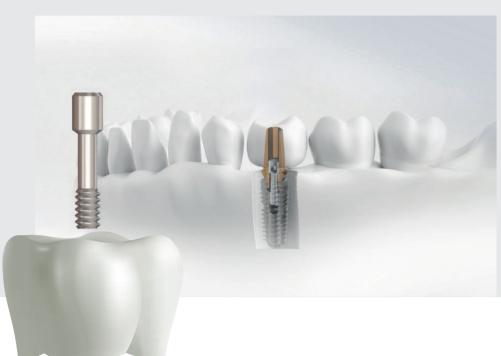




Scaler Tips

scaling, periodontics, and endodontics
Ritter offers a wide range of scaler tips for most of scaler systems, as Satelec/
EMS for a very resonable price.

Dental Implant System Q S I / S B L A





Implants - Made in Germany

- 1. A predictable experience
- 2. 3-in-one initial drill
- 3. Built-in stoppers
- 4. Grade 5 Titanium
- 5. Tapered & self taping Implants
- 6. SB/LA surface treatment
- 7. Length specific drills
- 8. Platform-shifted abutments
- 9. Streamlined surgical site preparation
- 10. Reduced osteotomy prep time
- 11. Tissue margin ring on final drills
- 12. Wide range of prosthetics
- 13. Narrow Line platform 2.9mm fit 3.0, 3.3 (mm) implants
- 14. Standard Line platform 3.75mm fit 3.75, 4.2, 5.0 & 6.0 (mm) implants





Surgical Kits

Ritters Surgical Kits are very clearly arranged and self explanatory - very easy to use. Available as **Advance Kit** (6 straight drills with stopper sleeves) or beginners **Professional Kit** (complete sequence of conical drills incl. stopper function).

Wide range of prosthetic components

The Ritter Implant System offers a wide range of prosthetic components. This includes the Platform Shifting feature for many abutments to assist a perfect soft tissue management.



Analogue and digital Impression Transfer



Angled Abutments from 15° up to 25°



Healing Caps



Straight Abutments







Casting and restoration Abutments Gold / Peek / Zirconia













WORLDWIDE



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