



# **Quality. Aesthetics. Precision.**

## **PRODUCT CATALOG 2024**

# Ritter Concept GmbH

## Innovation from tradition

In 1889, Frank Ritter succeeded in developing and manufacturing a completely new type of two-telescope treatment chair for dentists. Ritter achieved its worldwide breakthrough in 1917 with a black barber's chair that combined all individual mechanical and electrical devices and instruments into a "compact workstation". To this day, the precision-manufactured dental units of the Ritter brand stand for the highest quality, functionality and top design. They serve any desired practice concept, can be conveniently combined with other instruments and dental equipment, and ensure excellent patient care and an efficient workflow. Anyone who would like to experience the innovative power that has lasted for decades and immerse themselves in the fascinating world of Ritter products is cordially invited to our showroom in Biberach.

### OUR PRODUCTION

The design of Ritter dental units is geared towards pure practical use and maximum efficiency and ensures outstanding functionality. In addition, the products are compatible with instruments and dental equipment of other brands.

The production facility is located in Biberach an der Riß, Germany. Ritter currently produces approx. 4,500 treatment units per year and is the exclusive supplier to the public health systems, clinics and universities in many countries.

### SPARE PARTS SERVICE

To ensure that every treatment can be carried out professionally, we not only provide you with our high-quality equipment, but also with the spare parts matched to the Ritter dental units.

Our extensive range of special equipment and accessories enables us to react flexibly to customer requirements and to supply spare parts worldwide, even on a long-term basis.

### TECHNICIANS AND TRAININGS

Reliability is our top priority. Through regular training, we ensure that our partners are always up to date. This results in less downtime, more functional reliability, as well as more safety for your treatment team and your patients.

### Quality. Aesthetics. Precision.

Made in Germany

### Professional elegance

Handcrafted from pure metal and polyester

### Easy handling

Innovative instrument control with graphic display

### Large selection

Numerous user settings and memory functions

### Independent programming

Chair positions, speed and rpm of motors, turbines and intensity of the scaler

### Collaborative work

Up to four different user levels can be set simultaneously

### Comfortable operation

Thoughtful foot control of all main functions

### Hygienic cleaning

Very easy to clean smooth surfaces

### Unrestricted knee and leg room

Doctor and patient benefit from ergonomic functions and shapes

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# Ritter Contact Series

Professional elegance

## Contact World

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### QUALITY – MADE IN GERMANY

The housing of the Ritter Contact series is mainly made of metal and painted throughout. Installation, service and maintenance are extremely simple thanks to easy access and clearly arranged components. With clarity and elegance, a perfect blend of utility, function and aesthetics has been created, making the Contact series one of the most beautiful dental units on the market world-wide.

### DIMENSIONS

The Ritter Contact series has the perfect dimensions in all versions - even for smaller practice rooms. With an operating radius of approx. 2x3 m, the units adapt perfectly to any working environment. The work lights are mounted on the unit or alternatively available as a ceiling version.

Note: A total of 2 connection points (1 standard/1 alternative) provide additional flexibility so that the unit can be accommodated in any treatment room.

### FUNCTIONAL ALL ROUND

- Innovative instrument control with graphic display, numerous user settings and memory functions.
- Simple, intuitive programming of chair positions, presets such as:
  - Speed of motors, turbines and intensity of scaler
  - Storage of up to 4 different user levels, e.g. for 4 operators
- Sophisticated 4-pedal foot control with control of all main functions for quick and easy operation
- Hygienic and very easy to clean smooth surfaces save time and effort
- Large knee and leg room for operators allow ergonomic and fatigue-free operation

# Ritter Contact Series

Professional elegance

## Contact Lite Comfort

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### SEATING COMFORT IN A LEAGUE OF EXCELLENCE

The Ritter Contact series meets all requirements for optimized patient positioning during treatment. The anatomically shaped and tilt-adjustable seat allows for back-friendly sitting and lying.

- Simultaneous movement (Trendelenburg): the footrest of the Ritter patient chair rises synchronously with the backrest inclination.
- Optimal, safe and comfortable positioning even in difficult treatment situations. The patient does not have to slide during the transition to the lying position and thus does not interfere with the treatment process.

- Compact, space-saving design
- Seamless, easy-to-disinfect upholstered surfaces
- Flexible control via foot pedal and function display
- Chair height:
  - Contact World: 35-85 cm
  - Contact Lite Comfort: 46-82 cm
- Optional: right armrest can be folded forwards

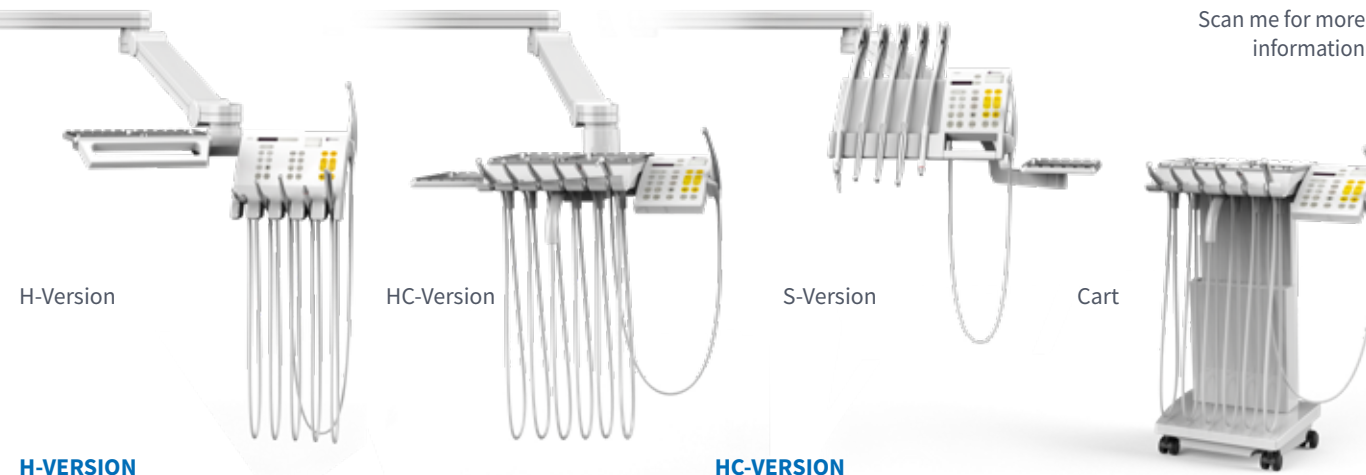
The patient chair of the Contact World series is also available with ViscoSoft padding, which adapts individually to the shape of the body.

# Ritter Contact Series

## Dentist element



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### H-VERSION HANGING HOSES

In the H-version, the dentist element on the floating arm is equipped with hanging tubes and a large tray support, which can be placed right above the patient. The dentist element can be moved very close to the patient and allows optimal handling with a small working circle of the five instruments.

### S-VERSION SWINGING HOSES

Each instrument can be easily and ergonomically removed and returned without effort. The proven swing-arm system minimizes contamination, as the tubes have no contact with the floor and thus slide cleanly into their resting positions.

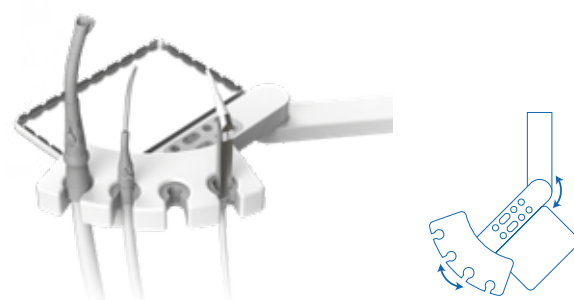
### HC-VERSION HANGING HOSES WITH CART HEAD

The HC-version's cartridge tray is more conventionally designed than the H-version's, with the tray directly above the instruments. The cart head can hold up to six instruments in any order, controlled by the foot pedal, and a camera on the side.

### THE RITTER CART STANDALONE GUARANTEES FLEXIBILITY AND VERSATILITY

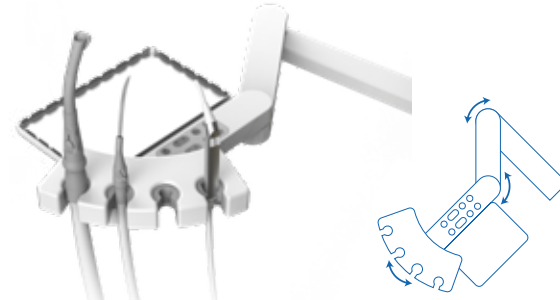
The supply hose of the integrated connection box can be selected individually in various lengths to suit any practice situation. The hygiene system using bottle solution ensures effective hygiene and disinfection. Due to the independent water supply, the Ritter Cart standalone is DVGW-compliant. Suitable for all treatment units and independent of the manufacturer of the patient chair. Plug & Play – due to the integrated connection box, only connections for the compressed air and power supply are required.

## Assistant element



### INSTRUMENT ARM TWO-PARTED WITH PANEL

The 2-part instrument arm of the assistant element allows flexible positioning in any patient position and treatment situation. All main functions of the treatment unit can be controlled with the membrane keypad integrated flush with the surface of the articulated arm. The sophisticated and neat suspension effectively prevents the tubes from twisting.



### INSTRUMENT ARM THREE-PARTED WITH PANEL

The 3 freely swiveling joints are space-saving and flexible in positioning, providing the possibility to work comfortably alone with the patient. Here, too, all main functions of the treatment center can be controlled with the membrane keypad integrated into the surface of the articulated arm.

# Ritter Contact Series

## Water unit

The water unit of the Ritter Contact series is designed for fast and effective cleaning. All critical areas and components are easy to reach and disinfect. The surfaces are smooth, without corners and edges and can be removed with a flick of the wrist.

### DETACHABLE AND THERMODISINFECTABLE CUSPIDOR

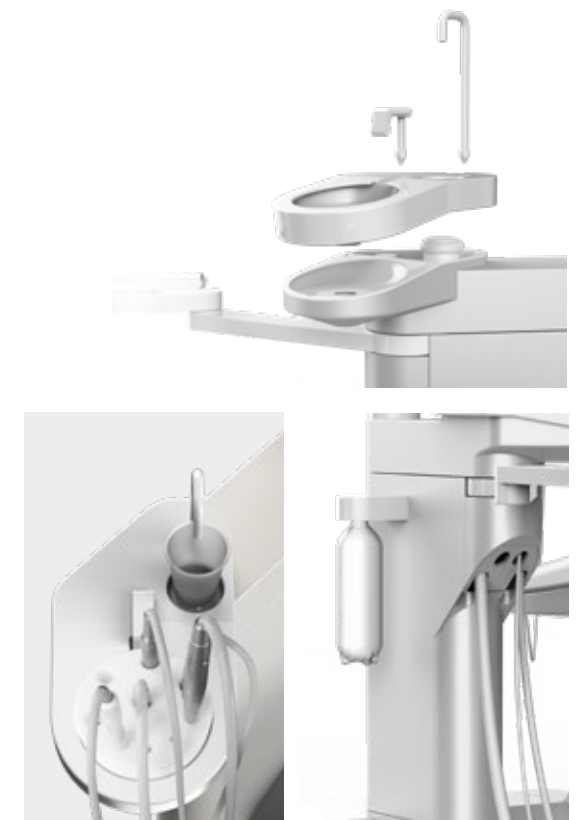
The ceramic cuspidor is removable, so contaminated components can be quickly removed and disinfected. The cuspidor is optionally available in a swiveling version.

### INSTRUMENT CLEANING SUPPORT

The rinsing instrument cleaning support enables hygienically perfect disinfection in a simple manner. The support is placed on the cuspidor.

### AQUA BOTTLE SYSTEM / WEK

With the bottle solution, all internal water lines to the patient are completely disinfected. The WEK automatic internal disinfection system is available as an additional option. Both solutions are DVGW compliant.



## Control Options



### FOOT CONTROLLER

- Easy and comfortable operation
- Stable stand
- Transmission-safe operation due to the wired connection
- Individual control of the functions
- Perfect weight balance when shifting with the tip of the foot
- Material: metal and plastic

No multiple key assignment: the Ritter control system provides a dedicated key for each function. The result is simple, intuitive control and operation of the functions. This direct and simple handling is particularly noticeable during demanding treatments.



### MULTIFUNCTION DISPLAY & INTRAORAL CAMERA

The clear and concise multifunction display allows easy chair and instrument control. The graphic display shows the status of the respective instruments. Speed, torque of turbines and motors, treatment positions of the patient chair as well as presets of up to four different users can be freely programmed.

Precise images with Easy Touch. The optional optical system of the SOPRO 617 camera is equipped with an aspherical lens that minimizes distortion and produces geometrically correct images. Thanks to the large angle of view, even hard-to-reach regions of the mouth are perfectly displayed. With the touch-sensitive button, you create snapshots without moving the handpiece. So you can always rely on sharp images. These can be displayed via an external screen.



# Ritter Contact Series

## Stools

### GIRA-FLEX Series

An ergonomic and comfortable posture is a basic requirement in everyday practice. Due to the high comfort of the GIRA-FLEX series and the quick infinitely variable adjustment of the seat position, the work stool can be individually adapted to your personal treatment style. The base is made of aluminum and is optionally available with a plastic base in the Smart version.

#### GIRA-FLEX D & D-PLUS

- Longitudinal axis of the saddle seat can be tilted by 5°
- High quality synthetic leather upholstery
- Soft construction of the substructure
- Made in Germany
- Long service life
- „PLUS“: Infinitely height-adjustable backrest



#### GIRA-FLEX D SMART & D-PLUS SMART

- Height min. and max.: 550–720 mm  
550–740 mm
- Angle of the backrest: 0–24°
- Tilt of the plate: 2–14°
- Maximum load: 130 kg



#### GIRA-FLEX A & A-PLUS

- Round seat cushion with even weight distribution
- High-quality synthetic leather upholstery
- Seat core made of PUR foam
- Made in Germany
- Long service life
- „PLUS“: Infinitely height-adjustable backrest



#### GIRA-FLEX A SMART & A-PLUS SMART

- Height min. and max.: 530–720 mm
- Maximum load: 120 kg



### MobiloRest D156 & D158

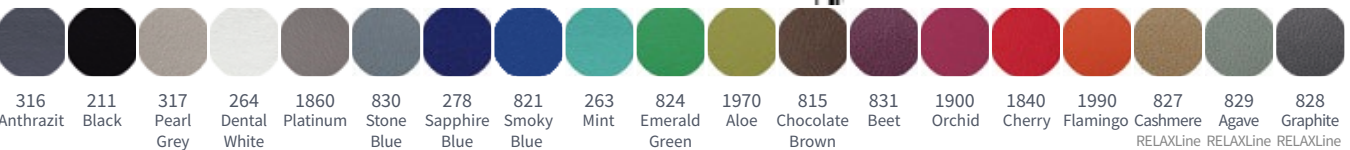
- High quality synthetic leather
- Made in Germany
- For highest ergonomic demands
- Very high quality metal components
- Intelligent easy height adjustment by gentle foot pressure
- High quality double castors
- Optional for left-handers 156L
- Asymmetrical backrest with armrest function in MobiloRest 156L

#### TECHNICAL DATA

Chair surface material: (PE), base plate (plywood)	foam (PP-E), leatherette
Highest seat cushion:	490 mm
Lowest seat cushion:	700 mm
Maximum load:	135 kg



### Upholstery colors



\* Upholstery color range is not complete \* Upholstery color range is subject to change without notice

# Accessories for Ritter Contact Series

## Operating lights

#### EVA LED WITH SWITCH



EVA provides perfect light that creates an ideal balance between color and depth when seeing. It allows you to distinguish the smallest details in tissue, marginal areas and surfaces in an elliptical circle of light specifically designed for the oral cavity. The lamp head can be rotated 360° and the handles are removable and sterilizable.

#### MAIA LED WITH SENSOR



\* See page 18 for more details

## Scaler

### ACTEON scaler SP NEWTRON



#### DENTAL ULTRASONIC SCALER LED HANDPIECE

The autoclavable LED handpiece with a light source of 100,000 lux guarantees perfect visibility of the surgical area and is ideal when working with the loupe. Cold light is used for better differentiation of soft tissue types. Thanks to the innovative air supply, the filtered air is fed directly to the tip at low pressure – for thorough cleaning of the root canals.

Scan me for more information



### EMS scaler PIEZON® NO PAIN LED



#### BUILT-IN ULTRASONIC SCALER FOR SCALING AND ROOT CANAL TREATMENT

With the EMS scaler PIEZON® NO PAIN LED, you work with unique ultrasound quality with unrivaled ease of use. The ergonomic design contributes decisively to the advanced features of the PIEZON® handpiece and enables a natural hand position. The low weight and narrow tip give the device high flexibility and excellent access even to hard-to-reach areas. All handpieces are equipped with an integrated 5000 Kelvin LED that produces natural daylight. All PIEZON® instruments are also made of highly polished special surgical stainless steel.

# Accessories for Ritter Contact Series

## Dental micromotors

### SLM-E Type 810 LED



#### SMALL, LIGHT AND STRONG

The SLM-E Type 810 LED with a length of 31,7 mm and a weight of only 62 g is the one of the smallest dental motors in the world. Its clear weight advantage enables relaxed and fatigue-free work. The finger muscles remain relaxed and efficient. Thanks to the integrated LED technology, the illumination, which is similar to daylight, is clearer and has a higher contrast compared to conventional high-pressure lamps.

## Curing Light

### Ritter Curing Light LED



#### RITTER CURING LIGHT

- Three working modes: Full, Ramping, Pulse
- Curing light from 10 seconds up to 50 seconds
- Autoclavable fiber optics
- Light protection device
- Led source 3 Watt
- Wavelength power over 1000mW/cm2

## Functional syringes

### TopFlex and TopJet



#### MULTI-FUNCTION SYRINGE 3F OR 6F

The TopFlex (3F) and TopJet (6F) switch water, air or spray manually. By pressing the corresponding keys, either air or water can be dispensed for as long as the key is pressed. If both keys are pressed simultaneously, spray is dispensed.

Also available as 6F version with warm water.

## Functional syringes

### Luzzani Minilight



#### MULTI-FUNCTION SYRINGE 3F OR 6F

Minilight is extremely lightweight but offers significant advantages. Not only can the dentist remove the tip and sleeve for complete sterilization in an autoclave at 134 °C, but the syringe can also be equipped with straight or angled sleeves to adapt the instrument to specific surgical needs. It does not require any electronic control units, but is simply connected to the treatment unit.

# Ritter Contact Series

## Features and Options

	CONTACT WORLD	CONTACT LITE COMFORT
<b>PATIENT CHAIR</b>		
Trendelenburg movement	●	●
Positions memory	●	●
Safety switch	●	●
Single-joint headrest with long head cushion	●	○
Double-jointed headrest	○	●
Fixed left armrest	●	●
Folding forward right armrest	○	○
Seamless upholstery	●	●
ViscoSoft upholstery set similar to Tempur®	○	-
Foot control pedal for chair- and instrument functions	●	●
Pilot foot switch (Joystick)	○	-
<b>DENTIST ELEMENT</b>		
3-function syringe Luzzani Minilight	●	●
3-function syringe TopFlex	○	○
6-function syringe TopJet	○	○
6-function syringe Luzzani Minilight	○	○
1. Turbine device with light	○	○
1. Micromotor SLM-E type 810 LED	●	●
2. Micromotor SLM-E type 810 LED	○	○
ACTEON ZEG SP NEWTRON	○	○
EMS ZEG PIEZON NO PAIN LED	○	○
ZEG Ritter S or E LED	●	●
Graphic display	●	●
4 user levels	●	●
Spray water heating for drilling instruments	○	○
Small X-ray film monitor	●	●
Silicone pad without trays <sup>*1</sup>	●	●
Double tray rack for 2 trays (rotatable) <sup>*2</sup>	○	○
Double tray rack for 2 trays (rotatable), 10 cm deep <sup>*2</sup>	○	○
Additional single tray holder on the upright <sup>*3</sup>	○	○
Additional single tray holder on the dentist element <sup>*4</sup>	○	○

<sup>\*1</sup> for H-, HC- & C-version, <sup>\*2</sup> for S-version without stainless steel tray, <sup>\*3</sup> for H-, S- & HC-version without stainless steel tray, <sup>\*4</sup> for H-version without stainless steel tray, <sup>\*5</sup> without stainless steel tray

● Standard ○ Option - Not available

	CONTACT WORLD	CONTACT LITE COMFORT
<b>ASSISTANT ELEMENT</b>		
3-function syringe Luzzani Minilight	○	○
3-function syringe TopFlex	○	○
6-function syringe TopJet	○	○
6-function syringe Luzzani Minilight	○	○
Small and large suction hoses	●	●
Pneumatic selective depositing system	●	●
2-piece assistant arm with control panel	●	●
3-part assistant arm with control panel	○	○
Additional single tray holder on the assistant element <sup>*5</sup>	○	○
<b>WATER UNIT</b>		
Detachable and thermoisinfect-able cuspidor	●	●
Swiveling cuspidor	○	○
Instrument cleaning cap	●	●
Cuspidor valve (MSBV)	●	●
CAS 1 Combi-Separator Dürr	○	○
CS 1 Combi-Sepamatic Dürr	○	○
MST 1 amalgam separator	○	○
WEK (DVGW line/sterilization)	○	○
Aqua-Bottle-System (ABS)	●	●
Water heating for rinsing glass filling	○	○
External device connection	○	○
<b>SMALL X-RAY DEVICE</b>		
Leadex70 DC	○	○
<b>OPERATING LIGHT</b>		
EVA LED with switch / sensor (check website for details)	○	○
Maia LED with sensor	●	●
<b>STOOLS</b>		
Mobilorest D156/156L/D158	○	○
Gira-Flex A, A-PLUS	○	-
Gira-Flex D, D-PLUS	○	-
Foot ring for GIRA-FLEX A, A-Plus	○	-
<b>MULTIMEDIA</b>		
Intraoral camera SOPRO 617	○	○
Monitor TFT 22" Neovo	○	○

# Ultimate Comfort Series

A smart practical solution

## Ultimate Comfort Smart Pneumatic



### COMFORT AND QUALITY

The Ultimate Comfort series is extremely ergonomic and efficient for daily use. All dental units are infinitely height-adjustable and very well suited for small practice rooms. The water unit has a self-contained clean water system. The multifunctional foot control with pedal or slider control is easy to operate and supports an excellent work flow. Pneumatically operated system.

- 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 synthetic leather upholstery
- 4 programmable chair positions, plus last position and exit position
- Safety switch
- Double-jointed headrest

# Ultimate Comfort Series

A smart practical solution

## Ultimate Comfort Smart



### MEMORY SYSTEM

- All Ultimate Comfort Smart have a memory system of:
- Spittoon position
  - Last position
  - Light on/off
  - Instrument water on/off
  - A/B/Exit/Emergency positions



# Ultimate Comfort Series

A smart practical solution

## Ultimate Comfort



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### ULTIMATE COMFORT – THE CLEVER RIGHT/LEFT TREATMENT UNIT

- The swiveling unit can be very easily converted from right-handed to left-handed operation
- The 30° rotation of the chair ensures easy access for the patient
- Both armrests are movable

### COMFORT AND QUALITY

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.

## Ultimate Comfort Series

### Dentist element

Easy to use and efficient treatments: two different versions are available depending on personal preference, allowing easy adjustment of the instruments.



#### H-VERSION HANGING HOSES

- Tray support is available in standard version (see the picture above) and with a lower tray
- Pneumatic arm brake
- Up to 5 instrument holders with optical sensors
- Available in electric / pneumatic version



#### S-VERSION SWINGING HOSES

- Tray support is available in standard version (see the picture above) and with a lower tray
- Pneumatic arm brake
- Up to 5 instruments
- Available in electric / pneumatic version



#### CONTROL PANEL

- Control panel with X-ray viewer
- 5 programmable chair positions including rinsing position, exit position and emergency position
- Removable silicone base for easy cleaning and disinfection (S-version)

### Assistant element



#### FLEXIBILITY FOR MAXIMUM EFFICIENCY

- Integrated control panel
- Up to 4 instruments
- Small and large suction hoses
- 3F syringe
- Curing light
- Double jointed and adjustable arm movement
- Available in electric / pneumatic version



#### MICROMOTORS MCX LED & MX2

#### OPTIMA<sup>INT</sup> WITH MIKROMOTOR MCX LED OR MX2 (ENDO)

#### IOPTIMA<sup>INT</sup> WITH MICROMOTOR MX2 (ENDO)

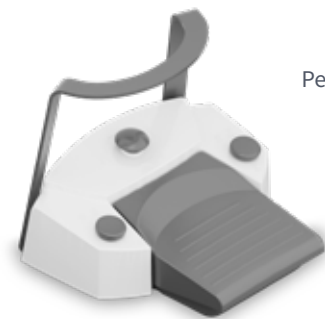
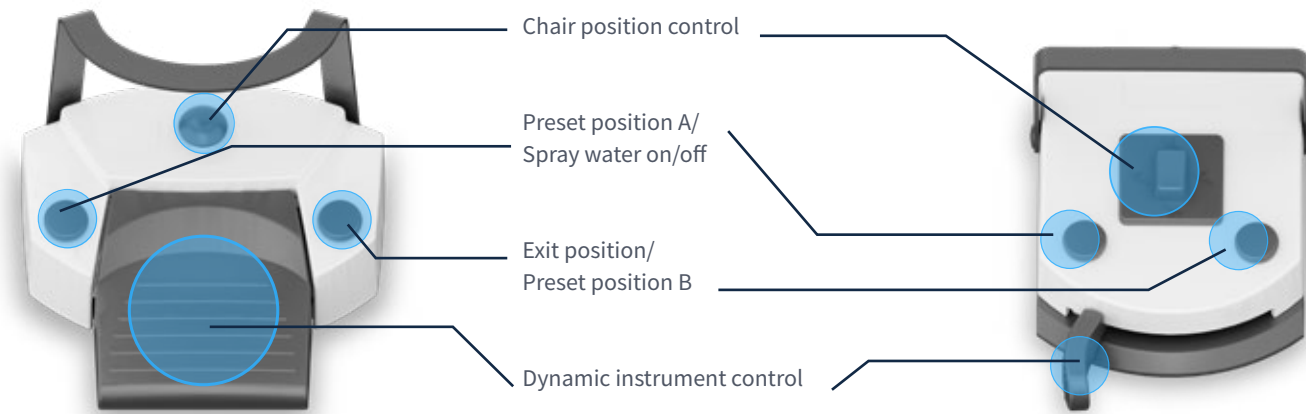
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# Ultimate Comfort Series

## Foot controller



### MODERN DESIGN FOR CHAIR MOVEMENT AND INSTRUMENTS

- Large handle for easy repositioning
- Manual control of chair movements

### PROGRAM CONTROL OF CHAIR MOVEMENTS

- Rinsing position/last treatment position
- Programmable chair position: A, B, Emergency
- Entry/exit position

### CONTROL OF THE INSTRUMENTS

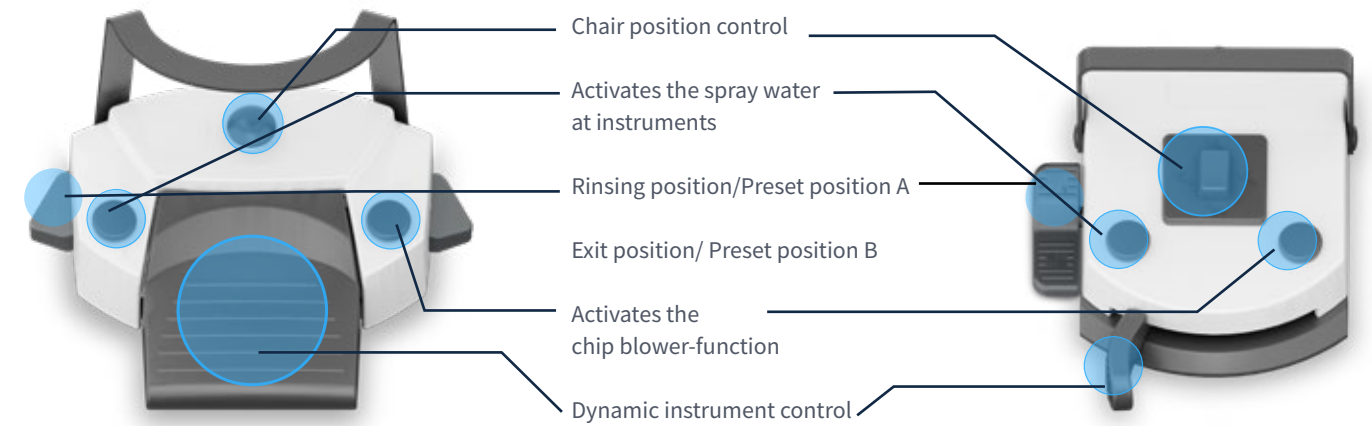
- Speed/power control for the active instrument
- Individual spray water on/off mode for each instrument line

### BUTTONS

- Spray water for instruments
- Chip blower function

# Ultimate Comfort Series

## Foot controller pneumatic version



### MODERN DESIGN FOR CHAIR MOVEMENT AND INSTRUMENTS

- Large foot handle for easy repositioning
- Manual control of chair movements

### PROGRAM CONTROL OF CHAIR MOVEMENTS

- Spitting position/last treatment position
- Programmable chair position: A, B, Emergency
- Entry/exit position

### CONTROL OF THE INSTRUMENTS

- Speed/power control for the active instrument
- Spray water on/off mode for instruments

### BUTTONS

- Spray water at instrument
- Chip blower function

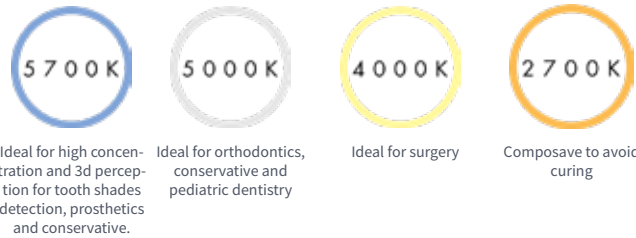
# Ultimate Comfort Series

## Operating lights

### EVA LED with switch / sensor

EVA provides perfect light that creates an ideal balance between color and depth when seeing. It allows you to distinguish the smallest details in tissue, marginal areas and surfaces in an elliptical circle of light specifically designed for the oral cavity. The lamp head can be rotated 360° and the handles are removable and sterilizable.

- Illuminance: 50.000 Lux
- Color temperatures: 5.700, 5.000, 4.000 or 2.700 Kelvin
- CRI >95, for improved color and light perception
- The light field is 19x10 cm at 70 cm distance
- Optional protective cover with patient mirror
- Control lamp – visual feedback of illumination strength and color temperature



### Maia LED with sensor

- Illuminance: 3.000-45.000 Lux
- Constant color temperature of 5.000 Kelvin
- Shadow-free illumination
- Removable, sterilizable handles
- Constant color intensity



### V2 LED Operating Lamp

- Illuminance: 8.000 to 30.000 Lux
- Yellow filter
- Sensor switch - light on/off by hand movement
- Low heat emission
- Precise illumination of the working area

# Ultimate Comfort Series

## Stools

### MobiloFlex 60



#### MOBILOFLEX 60

- Backrest with fixed position or dynamic movement
- Ergonomic and comfortable seat
- Symmetrical backrest
- Gas lift cylinder
- Chrome-plated base
- Five double castors for stability
- Color coordinated upholstery
- Available with or without foot ring

#### TECHNICAL DATA

Chair surface material:	synthetic leather, build-in high rebound sponge, plastic plate
Cushion size:	445x415 mm
Backrest size:	330x420 mm
Seat lever adjustment:	450-570 mm
Chair foot material:	Zinc alloy die casting
Feet diameter:	560 mm
Highest seat cushion:	630 mm
Lowest seat cushion:	510 mm
Weight:	9 kg

## Upholstery colors for chairs and stools

### Ultimate Comfort Smart E and P



## Ultimate Comfort Upholstery Colors





# Ultimate Comfort Series

## Scaler

### Scaler Ritter E and S LED

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#### ULTRASONIC SCALER FOR SCALING AND ROOT CANAL TREATMENT

- Removable handpiece
- Automatic frequency tracking
- Includes 6 tips, 4 endo tips, torque and endo key, installation kit and LED lamp

## Curing Light

### Ritter ProCure Curing Light LED

Scan me for more information



#### RITTER CURING LIGHT

- Three working modes: Full, Ramping, Pulse
- Curing light from 10 seconds up to 50 seconds
- Autoclavable fiber optics
- Light protection device
- Led source 3 Watt
- Wavelength power over 1000mW/cm²

## Scaler

### ACTEON scaler SP NEWTRON



#### DENTAL ULTRASONIC SCALER LED HANDPIECE

The autoclavable LED handpiece with a light source of 100,000 lux guarantees perfect visibility of the surgical area and is ideal when working with the loupe. Cold light is used for better differentiation of soft tissue types. Thanks to the innovative air supply, the filtered air is fed directly to the tip at low pressure – for thorough cleaning of the root canals.

## Functional syringes

### Luzzani Minilight



#### MULTI-FUNCTION SYRINGE 3F

Minilight is extremely lightweight but offers significant advantages. Not only can the dentist remove the tip and sleeve for complete sterilization in an autoclave at 134 °C, but the syringe can also be equipped with straight or angled sleeves to adapt the instrument to specific surgical needs. It does not require any electronic control units, but is simply connected to the treatment unit.

# Ultimate Comfort Series

## Ultimate Comfort Features and Options

● Standard    ○ Option    – Not available

	ULTIMATE COMFORT	ULTIMATE COMFORT SMART	ULTIMATE COMFORT SMART P
PATIENT CHAIR			
Synchronized	●	●	–
Left/right handed version, 30° chair movement	●	–	–
Right armrest movable	●	●	●
Left & right armrest movable	●	○	○
Double-jointed headrest	●	●	●
Multifunctional foot controller pedal type	●	●	●
DENTIST ELEMENT			
X-ray viewer	●	●	●
3 outlets without light (Midwest)	●	●	●
1x 3F syringe	●	●	●
Double tray support	●	●	●
ASSISTANT ELEMENT			
Adjustable assistant arm	●	●	●
Control panel	●	●	●
1x 3F syringe	●	●	●
Small and large suction hoses	●	●	●
WATER UNIT			
Chair-mounted	●	●	●
Venturi System (air/water)	●	●	●
Moveable cuspidor	●	●	●
Heating for cupfiller	●	●	●
Ceramic spittoon with automatic cupfiller and bowl rinse	●	●	●
Water bottle system	●	●	●
Extrenal wet suction	○	○	○
External dry suction with CS1	○	○	○
Spitton valve for wet suction	○	○	○
Automatic air-water inlet group	○	○	–
OPERATING LIGHT			
LED dental light MAIA with sensor	○	○	○
LED dental light Ritter standard	○	○	○
EVA LED with switch	○	○	○
STOOL			
Dentist stool MobiloFlex 60	○	○	○

# Sterilization

## Ritter Autoclaves Class B

The Ritter „CleanTec“ series is the efficient method, providing fast sterilization and drying time for your instruments. CleanTec autoclaves work with a fractionated pre- and post vacuum.

The deep vacuum is created by a high performance double stage vacuum pump. The deep post-vacuum ensures optimal drying of wrapped materials and large quantities of porous goods. CleanTec stand-alone autoclaves dispose of a built-in water storage tank. They fully correspond to the requirements of “Class B”-autoclaves.

### STERILIZABLE PRODUCTS

- Solid instruments
- Hollow instruments
- Wrapped instruments
- Cotton fabrics



## CLEAN-TEC CB23

The CleanTec CB23 can optionally be connected to the tap water system and the drain. It includes an internal printer for documentation. Chamber size 23 liters.

Ritter CleanTec CB23 provides additional programme cycles: 135° prions; clean process. The LCD Display is available in multiple languages. Also it offers a password protection.

### TECHNICAL DATA

Overall dimensions (l x h x d):	505x400x650 mm
Weight (with empty tanks):	50 kg
Weight (with full tanks):	55 kg
Colour:	RAL 9002
Material:	SUS304 Steel FeP01 Steel (Cover)
Noise level at 1 m distance:	54 dB(A)
Noise level in front of the display:	63 dB(A)
<b>Electrical specifications</b>	
Rated voltage:	230 V ~ 50/60 Hz
Rated input:	1950 W
Supply cable:	(L 1,5 m) 2+1 x 1,5 mm <sup>2</sup>
Fuse:	10A Air Switch
Insulation:	Class I
<b>Chamber specifications</b>	
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
Material:	Stainless steel SUS 304
Dimensions: Ø x P	250x450 mm
<b>Clean water tank + dirty water tank specifications</b>	
Max. capacity:	4,5 L
Cycles per tankful:	~4
(before the min. level indicator lights up)	
Material:	Stainless steel
<b>Bacterial filter data</b>	
maximum diameter:	56 mm
max. allowed filtering capacity:	0,2 µm
No. of cycles before replacement:	~150



Scan me for more information



## CLEAN-TEC AB80

The CleanTec AB80 is the unique frontloader tabletop device with 80 liters capacity!

The Ritter CleanTec pulse vacuum autoclave AB80 is a big-sized automatic high pressure and temperature autoclave, which uses pressure steam as medium. It is suitable for sterilizing articles like dressings, utensils, Class N and B cavum equipment, medical catheters that are used for surgical purposes.

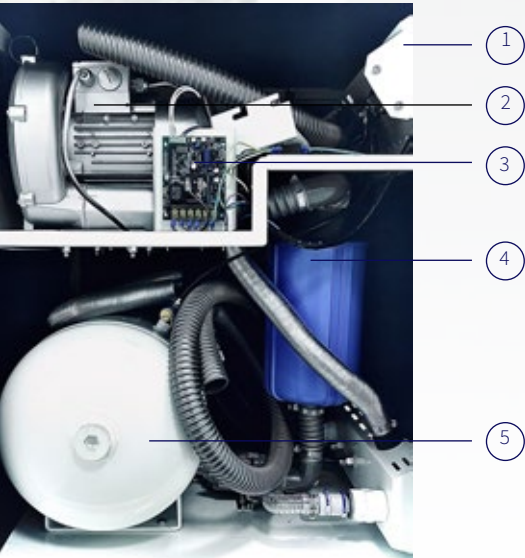
### TECHNICAL DATA

Overall dimensions (l x h x d):	1001x730x560 mm
Noise level:	<50 dB(A)
<b>Electrical specifications</b>	
Rated voltage (see name plate):	220 V ~ 50/60Hz ±10% 230 V ~ 50/60Hz ±10%
Rated input:	7000 W
Max. Current:	32 A
Protection against electric shock:	B (IEC EN 60601-1)
Protection class:	I (IEC EN 60601-1)
Fuse in device installation:	10 A (can be replaced) 1,6 A (can not be replaced) 5 A (can not be replaced)
Power supply cable diameter:	≥6 mm <sup>2</sup>
<b>Chamber specifications</b>	
Designed pressure:	0,30 MPa
Working pressure (max):	0,23 MPa
Hydro pneumatic pressure:	0,38 MPa
Design temperature:	144°C
Material:	Stainless steel SUS 316L
Dimensions: Ø x P	385x717 mm
<b>Water specifications</b>	
Electrical conductivity:	≤15 µS/cm
Bleach concentration:	≤2 mg/l
PH value:	5-7
Hardness:	≤0,02 mmol/l
<b>Bacterial filter data</b>	
max. allowed filtering capacity:	0,22 µm

# Suction and Power System

## RACT 2 in 1

Combines an air compressor and a suction unit, integrating two different devices, wich can provide both vacuum suction and air supply function. Option to connect to external suction. The Power System is suitable to serve one Dental Unit.



- 1 Power control
- 2 Vacuum pump
- 3 Circuit board
- 4 Separation barrel
- 5 Compressor tank



### FEATURES POWER SYSTEM RACT-SC7/1 (CLASS 1)

Power:	1.1 KW
Noise:	≤60 dB(A)
Dimension(l x w x h):	690 x 620 x 1020 mm
Net weight:	81 Kg
Gross weight:	100,2 kg
Use:	For single unit

### COMPRESSOR INSIDE (WITHOUT DRYER)

Power Supply:	100-240V AC
Frequency:	50/60 Hz
Input power:	750 VA
Fuse:	5 A
Dimension(l x w x h):	272*138*215 mm
Pressure:	0.8 MPa
Tank capacity:	25,5 l
Max airflow:	152 l/min
Airflow@7Bar:	65 l/min
Net weight:	11,5 kg
Noise:	50 dB(A)

### SUCTION INSIDE

Power supply:	230 V AC
Frequency:	50/60 Hz
Input power:	370 VA/450 VA
Max Currency:	2.7 A/3 A
Dimension(l x w x h):	256 x 246 x 247 mm
Negative Pressure:	≥-12 kPa
Max Airflow:	1333 l/min
Net weight:	11 kg
Noise:	60 dB(A)



# Suction

## EXCOM hybrid

Suction systems are part of the basic equipment of every dental practice. Without them, everyday work would not be possible. Solutions meet the highest demands and the stringent requirements that suction systems have to fulfill. A uniformly strong suction rate can be guaranteed even during continuous use and high material strain.

### CENTRIFUGAL SEPARATION ROTOR

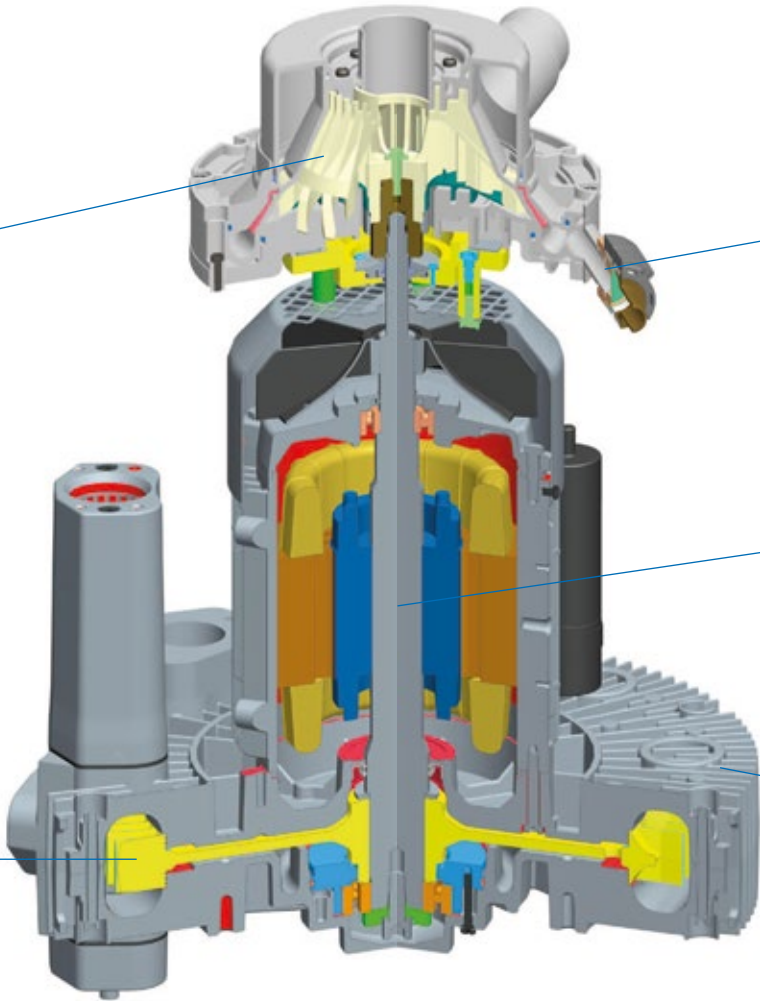
Separation module that guarantees constant, flawless separation through centrifugal force, even with higher foam loads. Long-term functionality of a suction pump over many years is only guaranteed with reliable separation.

### FREQUENCY-CONTROLLED SUCTION POWER REGULATION\*

Suction power regulation is provided by a frequency controller, which ensures a constantly high vacuum of 180 mbar at the suction tubes, depending on the performance requirement. Furthermore, the frequency-controlled function provides a significant reduction in the energy consumption.  
\* only with EXCOM hybrid 5

### ALUMINIUM TURBINE WHEEL

A free-running aluminium turbine wheel guarantees long-term operational reliability. Plastic wheels are not used.



### HIGH WASTEWATER OUTLET

A wastewater outlet that is installed at this height enables convenient connection to the drain or amalgam separator. Further installation work due to a requirement for any elevation of the suction device is therefore not required.

### ONE MOTOR SHAFT

One motor shaft moves both the vacuum generator and separation and ensures that they can both function at the same time. The danger of a possible fluid overflow due to non-functioning separation in a working suction pump is therefore avoided.

### AIRFLOW-OPTIMISED COOLING FINS

The special design of the optimised air cooling fins results in improved cooling and greater protection against overheating. Efficient cooling air flows at these cooling fins enable faster heat reduction.



MODEL	EXCOM hybrid 1s	EXCOM hybrid 1	EXCOM hybrid A1	EXCOM hybrid 2	EXCOM hybrid A2	EXCOM hybrid 5	EXCOM hybrid A5
Power supply	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC   400 AC	230 V AC   400 AC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Air flow rate	1100 l/min	1100 l/min/ 1300 l/min	1100 l/min/ 1300 l/min	1450 / 1750 l/min	1450 / 1750 l/min	2000 / 2400 l/min	2000 / 2400 l/min
Negative pressure regulated	120 / 140 mbar	180 mbar	180 mbar	180 mbar	180 mbar	180 mbar	180 mbar
Noise level	63 dB(A)	57 / 62 dB(A)	57 / 62 dB(A)	58 / 63 dB(A)	58 / 63 dB(A)	64 / 68 dB(A)	64 / 68 dB(A)
Noise level with cover	54 dB(A)	45 / 49 dB(A)	45 / 49 dB(A)	46/ 50 dB(A)	46/ 50 dB(A)	51 / 54 dB(A)	51,2 / 54,4 dB(A)
Dimensions (H x W x D) mm	530 x 350 x 320	570 x 422 x 400	570 x 770 x 400	580 x 450 x 400	645 x 780 x 400	620 x 460 x 455	620 x 915 x 455
Weight	15 kg	22 kg	24,5 kg	27 kg	29,5 kg	30 kg	35 kg

# Compressors

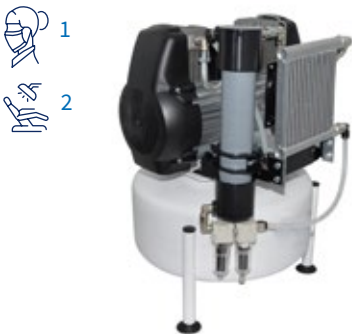
## GENESI Line

Ritter offers a range of compact entry level solutions, perfect for beginners and budget needs. Silent operating, low vibrations, simple and economical maintenance without renouncing at the configuration of high range compressors: integrated filtration system, electrocontrol of the pressure discharge in the delivery pipe, thermal protection and the innovative membrane drying system. Genesi line is also available as M version: equipped with the new membrane drying system, filtration battery and cooling system to provide pure hygienic air. We always recommend the installation of the automatic drain system in case of compressors without air dryer.

24/10 GENESI S



24/10 GENESI M



MINI BOX 24/10 GENESI S



MINI BOX 24/10 GENESI S



MODEL	kW	V/Hz	lt/min	L	dB (A)	kg	mm (l x w x h)
24/10 GENESI S	1,1	230/50	135	24	65	29	430x400x600
24/10 GENESI M	1,1	230/50	120	24	65	33	500x420x600
MINI BOX 24/10 GENESI S	1,1	230/50	135	24	50	66	530x500x800
MINI BOX 24/10 GENESI M	1,1	230/50	120	24	50	67	530x500x800

# Compressors

## PRIME 2 Line

Prime 2 compressors and the entire Prime range are equipped with hour-counter, thermic protection and amperometric protection. Versions equipped with membrane dryer have a filtration system till 0,01 micron and they reach a dew point value of -20 °C, producing dry oil-free hygienic air. Prime 2 models, with only 66 dB/1m noise level, are between the most quite compressors on the market.

50/15 PRIME S



50/15 PRIME M



CS 30/15 PRIME S



CS 30/15 PRIME M



MODEL	kW	V/Hz	lt/min	L	dB (A)	kg	mm (l x w x h)
50/15 Prime S	1,5	230/50	170	40	66	46	600x410x770
50/15 Prime M	1,5	230/50	152	40	66	50	710x410x770
CS 30/15 Prime S	1,5	230/50	170	40	53	94	490x720x890
CS 30/15 Prime M	1,5	230/50	152	40	53	98	490x720x890



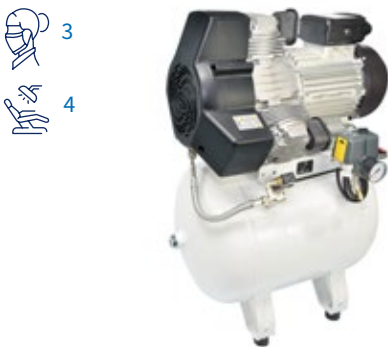
# Compressors

## PRIME 3 Line

Prime 3 compressors are the top of the Prime technology! The 3 cylinders solution provides the optimal balancing and the complete elimination of vibrations, the result is the surprising low noise level of the compressor (66 dB\1m)!

The high efficiency and the new perfect cooling system complete the profile of this exceptional product.

50/25 PRIME S



50/25 PRIME M



CS 50/25 PRIME S



CS 50/25 PRIME M



MODEL	kW	V/Hz	lt/min	L	dB (A)	kg	mm (l x w x h)
50/25 Prime S	2,2	230/50	250	40	66	54	600x410x810
50/25 Prime M	2,2	230/50	225	40	66	58	710x410x810
CS 50/25 Prime S	2,2	230/50	250	40	53	102	490x720x890
CS 50/25 Prime M	2,2	230/50	225	40	53	106	490x720x890

# Compressors

## PRIME TANDEM Multi

Ritter offers a wide range of high power compressors matching any kind of need, starting from the medium to the large clinic. All the Tandem versions are available in the basic configuration (S), silenced (CS) and with membrane dryer (M).

100/30 TANDEM PRIME S



100/30 TANDEM PRIME M



CS 100/30 TANDEM PRIME S



CS 100/30 TANDEM PRIME M



MODEL	kW	V/Hz	lt/min	L	dB (A)	kg	mm (l x w x h)
100/30 Tandem Prime S	3	230/50	340	90	69	97	1100x600x810
100/30 Tandem Prime M	3	230/50	305	90	69	102	1100x630x810
CS 100/30 Tandem Prime S	3	230/50	340	90	56	215	1245x725x1020
CS 100/30 Tandem Prime M	3	230/50	305	90	56	210	1245x725x1020

# Compressors

## PRIME TANDEM Multi

All the Prime multi-head compressors are equipped with an electronic control board that allows the selection of the running motors. The user can activate one or more motors simultaneously according to the compressed air demand or other different needs.  
All the models are also available in three-phase versions.

200/75 TANDEM PRIME S



200/75 TANDEM PRIME M



MODEL	kW	V/Hz	lt/min	L	dB (A)	kg	mm (l x w x h)
200/75 Tandem Prime S	10	400/50	900	270	75	220	1560x1000x1030
200/75 Tandem Prime M	10	400/50	780	270	75	240	1560x1000x1030

# Compressors

## Ritter RA-Series

Introducing our cutting-edge dental compressors, designed with precision and innovation to meet the highest standards of dental care. Engineered for excellence, our compressors boast a range of advanced features that ensure optimal performance and reliability.

RITTER COMPRESSOR RA 5/1



RITTER COMPRESSOR RA 7/1



RITTER COMPRESSOR RA 5/2



RITTER COMPRESSOR RA 7/2



RITTER COMPRESSOR RA 7/3



RITTER COMPRESSOR RA 7/4



MODEL	Power supply	Power	Max. Airflow	Airflow @7 Bar	Noise	Tank	Dimensions (H x W x D) mm	Net / Gross Weight
Ritter RA 5/1	220 V / 50 Hz (110 V / 60 Hz)	0.55 KW / 0.75 HP	115 L/Min	40 L/min	< 58 dB(A)	22 Liter	410 x 410 x 520	23.2 kg / 25.4 kg
Ritter RA 7/1	220 V / 50 Hz (110 V / 60 Hz)	0.75 KW / 1 HP	152 L/Min	50 L/min	< 58 dB(A)	30 Liter	410 x 410 x 650	28 kg / 33 kg
Ritter RA 5/2	220 V / 50 Hz (110 V / 60 Hz)	1.1 KW / 1.5 HP	230 L/Min	80 L/min	< 58 dB(A)	50 Liter	700 x 425 x 690	47.4 kg / 56.6 kg
Ritter RA 7/2	220 V / 50 Hz (110 V / 60 Hz)	1.5 KW / 2 HP	304 L/Min	100 L/min	< 58 dB(A)	50 Liter	700 x 425 x 720	50 kg / 62.5 kg
Ritter RA 7/3	220 V / 50 Hz (110 V / 60 Hz)	2.25 KW / 3 HP	456 L/Min	150 L/min	< 58 dB(A)	70 Liter	920 x 425 x 725	78 kg / 90 kg
Ritter RA 7/4	220 V / 50 Hz (110 V / 60 Hz)	3 KW / 4 HP	608 L/Min	200 L/min	< 65 dB(A)	100 Liter	1070 x 460 x 750	91 kg / 114.5 kg



# Compressor

## Ritter S45

Based on worldwide experience, Ritter extensive range of products covers any air requirement in a modern dental clinic – no matter whether the clinic has one or more dental units. Ritters clean oil-less compressors supply 100% oil-free air to the dental office environment. Ritter S45 guarantees the clean air you expect from a high performance system.

### TECHNICAL DATA

Power:	750 W (1 HP)
Voltage:	220 V/50 Hz, 110 V/60 Hz
Air tank volume:	3φl
Max. Airflow:	152 l/min
Airflow:	78 l/min
Noise:	≤68 dB(A)
Size (L x W x H):	410 x 410 x 650 mm
Net weight:	31 kg
Gross weight:	33 kg



# Imaging

## Leadex70

The Leadex70 is designed for all intraoral dental radiology requirements in the modern dental practice. Integrated directly on your Ritter dental unit, the Leadex70 is a flexible, fast and safe solution to produce an excellent small X-ray image. 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 an adjacent room (cable from the unit in the floor). The X-ray process is performed via the control panel or via the supplied remote control unit.

### TECHNICAL DATA

Supply voltage:	<b>DC</b> 230V; 115V ±10%
Line frequency:	50/60Hz
Line impedance:	0,5 Ohm; 0,2 Ohm
Rated current:	5,2A; 9,5A
Fuse:	F 8A-250V; F 12,5A-250V
Focal spot size:	0,7
Plug connection:	Coaxial connector
Nominal high voltage:	60/70kV
Nominal anode current:	4mA/8mA
Duty cycle:	1:32
Total filtering:	2,4mm Al
Half-layer:	2,2mm Al@70 kV
Scattered radiation:	<0,25 mGy/h
Exposure time:	0,02–3,2s (23 steps)
Total weight:	19,5kg
Output:	<b>DC</b>
Focus-skin distance:	Beam limiting device
Mounting system:	
Outrigger arms:	round; rectangular
Usable range:	20 cm; 31 cm Wall/mobile/on unit 41, 82 and 110 cm 143 cm with 41 cm external arm 184 cm with 82 cm external arm 212 cm with 110 cm external arm



Looking for a suitable X-ray for your clinic?  
Scan QR code and choose!

### INTRAORAL CAMERA WITH MONITOR

The intraoral camera with monitor helps dentists in diagnosis and enabling effective communication with patients about oral health conditions.

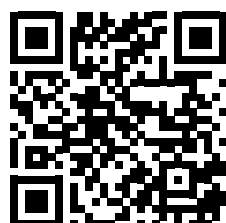


# Handpieces



Looking for suitable handpieces or turbines?

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# Ritter Implants

The complete solution for your practice



Standard & Narrow Line



Healing Caps



Drills



Surgical Kits



Abutments



We offer a variety of implant sizes to meet individual patient needs and supply a range of related products, including surgical instruments and templates for implant placement. We are committed to providing innovative, high-quality products that meet the evolving needs of the dental industry.

For more arguments in favor of our Ritter Implants system, please visit [www.ritterimplants.de](http://www.ritterimplants.de)





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