

MELAG

competence in hygiene

The Cliniclave® series

Large steam sterilizers for practices and clinics



Quality – made in Germany

The Cliniclave® series

Four models for the greatest-possible flexibility

Our experience from developing and manufacturing steam sterilizers since decades, paired with the innovation power of our 165 specialist engineers has resulted in an especially innovative and energy-efficient steam sterilizers: the Cliniclave® series. In addition to the typical MELAG features of record operating times, an intuitive operating concept and integrated documentation and approval, the four large steam sterilizers of this new range present a series of further unique innovations which only we as the specialists for instrument decontamination could deliver to our customers. The focus of the new Cliniclave® series lies on the combination of even shorter operating times and even faster instrument availability, whilst achieving considerable levels of energy efficiency.

The Cliniclave® series consists of large steam sterilizers with a capacity of one or two sterilization units (StU), available as single-door or double-door (pass-through) models.

Cliniclave® 45 single-door version

Chamber: Ø 44 cm x 72 cm deep
Volume: 105 litres
Load: 35 kg
Capacity: 1 sterilization unit (1 StU)
Dimensions: W 65 x H 160 x D 91 cm



Cliniclave® 45 D double-door version

Chamber: Ø 44 cm x 74 cm deep
Volume: 110 litres
Load: 35 kg
Capacity: 1 sterilization unit (1 StU)
Dimensions: W 65 x H 160 x D 101 cm



Cliniclave® 45 M single-door version

Chamber: Ø 44 cm x 134 cm deep
Volume: 200 litres
Load: 70 kg
Capacity: 2 sterilization units (2 StU)
Dimensions: W 65 x H 160 x D 153 cm



Cliniclave® 45 MD double-door version

Chamber: Ø 44 cm x 136 cm deep
Volume: 205 litres
Load: 70 kg
Capacity: 2 sterilization units (2 StU)
Dimensions: W 65 x H 160 x D 163 cm



The three most important advantages of the Cliniclave® series at a glance

1. Save time

With a load quantity of up to 70 kg, the steam sterilizers of the Cliniclave® series can sterilize significantly more instruments than other devices of their class, and achieve record operating times with low levels of water and energy consumption.

2. Work ergonomically

A wide range of batch configurations can be inserted and removed from the steam sterilizer using the loading system (including loading trolley), thereby allowing ergonomic, quick and secure operation.

3. Document securely

The XXL colour-touch display enables intuitive operation. The integrated documentation and approval software permits complete reproducibility. Via the Ethernet interface the Cliniclave® series can be integrated in the practice or clinic network.





1. Save time

Sterilizing large quantities in short operating times.

The sterilization of large instrument quantities and textiles and their quick availability is one of the most important requirements in clinics, practices and outpatient centres. With a load quantity of up to 70 kg of wrapped instruments or 14 kg of textiles, the steam sterilizers of the Cliniclave® series provide far greater performance than almost all other large steam sterilizers. Used in connection with specially-designed mounts, the sterilization chamber provides the best solution for all medical fields.

Ideal solutions for sterilization containers, individually-wrapped instruments and textiles.

Loading example: 12 x MELAstore®-Boxes 200 (Cliniclave® 45)

Dimensions of the MELAstore®-Box 200: 19 cm (W) x 31.2 cm (L) x 6.5 cm (H).



„The large load quantities and short operating times make an important contribution to improving the energy-efficiency of our practice.“

Kirsten, Dres. Frey, Oral Surgeons



2. Work ergonomically

With a loading system for secure and ergonomic loading and unloading.

The loading system of the Cliniclave® series enables the loading and unloading of a wide range of configurations without much effort.

The lower level of the loading trolley provides sufficient space to load the Cliniclave® series steam sterilizers with further sterilization containers or other load elements. The loading system includes a loading trolley and a batch slider with Teflon runners. The sterilization containers or the tray mount are placed on the batch slider and moved securely with the loading hook.



Loading trolley for the steam sterilizers of the Cliniclave® series

„The loading and unloading of the large steam sterilizer using the loading system and the loading trolley guarantees ergonomic and secure working practices.“

Sabine, SPREDOCS Outpatient Surgical Centre





Further device functions making your day that little bit easier

It is often the small things that make our working lives more pleasant. A range of features in the Cliniclave® series help to make your working procedures more simple and secure. These functions are integrated in all of the models of the Cliniclave® series and can be activated directly via the XXL colour-touch display.

3. Document securely

With an integrated software for the approval and traceability of instruments.

The XXL colour-touch display enables an intuitive operation and helps the personnel to avoid errors and to find all the important information quickly. The documentation and approval software integrated in all devices of the Cliniclave® series permits complete reproducibility and total security.

An individual PIN can be issued to every user to enable secure traceability in the approval procedure. Authentication of the batch approval can be performed quickly and securely on the display.

The Cliniclave® series provides a variety of documentation methods: network connection via Ethernet; the printout of barcode labels for marking wrapped instruments; and log output to a CF card.



Printing barcode labels with MELAprint® 60

DRYtelligence®



The procedure of the sensor-controlled and load-specific vacuum drying procedure saves time, cooling water and energy and guarantees optimal drying results.

Energy-saving mode



If the Cliniclave® 45 is not to be switched off during longer operating pauses, the energy-saving mode can be set. This shortens the pre-heating time before the next start.

Automatic shutdown



Activating this function before starting the last batch of the day means that the Cliniclave® switches-off automatically immediately after the end of the program. Batch approval can then be performed the next day, immediately after activating the device.

Start time pre-selection



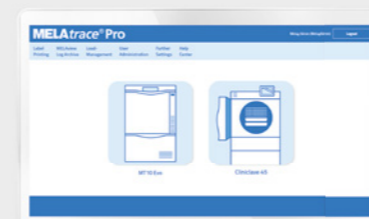
The start time pre-selection function enables the user to select any program and then start it at a specific time, e.g. in order to perform a routine test program.



„The user-friendly batch approval provided by the Cliniclave® 45 facilitates documentation of the sterilization process, thereby simplifying instrument reprocessing. The logs are easy to save and are available at any time. This represents an important contribution to maintaining the high quality of practice processes.“

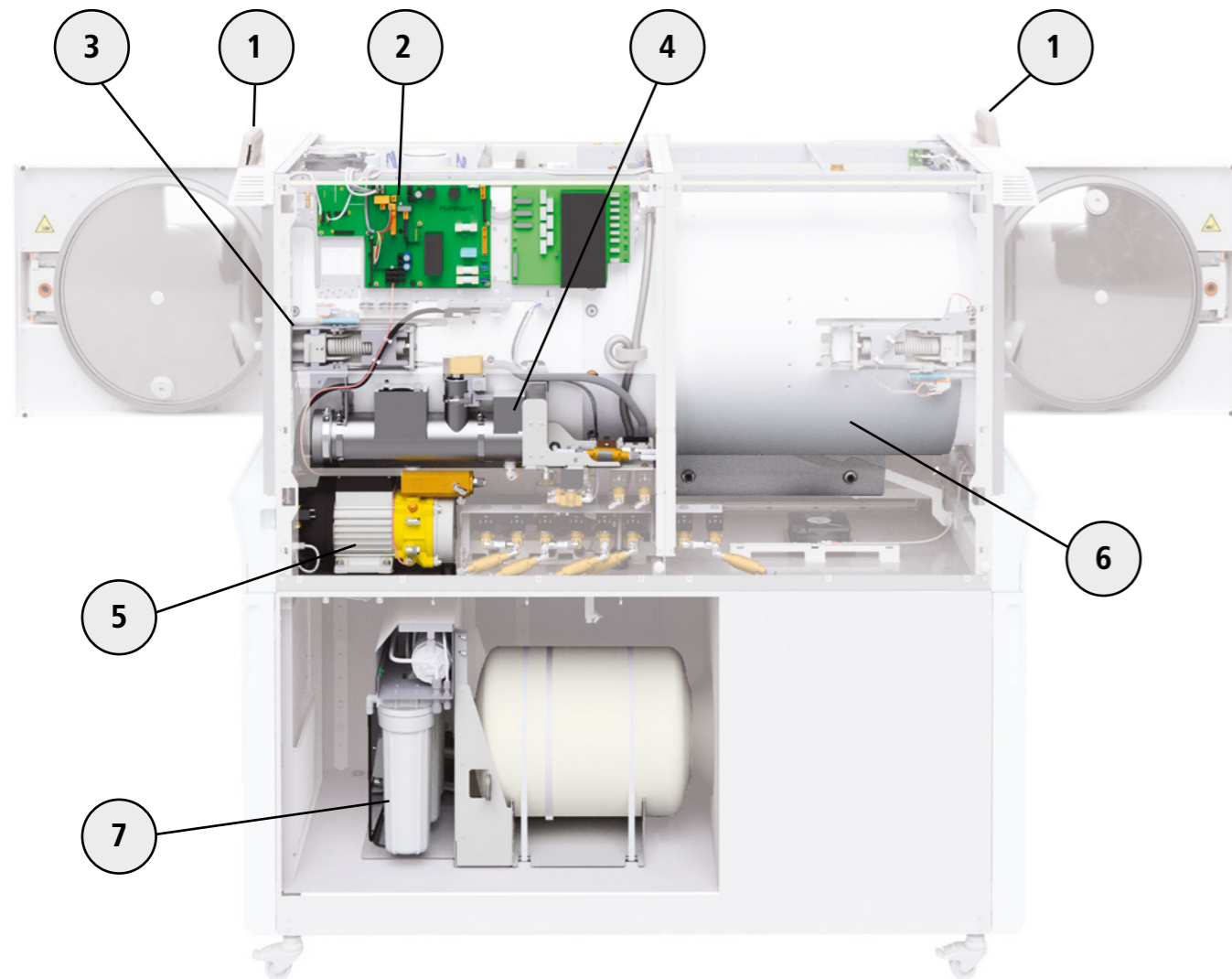
Petra, Day clinic Krahl, Dr. Beltz, Dr. Poppelbaum

Documenting the complete workflow with MELAtrace®:



Innovative and convincing technology

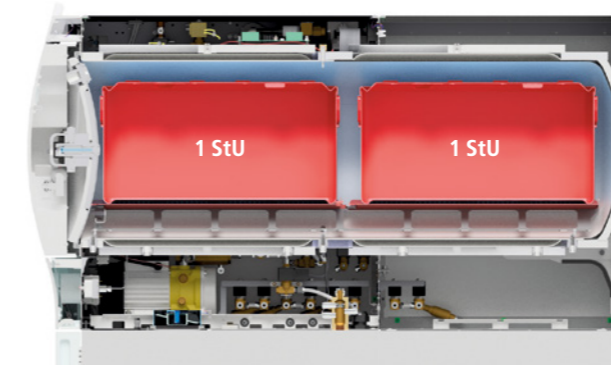
The innovative functions and durable components of the high-end Cliniclave® series produce consistently convincing results. The unique device concept satisfies the highest requirements. In addition to the central device components shown below, the steam sterilizers of the Cliniclave® series contain a range of further highlights, including the unique concept of multipoint steam intake and discharge technology for record operating times and excellent drying results.



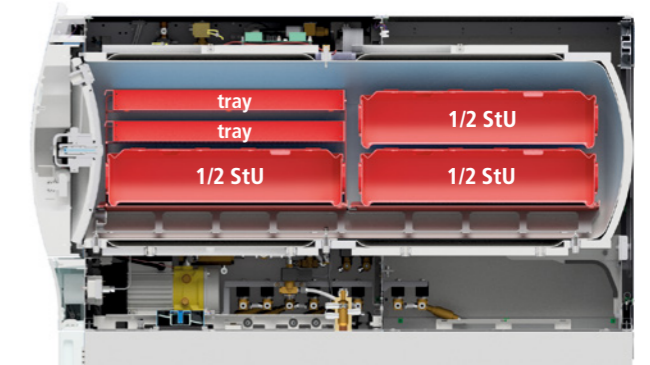
1. XXL colour-touch display
2. Microprocessor control and monitoring electronics for secure and valid processes
3. Electrical door lock for security and ease of use
4. Air gap in accordance with DIN EN 1717 for protection of the drinking water
5. High-performance vacuum pump for the best process results
6. Patented double jacket technology for the highest-quality saturated steam
7. Reverse osmosis unit for independent and automatic aqua dem subsequent feeding

Even more space in the Magnum steam sterilizers of the Cliniclave® series

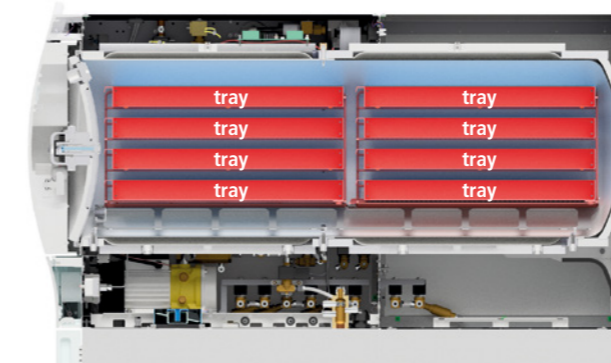
The Cliniclave® 45 M and Cliniclave® 45 MD accommodate 2 sterilization units and can sterilize up to 70 kg of instruments in record time. Four example loads:



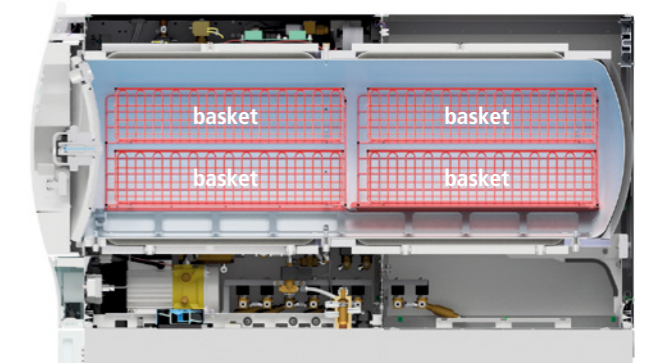
Cliniclave® 45 M with 2 sterilization containers 30 x 30 x 60 cm



Cliniclave® 45 M with 3 sterilization containers 30 x 15 x 60 cm and 2 trays 30 x 5 x 59 cm



Cliniclave® 45 M with 8 trays 30 x 5 x 59 cm



Cliniclave® 45 M with 4 instrument baskets

The Cliniclave® 45 M shown above is also available as the double-door pass-through steam sterilizer Cliniclave® 45 MD.



Discover the product highlights of Cliniclave® 45 MD in our video:



The Cliniclave® series provides the suitable model for every requirement

The compact dimensions of the four large steam sterilizers of the Cliniclave® series are ideally-suited to the needs of clinics, practices and outpatient centres. The position of the door hinge (left or right-hand side) can be chosen for each Cliniclave® model - including the doors of the pass-through steam sterilizers.

| Programm | Cliniclave® 45 | Cliniclave® 45 D | Cliniclave® 45 M | Cliniclave® 45 MD |
|------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Device version | single-door version | double-door version | single-door version | double-door version |
| Chamber volume | 105 litres | 110 litres | 200 litres | 205 litres |
| Capacity | 1 StU | | 2 StU | |
| Door hinge | Selectable: left or right | | | |
| Chamber diameter | Ø 44 cm | | | |
| Chamber depth | 72 cm | 74 cm | 134 cm | 136 cm |
| Dimensions (W x H x D) | 65 x 160 x 91 cm | 65 x 160 x 101 cm | 65 x 160 x 153 cm | 65 x 160 x 163 cm |
| Empty weight | 255 kg | 298 kg | 315 kg | 384 kg |
| Operation weight | 275 kg | 335 kg | 370 kg | 435 kg |
| Power supply | 3x380-415 V, 50/60 Hz, 10.500 W, 16 A | 3x380-415 V, 50/60 Hz, 10.500 W, 16 A | 3x380-415 V, 50/60 Hz, 13.500 W, 32 A | 3x380-415 V, 50/60 Hz, 13.500 W, 32 A |



Cliniclave® 45



Cliniclave® 45 M

Supply with feed water is best performed via a MELAdem® 56 reverse osmosis unit. The MELAdem® 56 was developed especially for the Cliniclave® series and complies with the requirements of EN 1717 for the protection of the drinking water.

The MELAdem® 56 is installed in the floor unit to save space.

The devices of the Cliniclave® series can also be connected to a central water treatment unit or an existing ion exchanger.

Faster instrument decontamination and lower energy consumption

Fast operating times and secure sterilization are amongst the most important requirements of a large steam sterilizer. The devices of the Cliniclave® series always fulfil these requirements. The large load quantities and the low water and energy consumption make the steam sterilizers of the Cliniclave® series the most efficient and compact large steam sterilizers of their class.

| Program | Operating time (with minimum to maximum load) | | | | Drying | | Loading |
|-------------------|--|------------------|------------------|-------------------|------------------|-----------------|--|
| | Cliniclave® 45 | Cliniclave® 45 M | Cliniclave® 45 D | Cliniclave® 45 MD | DRYtelligence® * | Time-controlled | |
| Universal-Program | 19 - 35 min | 24 - 48 min | 18 - 40 min | 23 - 50 min | > 4 min | 20 min | Single and multiple wrapping |
| Quick-Program B | 17 - 22 min | 18 - 27 min | 17 - 21 min | 20 - 28 min | > 4 min | 10 min | Single and unwrapped instruments (no textiles) |
| Quick-Program S | 13 - 17 min | 15 - 22 min | 11 - 17 min | 14 - 22 min | > 4 min | 6 min | unwrapped (no textiles) |
| Gentle-Program | 35 - 36 min | 41 - 45 min | 34 - 36 min | 41 - 45 min | > 4 min | 20 min | Single and multiple wrapping |
| Prion-Program | 34 - 50 min | 38 - 63 min | 32 - 55 min | 27 - 65 min | > 4 min | 20 min | Single and multiple wrapping |

* DRYtelligence® automatically adapts the drying process to your load. Thanks to intelligent drying, optimal drying results are achieved at all times.

Our priority is your satisfaction



"The high loading capacities in conjunction with quick sterilization times of Cliniclave® 45 ensures maximum efficiency in instrument decontamination."

Clinica Veterinaria CMV
Varese, Italy



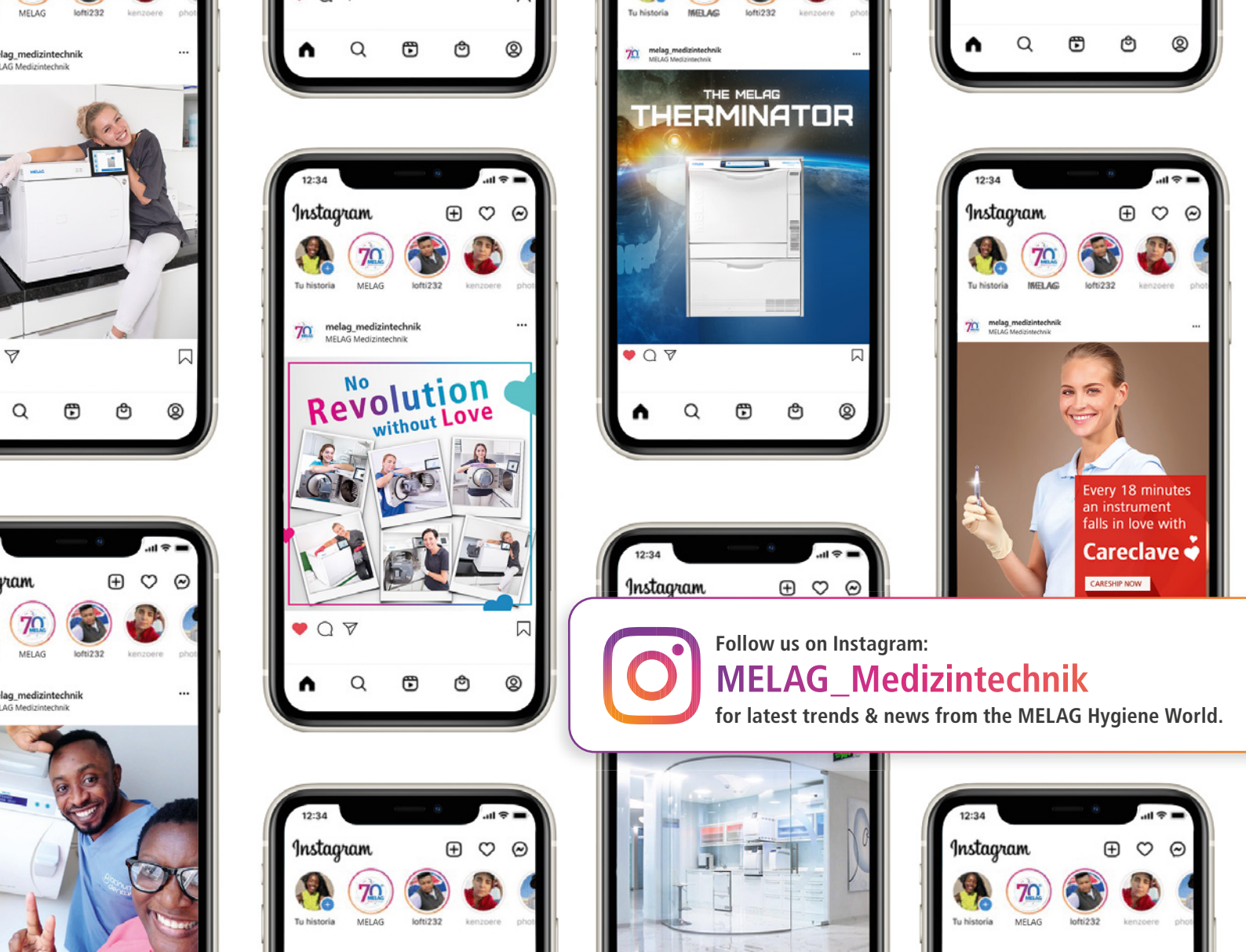
"Reliability and perfection – Cliniclave® provides us with time-saving processes and ensures the highest level of protection against infections for our patients."

Clinique Bellevue
Stavanger, Norway



"We rely on the MELAG system with Cliniclave® 45 D in a two-room concept: Easy loading on the unsterile side and safe unloading on the sterile side."

Thonburi Dental Clinic
Bangkok, Thailand



System solutions, innovation and quality

MELAG was founded in 1951 and is an owner-operated family company, that specializes in products aiming at optimized practice hygiene. The manufacturing and production sites are exclusively located in Germany on a 22.000 m² premises with 450 employees working diligently to maintain MELAG's world leading role in instrument decontamination.



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