

The Cliniclave® Series

Large steam sterilizers for practices and clinics



The Cliniclave® Series

Four models for maximum flexibility

Our decades of development experience in designing and manufacturing practice autoclaves and large steam sterilizers for hospitals, combined with the expertise of our 165 specialized engineers, has led to the development of particularly advanced and energy-efficient autoclaves:

One example of this success story is the Cliniclave® Series. In addition to typical MELAG features such as fast operating times, intuitive operation and integrated documentation and approval, the four autoclaves of the Cliniclave® Series offer a range of unique innovations that can only be developed to this level by a specialist in instrument reprocessing. The Cliniclave® Series combines even shorter operating times with faster instrument availability and energy-efficient operation. The Cliniclave® Series comprises large steam sterilizers with a capacity of one or two sterilization units (STU), each also available as a pass-through autoclave.

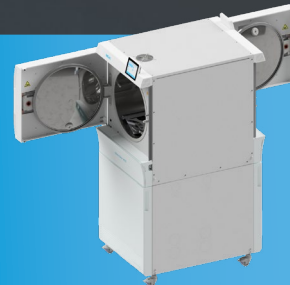
Cliniclave® 45 single-door version

Chamber: Ø 44 cm x 72 cm
deep Volume: 105 litres
Load: 35 kg
Capacity: 1 sterilization unit (1 STU)
Dimensions: H 158 x W 64 x D 91 cm



Cliniclave® 45 D two-door version

Chamber: Ø 44 cm x 74 cm deep
Volume: 110 litres
Load: 35 kg
Capacity: 1 sterilization unit (1 STU)
Dimensions: H 158 x W 64 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: H 158 x W 64 x D 153 cm



Cliniclave® 45 MD two-door version

Chamber: Ø 44 cm x 136 cm deep
Volume: 205 litres
Load: 70 kg
Capacity: 2 sterilization units (2 STU)
Dimensions: H 158 x W 64 x D 163 cm



The three most important benefits of the Cliniclave® Series at a glance

1. Save time!

With a possible load of up to 70 kg, the autoclaves of the Cliniclave® Series can sterilize significantly more instruments than other devices in their class. Sterilize your instruments in record operating time with low water and energy consumption.

2. Work ergonomically!

To sterilize the large loads and wide variety of loading configurations of the Cliniclave® Series ideally in the autoclave, an ergonomic loading and unloading system was developed. This allows loads to be inserted and removed quickly and safely – with virtually no effort.

3. Document securely!

The XXL colour-touch display enables intuitive operation. The integrated documentation and approval software provides complete reproducibility. Integration into the practice or clinic network is ensured via the Ethernet interface supplied as standard.



Images of the loading trolley may show an earlier design version

1. Save time!

With large load capacities and short operating times.

Sterilizing and quickly making larger quantities of instruments and textiles available again are among the most important requirements in clinics, practices and outpatient centres.

With a load capacity of up to 70 kg of wrapped instruments or 14 kg of textiles, the autoclaves of the Cliniclave® Series provide significantly more capacity than other large steam sterilizers. Combined with specially designed loading mounts, the cylindrical sterilization chamber offers optimum solutions for every specialty.



Ideal solutions for sterilization containers, wrapped instruments and textiles.

Maximum load with MELAstore® Boxes

Cliniclave® 45 / C45 D

Up to 18 × MELAstore® Box 100

Up to 12 × MELAstore® Box 200

Cliniclave® 45 M / C45 MD

Up to 36 × MELAstore® Box 100

Up to 24 × MELAstore® Box 200

"The large load capacity and short operating times make an important contribution to improving the energy efficiency of our practice."

Kirsten, oral surgeons Dres. Frey



2. Take the strain off your team!

For safe and ergonomic loading and unloading.

With the right loading system, the many different loading configurations can be inserted into and removed from the sterilization chamber with almost no effort.

The lower level of the loading trolley provides sufficient space to load the autoclaves of the Cliniclave® Series with additional sterilization containers or other loading elements. In addition to the loading trolley, the loading system includes a batch slider fitted with Teflon runners. Sterilization containers or the loading mount are placed on the batch slider and moved safely using the push hook.



"Loading and unloading the large steam sterilizer with the loading system, including the transport trolley, enables our specialist staff to work ergonomically and safely at all times."

Sabine, SPREEDOCS at Clinica Vita



Images of the loading trolley may show an earlier design version



1. Document securely!

With the integrated software for approval and traceability of instruments.

The XXL colour-touch display enables intuitive operation, helps prevent errors and makes all important information easy to find. The integrated documentation and approval software supplied as standard provides complete reproducibility and seamless safety.

For secure traceability of the approval process, an individual PIN can be assigned to every user. Authentication for batch approval is carried out quickly and securely on the display.

The Cliniclave® Series offers versatile documentation options: from network integration via the Ethernet interface and printing barcode labels to identifying wrapped instruments through to outputting logs to the CF card.



"The user-friendly batch approval simplifies documentation of the sterilization process and therefore instrument reprocessing. The logs can be stored conveniently and are available at any time. This makes an important contribution to consistently high quality in practice processes."

Petra, day clinic at the Dutch Quarter in Potsdam

Further device functions that make your working day easier.

It is often the small features that make work more pleasant. Versatile options help make workflows easier, safer and more convenient. These functions are integrated in all models of the Cliniclave® Series and can be activated directly via the XXL colour-touch display.

DRYtelligence
The sensor-controlled, load-specific vacuum drying process saves time, cooling water and energy and guarantees optimum drying results.

Energy-saving mode
If the Cliniclave® 45 is not to be switched off during longer operating breaks, activate energy-saving mode: this shortens the preheating time at the

Automatic switch-off
If you activate this function before the last batch of the day, the Cliniclave switches off automatically immediately after the program has finished. The batch can then be approved the next day immediately after switching on the autoclave.

Start time preselection
Start time preselection enables you to choose any program and start it at a time you define, for example for routine test programs.



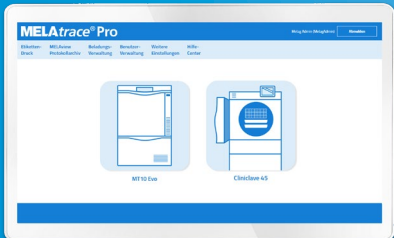
Routine tests for the Cliniclave® Series

Whether textiles, solid instruments or hollow-body instruments – with our Bowie-Dick test, Type 5 indicator or Helix test, you can reliably check the sterilization result of the autoclave.

Print barcode labels with the MELAprint® 60



Document approvals, batches and logs seamlessly with MELAtace®



MELAcontrol®
Bowie & Dick Test



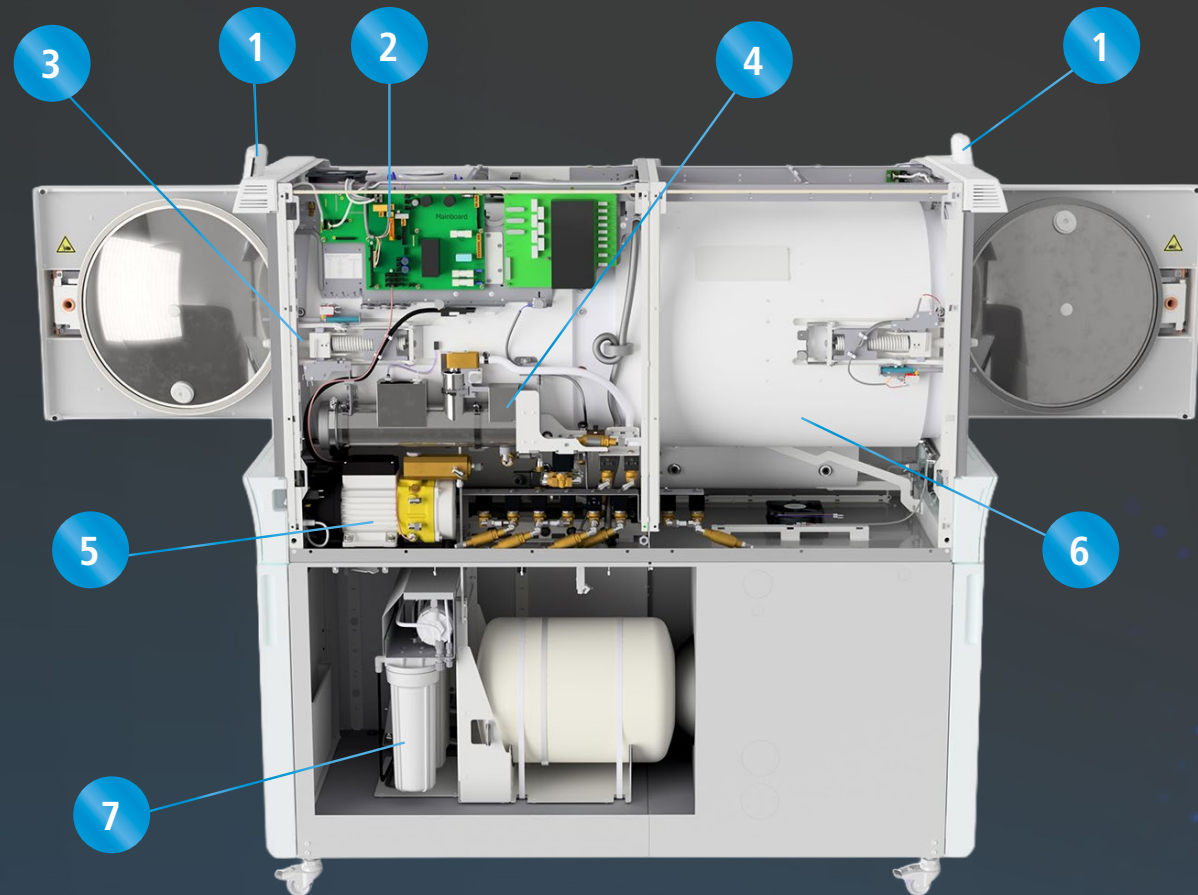
MELAcontrol®
Type 5 Indicator



MELAcontrol®
Helix

Innovative, future-oriented technology that convinces.

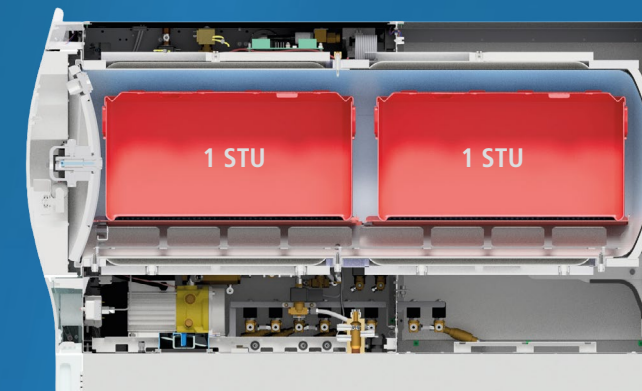
The Cliniclave® Series impresses with innovative functions and high-quality, durable components. The device concept is unique and meets the highest demands. In addition to the key device components shown below, the autoclaves of the Cliniclave® Series include many other technical highlights, such as the unique concept of multi-point steam inlet and steam outlet, which ensures record operating times and outstanding drying results.



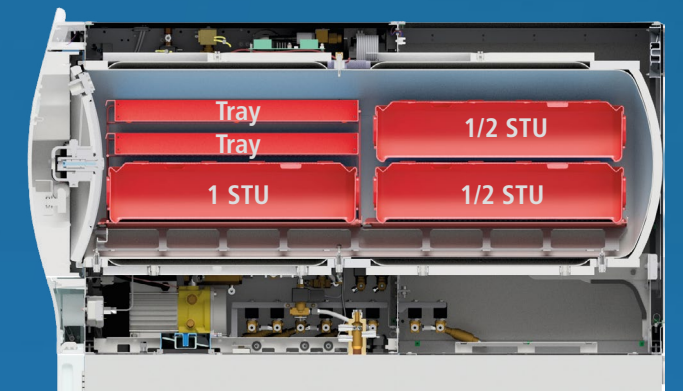
1. XXL colour-touch display
2. Microprocessor control and monitoring electronics for safe and valid processes
3. Electric door lock for safety and convenience
4. Free outlet in accordance with DIN EN 1717 for drinking-water protection
5. High-performance vacuum pump for optimum process results
6. Patented double-jacket technology for maximum saturated-steam quality
7. Reverse osmosis system for automatic feed-water supply

Even more space in the magnum autoclaves of the Cliniclave® Series.

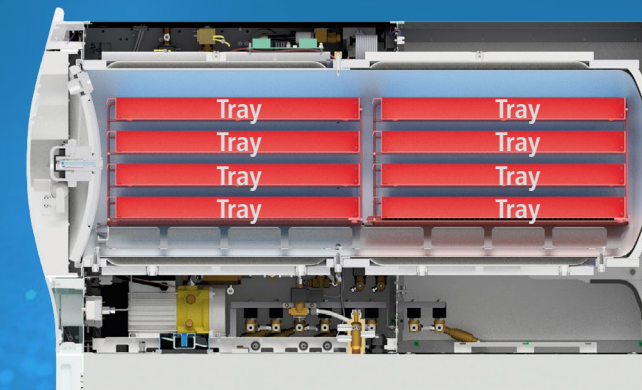
The Cliniclave® 45 M and Cliniclave® 45 MD hold 2 sterilization units and can sterilize loads of up to 70 kg of instruments in record time. These four loading examples are possible.



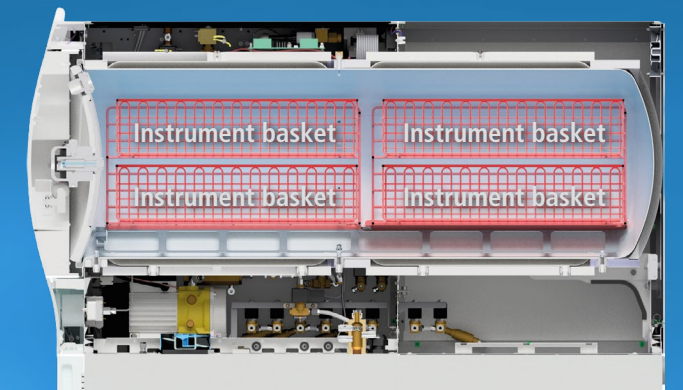
Cliniclave® 45 M with 2 sterilization containers
30 x 30 x 60 cm



Cliniclave® 45 M with 3 sterilization containers 30 x 15 x 60 cm and 2 trays 31 x 58 x 5 cm



Cliniclave® 45 M with 8 trays
31 x 58 x 5 cm

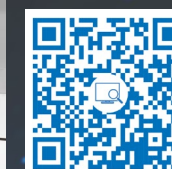


Cliniclave® 45 M with 4 instrument baskets
28 x 13 x 57 cm

The Cliniclave® 45 M shown schematically here is also available as the two-door pass-through autoclave Cliniclave® 45 MD



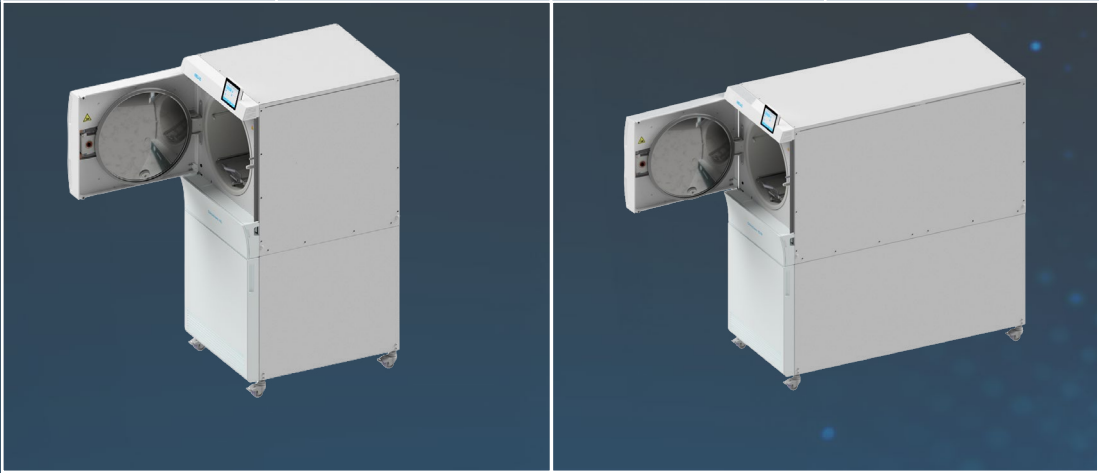
Discover the product highlights of the Cliniclave® Series at:
www.melag.com/en/products/large-autoclaves/cliniclave



The Cliniclave Series offers the right model for every requirement.

With their compact dimensions, the four large steam sterilizers of the Cliniclave® Series are ideally suited to practices, outpatient centres and clinics. The door hinge side can be freely selected for every Cliniclave® 45 – this also applies to both doors of the pass-through autoclaves.

Program	Cliniclave® 45	Cliniclave® 45 D	Cliniclave® 45 M	Cliniclave® 45 MD
Device model	Single-door large steam sterilizer	Double-door large steam sterilizer	Single-door large steam sterilizer	Double-door large steam sterilizer
Chamber volume	105 litres	110 litres	200 litres	205 litres
Capacity	1 sterilization unit		2 sterilization unit	
Door hinge	Selectable: left or right			
Chamber diameter	Ø 44 cm			
Chamber depth	72 cm	74 cm	134 cm	136 cm
Dimensions (H × W × D)	158 × 64 × 91 cm	158 × 64 × 101 cm	158 × 64 × 153 cm	158 × 64 × 163 cm
Empty weight	244 kg	298 kg	315 kg	384 kg
Operating weight	292 kg (incl. MELAdem 56)	373 kg (incl. MELAdem 56)	423 kg (incl. MELAdem 56)	488 kg (incl. MELAdem 56)
Power supply (star connection)	3×380–415 V, 50/60 Hz, 10,500 W, 16 A	3×380–415 V, 50/60 Hz, 10,500 W, 16 A	3×380–415 V, 50/60 Hz, 13,500 W, 32 A	3×380–415 V, 50/60 Hz, 13,500 W, 32 A
NEW: Now also available with delta connection for 220 - 240 V three-phase systems:				
Power supply (delta connection)	3x220-240 V, 50/60 Hz, 10.500 W, 32 A	3x220-240 V, 50/60 Hz, 10.500 W, 32 A	3x220-240 V, 50/60 Hz, 13.500 W, 32 A	3x220-240 V, 50/60 Hz, 13.500 W, 63 A



Feed water is preferably supplied via the MELAdem® 56 reverse osmosis system. It was developed specifically for the Cliniklave® Series and meets the requirements of EN 1717 for drinking-water protection.

The MELAdem® 56 is installed in the base cabinet to save space.

The devices of the Cliniclave® Series can also be connected to central water-treatment

Speed up the reavailability of your instruments.

Fast operating times and reliable sterilization safety are among the most important requirements of a large steam sterilizer: The devices of the Cliniclave® Series consistently meet these requirements. Large load capacities combined with low water and energy consumption make the autoclaves of the Cliniclave® Series some of the most efficient and compact large steam sterilizers in their class.

Program	Operating time (with minimum to maximum load)				Drying		Load
	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	from 4 min	20 min	single- and multiple-wrapped
Quick Program B	17 - 22 min	18 - 27 min	17 - 21 min	20 - 28 min	from 4 min	10 min	singly wrapped and unwrapped instruments (no textiles)
Quick Program S	13 - 17 min	15 - 22 min	11 - 17 min	14 - 22 min	from 4 min	6 min	unwrapped only (no textiles)
Gentle Program	35 - 36 min	41 - 45 min	34 - 36 min	41 - 45 min	from 4 min	20 min	single- and multiple-wrapped
Prion Program	34 - 50 min	38 - 63 min	32 - 55 min	27 - 65 min	from 4 min	20 min	single- and multiple-wrapped

* DRYtelligence® automatically adapts the drying process to your load. Intelligent drying therefore achieves optimum drying results at all times.

Your satisfaction is our standard



“Sterilize more instruments in less time – Cliniclave® 45 guarantees optimum workflows and safe treatment for our patients.”

Berger Klinik Surgical Center, Frankfurt am Main



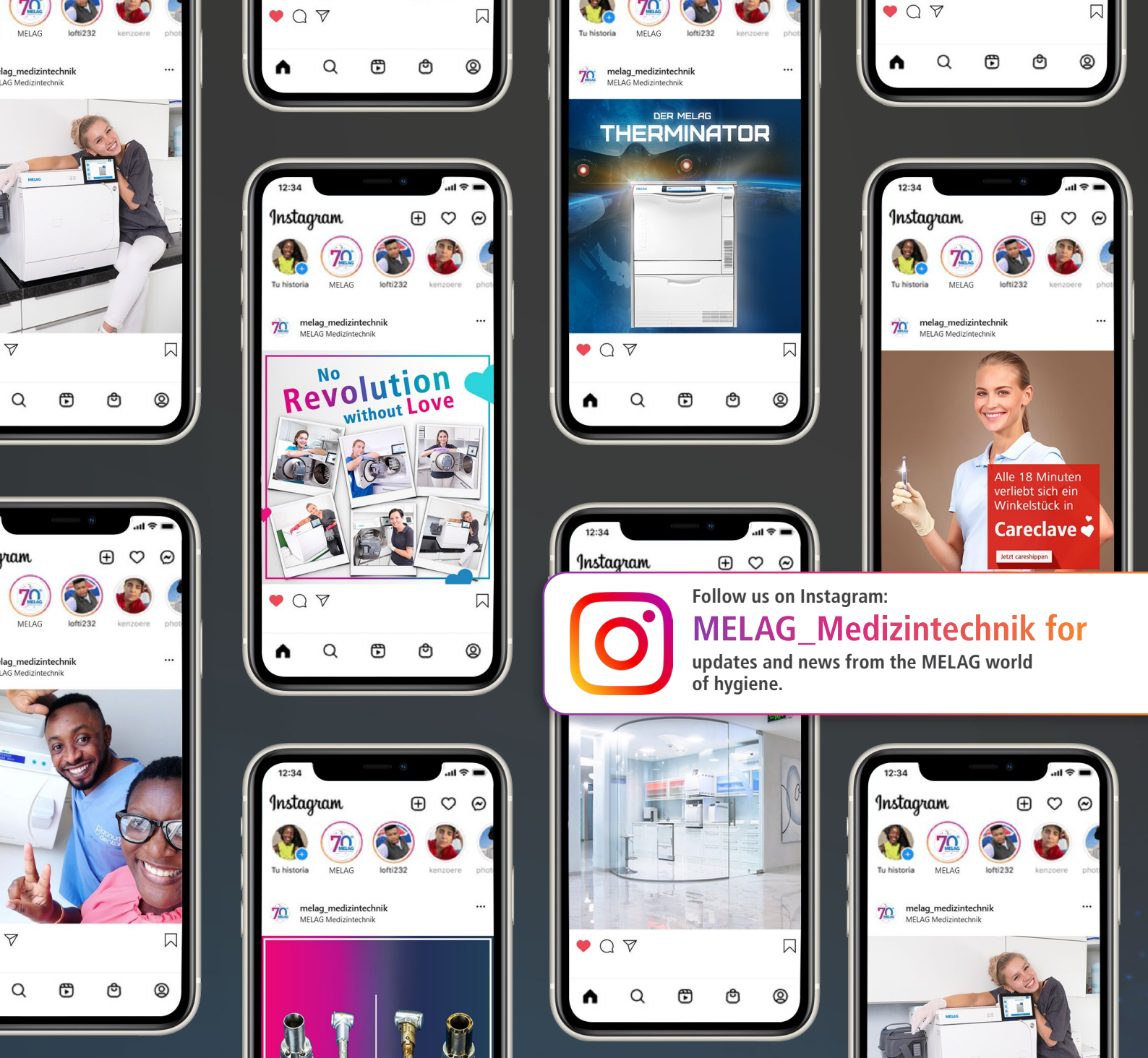
“No compromises on quality: With Cliniclave®45 we sterilize our instruments safely and efficiently in-house.”

Danube Private University (DPU), Krems



“The Cliniclave® 45 is an absolutely reliable large steam sterilizer with short program run times and perfect drying results.”

Tagesklinik am Holländischen Viertel, Potsdam



System solutions, innovation and quality

We are an owner-managed family company that has focused on products for practice hygiene since it was founded in 1951. With more than 500 employees, we manufacture exclusively in Germany on an area of around 25,000 m² and are the global market leader in instrument reprocessing.



Save paper, protect the environment:

To reduce paper consumption, we provide the user documentation electronically in our Download Center. Further information is available at www.melag.com

MELAG
competence in hygiene