

Simply functional.

Elmasonic Accessories



Elma Accessories

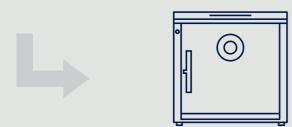
Simply more effective. **Optimised for ultrasonic** cleaning.

Functions



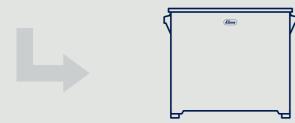
Elma Basket.

Procedure: Set-up Benefit: Individually adaptable cleaning baskets The items to be cleaned can be positioned as required for optimal cleaning results.



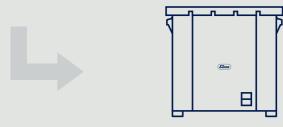
Elma Mutebox.

Procedure: Noise reduction Benefit: Noise reduction of up to 85 % Low-noise cleaning process.



Elma Sink.

Procedure: Rinsing Benefit: Suitable cleaning solution Removes any remaining contamination after cleaning.



Elma Dry.

Procedure: Drying

Benefit: Hot-air (70 °C) and cold-air blower Allows the cleaned items to drip dry or cool down and dry as the final step in the cleaning process.

Application

The right set.

The users can select the basket that matches their unit and customise it with Elma pins, plug-in elements and inserts. This will ensure that the items are optimally positioned in the ultrasonic bath – for perfect cleaning results.

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Ingeniously innovative.

Now, the user places the ultrasonic unit inside the Elma Mutebox before inserting the loaded basket. The lownoise cleaning process can then be started.

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For perfect cleaning results.

The Elma Sink serves as a rinsing solution to remove cleaning chemicals/residues. After cleaning, the user places the basket in the Elma Sink, which is filled with water. The cleaned items are then thoroughly rinsed.

Safe and efficient.

In the last step, the user removes the basket containing the cleaned items from the Elma Sink, places it in the hot/cold-air drying unit and starts the drying process.

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SET-UP

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NOISE REDUCTION

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RINSING

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DRYING

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EXPAND

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| : Holders | 16 |
| : Inserts | 18 |

www.elma-ultrasonic.com



Elma Basket

Optimal loading. Unlimited flexibility. Maximum benefits.

An ingeniously simple solution.

When designing the new Elma Basket, we thought two steps ahead. These baskets, which we manufacture in-house, feature a punched pattern on the base and side walls. In conjunction with a set of different pins, these holes allow the objects inside to be positioned as required. For unlimited flexibility. Each item can be individually secured – whether bulky industrial

parts, laboratory glassware, small watch components or items of jewellery. The number of objects that can be cleaned in the basket is thus maximised and optimal cleaning results are ensured thanks to perfect placement, which also saves water, cleaning chemicals, energy as well as time and money.

Technical data Mechanical

| Elma Basket | 10 | 20 | 30 | 40 | 60 | 80 | 100 | 120 | 150 | 180 | 300 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Basket int. width (mm) | 155 | 110 | 195 | 195 | 255 | 455 | 250 | 250 | 450 | 280 | 450 |
| Basket int. depth (mm) | 70 | 105 | 105 | 105 | 105 | 105 | 195 | 195 | 255 | 255 | 255 |
| Basket int. height (mm) | 35 | 50 | 50 | 95 | 95 | 55 | 90 | 135 | 55 | 135 | 135 |
| Maximum load (kg) | 1.0 | 1.0 | 1.0 | 3.0 | 5.0 | 5.0 | 6.0 | 7.0 | 7.0 | 8.0 | 10.0 |

Compatible with

| Unit size / tank size | 10 | 20 | 30 | 40 | 60 | 80 | 100 | 120 | 150 | 180 | 300 |
|-----------------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Elmasonic Easy | • | • | • | • | • | | • | • | | • | • |
| Elmasonic Med | | | • | | • | | • | • | | • | • |
| Elmasonic Select | | | • | • | • | | • | • | • | • | • |
| Elmasonic P | | | • | | • | • | | • | | • | • |
| Elma Dry | | | • | | | | | • | | | • |
| Elma Sink | | | | • | • | | | | | • | • |



Elma Basket



Elma combines functionality with perfection.

Elma goes the extra mile. The new Elma Basket is a powerful tool that enables effective and efficient cleaning processes as well as flexible loading. It can be neatly summed up in three words: combine, adapt and customise.

Elma Pin Starter Set



Good to know: the Starter Set includes the Elma Pins shown above It is only possible to reorder individual Elma Pins in sets of 10.

Functional elements



Positioning aid Plastic



To partition the basket Stainless steel



SECOND LEVEL

To partition the basket Stainless steel



SIDE CHAMBER FLOOR CHAMBER Positioning aid

Silicone



SHAFT HOLDER

Positioning aid Plastic-coated stainless steel

Good to know: Elma baskets allow complete, user-specific customisation in terms of partitioning and equipment. This ensures perfect cleaning results.





Elma Mutebox

Optimum cleaning, every time. Hygienic, low-noise and environmentally friendly.

Ingeniously innovative.

The new Elma Mutebox guarantees low-noise cleaning. Its quiet fan and optimal insulation make working with ultrasonic equipment a pleasant, health-friendly and quiet experience, whether for cleaning or sample preparation. In addition, the fan extracts condensation water and vapours to the rear. Noise levels are reduced by up to 85 % with the Elma Mutebox (i.e. by a further 30 % compared to the previous model).

The interior lighting and glass door let you keep an eye on the cleaning process at all times. Two independent access points ensure that the items being cleaned and the ultrasonic unit are always easily accessible. The Mutebox, which we manufacture in-house, is made of high-quality steel and is easy to clean, thus also ensuring hygienic operation.

Technical data

Mechanical

| Elma Mutebox | ML | XL |
|--|-----------------|-----------------|
| External device dimensions W/D/H (mm)* | 545 / 530 / 525 | 860 / 605 / 525 |
| Internal dimensions W/D/H (mm) | 430 / 380 / 445 | 710 / 450 / 445 |
| Empty weight (kg) | 18.9 | 26.2 |

Electrical

| Elma Mutebox | ML XL | | | | | | |
|----------------------|-----------------------|--|--|--|--|--|--|
| Mains voltage (V~) | 110 - 240 | | | | | | |
| Mains frequency (Hz) | 50 / 60 | | | | | | |
| Country adapters | EU / UK / USA / Japan | | | | | | |
| Volume reduction | up to max. 85 % | | | | | | |

Compatible with

| Elma Mutebox | 10 | 20 | 30 | 40 | 60 | 100 | 120 | 180 | 70 | 80 | 150 | 200 | 300 |
|-------------------|----|----|----|----|----|-----|-----|-----|----|----|-----|-----|-----|
| Elmasonic Easy | • | • | • | • | • | • | • | • | | | | | • |
| Elmasonic Med | | | • | | • | • | • | • | | | | • | • |
| Elmasonic Select | | | • | • | • | • | • | • | | • | • | | • |
| Elmasonic P | | | • | | • | | • | • | • | | | | • |
| Elmasonic xtra TT | | | • | | • | | • | | | | | • | |

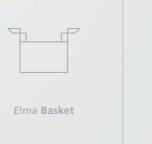
^{*} External dimensions of the appliance with closed cover and door.

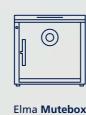
Noise reduction

Consistently optimise your cleaning processes.

Elma Mutebox ML Empty weight 18.9 kg











Elma Dry

Rinsing

Consistently optimise your cleaning processes.

Elma Basket



Elma Mutebox

Elma Sink

Elma Dry



Elma Sink

Simply reliable. Simply a step ahead. Ensure your items are thoroughly rinsed.

For perfect cleaning results.

The new Elma Sink is an important addition to the overall cleaning process. This tabletop unit is available in four different sizes – the L and XL models feature an additional side drain. Once the cleaning process in the ultrasonic unit is complete, the basket can be

inserted directly into the Elma Sink. This will ensure that any residues and cleaning chemicals are rinsed off – thoroughly. In conjunction with a suitable rinsing medium, this guarantees optimal cleaning results.

Technical data

Mechanical

| Elma Sink | S | М | L | XL |
|--|-----------------|-----------------|-----------------|-----------------|
| Total volume V (I) | 3.9 | 5.9 | 17.8 | 27.5 |
| External device dimensions W/D/H (mm) | 305 / 155 / 220 | 365 / 170 / 270 | 395 / 315 / 325 | 565 / 315 / 325 |
| Internal tank dimensions W ₁ /D ₁ /H ₁ (mm) | 215 / 115 / 145 | 280 / 130 / 145 | 300 / 270 / 195 | 475 / 270 / 195 |

Basket accessories

| Elma Sink | | : | S | М | | L | | х | (L |
|-----------|----------------------|----|----|----|-----|-----|-----|-----|-----|
| Compatib | le with Elma Baskets | 30 | 40 | 60 | 100 | 120 | 180 | 200 | 300 |



Elma Dry

Fast, safe to use and gentle on the material. Efficient drying guaranteed.

Safe and efficient.

The Elma Dry units are available in three sizes (30, 120 and 300). They are designed for use in production facilities, workshops and service areas. After cleaning in the ultrasonic bath, the items in the Elma basket are first rinsed in the Elma Sink and then dried easily and conveniently in the Elma Dry. Its cold/hot-air blower (70 °C) ensures that even delicate parts can be dried gently. In cold-air mode, the parts can also be cooled down quickly. The cover includes ventilation slits that

maximise the air turbulence and discharge the humid air to the outside. At the same time, the cover reduces energy consumption. The dust filter on the underside of the base is replaceable and prevents recontamination of the cleaned parts due to dust in the room air. Due to the safety shutdown when the limit temperature is reached, Elma Dry units are both extremely safe and gentle on their contents.

Technical data

Mechanical

| Elma Dry | 30 | 120 | 300 |
|--|-----------------|---------------------|----------------------|
| External device dimensions W/D/H (mm) | 300 / 186 / 219 | 362 / 285 / 322 | 568 / 347 / 322 |
| Internal tank dimensions W ₁ / D ₁ / H ₁ (mm) | 220 / 120 / 95 | 275 / 215 / 195 | 475 / 270 / 195 |
| Compatible with Elma baskets | Size 30 | Size 60 / 100 / 120 | Size 150 / 200 / 300 |

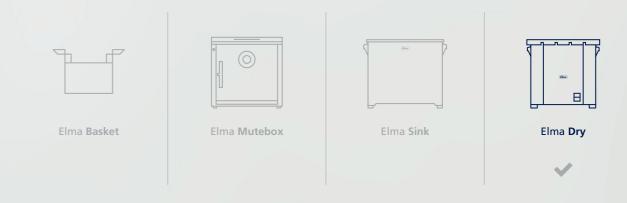
Electrical

| Elma Dry | 30 | 120 | 300 |
|----------------------|-----|-----------------------|------|
| Mains voltage (V~) | | 220 - 240 / 115 - 120 | |
| Heating power (W) | 480 | 550 | 1100 |
| Max. air flow (m³/h) | 10 | 60 | 320 |

Drying

Consistently optimise your cleaning processes.







Elma cover

Clean and quiet operation. It's that simple.



Elma has you covered.

Compatible covers in various designs are available for each ultrasonic cleaning unit. The cover performs a variety functions. It reduces the noise level during the cleaning process by up to 54 %. Furthermore, the underside of the cover serves as a catch tray for dripping water – simply place the Elma Basket on the upturned cover once the cleaning process is complete. However, the cover also returns evaporating water to the ultrasonic bath. This saves energy and thus reduces costs.

Benefits.

: Less noise during ultrasonic cleaning

: Energy and cost savings

: Plastic: available in 3 colours

: Can be used as a drainer

: Noise protection cover: self-assembly set available

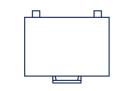
Made in Germany.

Our product development process is based on what the end users actually need. Which is why we subject our accessories to ongoing testing in order to continuously improve them. Our goal is to maximise each product's benefits and ease of use – for perfect cleaning results.









NOISE PROTECTION



SPECIAL*

* Round covers are available for the Elmasonic Easy R series.

Plastic

| Туре | 10 | 15 | 20 | 30 | 40 | 60 | 70 | 80 | 100 | 120 | 150 | 180 | 200 | 300 |
|------------------|---------|-----|------|-----|------|---------|-----|------|-----|------|---------|---------|---------|---------|
| Ext. dimensions* | 235/115 | 220 | /175 | 305 | /175 | 270/190 | 570 | /170 | 380 | /280 | 575/335 | 405/340 | 600/365 | 575/33! |
| Elmasonic Easy | • | | • | • | | • | | | • | • | | • | | • |
| Elmasonic Med | | | | • | | • | | | • | • | | • | • | • |
| Elmasonic Select | | | | • | • | • | | • | • | • | • | • | | • |
| Elmasonic P | | | | • | | • | • | | • | • | | • | | • |

 $[\]star$ External dimensions in mm (width x depth). The height of all variants is 20 mm.

Stainless steel

| stainiess steei | | | | | | | | | | | Special | |
|------------------|-----|------|---------|-----|------|---------|---------|---------|---------|---------|---------|-------|
| Туре | 30 | 40 | 60 | 100 | 120 | 150 | 180 | 300 | 500 | 900 | 50R | 350R |
| Ext. dimensions* | 265 | /160 | 325/175 | 325 | /265 | 530/325 | 355/325 | 530/325 | 540/370 | 650/550 | 345/275 | ø 640 |
| Elmasonic Easy | • | • | • | • | • | | • | • | | | • | • |
| Elmasonic Med | • | | • | • | • | | • | • | • | • | | |
| Elmasonic Select | • | • | • | • | • | • | • | • | • | • | | |
| Elmasonic P | • | | • | • | • | | • | • | | | | |

^{*} External dimensions in mm (width x depth). The heights are as follows: type 30 to 300 = 55 mm; type 500 and 900 = 50 mm; type 50R = 20 mm; type 350R = 70 mm.

Noise reduction cover

| Туре | 500 | 900 |
|------------------|---------------|-----------------|
| Ext. dimensions* | 580 / 495 | 680/665 |
| Height** | 6 | 55 |
| Noise reduction | 40 % | 54 % |
| Special function | Process vapou | rs are retained |
| Elmasonic Med | • | • |
| Elmasonic Select | • | • |

 $^{^{\}star}$ External dimensions in mm (width x depth). The height of all variants is 180 mm.

PLASTIC STAINLESS STEEL

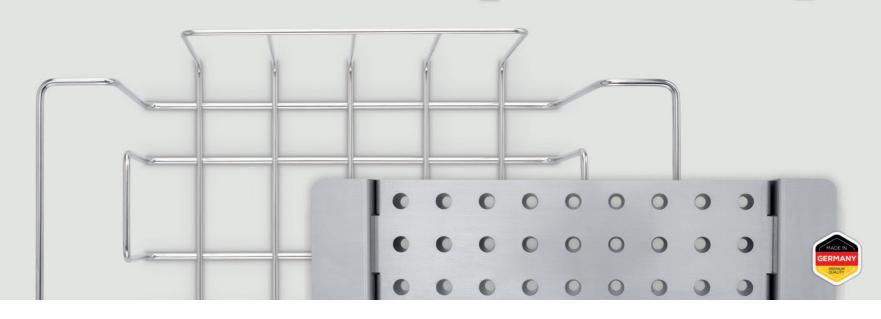
^{**} Height when installed.





Elma holders

Everything in its proper place.



Stay organised.

Ultrasonic baths are used to clean items with a wide variety of geometries. From small watch components and items of jewellery to conical flasks, test tubes and even dental products. The diverse Elma holders ensure that objects of all shapes and sizes can be securely positioned and arranged in the Elma Basket. Optimum positioning of the items inside the bath is also a prerequisite for achieving the best possible cleaning results.

Benefits.

- : Allows items to be individually positioned
- : Lets you clearly structure your cleaning process
- : Prevents scratches on the tank floor
- : Holders are available for various applications
- : Special solutions are available (e.g. for conical flasks)

Stable temperatures during the cleaning process.

The stainless steel *cooling coil* is an important component. It is designed to be connected to a recirculating cooler in order to reduce or stabilise the process temperature in the ultrasonic bath.











RETAINING BRACKET

JEWELLERY HOLDER

COOLING COIL

TEST TUBE HOLDER*

For jewellery

| Туре | 30 | 40 | 60 | 100 | 120 | 150 | 180 | 300 |
|------------------|----|----|----|---------|---------|-----|-----|-----|
| Ext. dimensions* | | | | 355 / 5 | 50 / 80 | | | |
| Elmasonic Easy | 1x | | 1x | 2x | 2x | 5x | 3x | 5x |
| Elmasonic Med | 1x | | 1x | 2x | 2x | | 3x | 5x |
| Elmasonic Select | 1x | 1x | 1x | 2x | 2x | 5x | 3x | 5x |
| Elmasonic P | 1x | | 1x | | 2x | | 3x | 5x |

^{*} External dimensions in mm (width x depth x height).

For test tubes*

| Туре | 30 | 30H | 40 | 40H | 60 | 60H | 80 | 100 | 100H | 120 | 120H | 150 | 180 | 180H | 200 | 300 | 300H |
|------------------|----|-----|----|-----|----|-----|----|-----|------|-----|------|-----|-----|------|-----|-----|------|
| Elmasonic Easy | | • | | • | | • | | | • | | • | | | • | | | • |
| Elmasonic Med | • | | | | • | | | • | | • | | | • | | • | • | |
| Elmasonic Select | • | | • | | • | | • | • | | • | | • | • | | | • | |
| Elmasonic P | | • | | | | • | | | | | • | | | • | | | • |

^{*} Optionally for 8 or 16 test tubes.

For centrifuge tubes*

| Туре | 100 | 120 | 150 | 180 | 200 | 300 |
|-----------|-----|-----|-----|-----|-----|-----|
| Elmasonic | • | • | • | • | • | • |

^{*} Optionally for 24 or 27 centrifuge tubes.

For conical flasks

| Туре | 50 ml | 250 ml | 500 ml | 1000 ml |
|---------------|------------------|--------------|----------------|----------------|
| Ext. dimensio | ns* 55 / 55 / 50 | 90 / 90 / 70 | 110 / 110 / 85 | 135 / 135 / 85 |

 $^{^{\}star}$ External dimensions in mm (width x depth x height).

^{*} Holder for centrifuge tubes are also available.



Elma inserts

Different inserts. Countless possibilities.



Stay in control.

Elma ultrasonic units can be operated with or without a cover. For more efficient operation, Elma offers various *insert covers* made of robust and easy-to-clean stainless steel for up to four *cleaning jars*. These covers make it possible to clean objects made of different materials simultaneously – but separately. The jars are used for cleaning with aggressive chemicals (acid or alkali) or when removing abrasive agents.

The *acid-resistant tank* is used when cleaning items with aggressive fluids (e.g. acids). It helps to maximise the effectiveness of the ultrasonic energy.

If used correctly, all Elma inserts will help to prevent damage to the ultrasonic tank and thus extend the service life of the ultrasonic cleaner.

Benefits.

- : Protects the ultrasonic tank
- : Allows items made of different materials to be cleaned simultaneously
- : Allows cleaning with aggressive fluids
- : Prolongs the service life of the appliance
- : Different inserts are available

Practical and safe.

Take advantage of the diverse, flexible and modular possibilities of Elma inserts. These accessories allow the user to combine various cleaning processes in a highly targeted manner.











CLEANING JARS

INSERT COVERS*

INSERT TANK

INSERT COVERS**

Cleaning jars

| Туре | 150 ml without plastic cover | 600 ml | 600 ml | 1000 ml |
|--------------------|---------------------------------|-----------------|-----------------|-----------------|
| Ext. dimensions* | 80 / 85 / 95 | 100 / 155 / 110 | 110 / 135 / 125 | 110 / 185 / 125 |
| Int. dim. of jar** | 50 / 60 | 75 / 145 | 80 / 105 | 85 / 160 |
| Rubber ring* | 70 | | 100 | |

^{*} Dimensions in m

Insert covers

| Туре | 30 | 80 | 100 | 120 | 60 | 150 | 180 | 300 |
|------------------|----|---------|---------|-----|----|---------|---------|-----|
| Ext. dimensions* | | 270 / 1 | 70 / 15 | | | 330 / 1 | 80 / 15 | |
| Rubber ring* | | | | 10 | 00 | | | |
| Elmasonic Easy | 1x | | 2x | 2x | 1x | | 2x | 3x |
| Elmasonic Med | 1x | | 2x | 2x | 1x | | 2x | 3x |
| Elmasonic Select | 1x | 2x | 2x | 2x | 1x | 3x | 2x | 3x |
| Elmasonic P | 1x | | | 2x | 1x | | 2x | 3x |

^{*} Dimensions in mm.

Insert tanks

| Туре | 30 | 60 | 100 | 120 | 180 | 300 | 500 |
|------------------|-----------------|----|-----------------|-----|-----------------|-----------------|-----------------|
| Ext. dimensions* | 300 / 200 / 115 | | 365 / 305 / 170 | | 390 / 370 / 215 | 570 / 365 / 215 | 530 / 325 / 205 |
| Working capacity | 1.3 | | 5.8 | | 11.0 | 19.0 | 18.3 |
| Elmasonic Easy | • | • | • | • | • | • | |
| Elmasonic Med | • | • | • | • | • | • | • |
| Elmasonic Select | • | • | • | • | • | • | • |
| Elmasonic P | • | • | | • | | • | |

^{*} Dimensions in mm.



 $[\]ensuremath{^*}$ Insert cover for operation without lid.

^{**} Insert cover for operation with lid.

^{**} Internal dimensions of jar in mm.



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