

WEK

METASYS Catalogue

EXCOM
hybrid

BR
SYSTEM

MST 1

ECO II+



Dental equipment & accessories | Disinfection & Hygiene
Disposal & Recycling



COMPANY PRESENTATION

Quality meets environmental awareness

For almost 40 years, METASYS Medizintechnik has stood for innovation and the highest quality in dental technology. With a clear focus on sustainable and future-oriented technologies, we set standards in dental practices worldwide.

Our product range comprises a variety of solutions, including amalgam separators, compressors, suction systems and systems for hygiene and water treatment. We also offer hygiene and disinfection products.

With our commitment to technological innovation and environmental awareness, we support dentists in assuming ecological responsibility. We create the perfect combination of technology, efficiency and sustainability - for the dentistry of tomorrow.

Our values

QUALITY

We have the highest standards when it comes to materials and workmanship and consciously work closely with regional companies in order to actively support the local economy in a targeted manner.

SUSTAINABILITY

Our commitment to the environment is reflected in every one of our products and processes. We value environmentally friendly actions and promote sustainable practices in all areas of our company.

TRADITION

As a family-run company, we have been firmly anchored in Tyrol for almost 40 years. Our focus is on customizing our products to meet the unique and specific requirements of our customers.

3 business divisions, 1 strong partner

DENTAL EQUIPMENT

and accessories

DISPOSAL

and recycling of dental waste

GREEN&CLEAN

Disinfection and hygiene



AMALGAM SEPARATORS

MST 1

SINGLE UNIT AMALGAM SEPARATION

Single unit amalgam separator with static air-water separation

- > separation rate: 98,6%
- > with integrated place selection valve
- > modular design
- > can be retrofitted into dental units of common manufacturers
- > also available with cover
- > cleaning of the complete unit is done via the suction line
- > MD class I, CE



COMPACT Dynamic

SINGLE UNIT AMALGAM SEPARATION

Single unit amalgam separator with dynamic air-water separation

- > separation rate: 96,4%
- > modular construction
- > with modern sensor technology, located outside the dirt area
- > reliable operation even with increased foam formation
- > with integrated place selection valve
- > cleaning of the complete unit is done via the suction line
- > can be retrofitted into dental units of common manufacturers
- > MD class I, CE



ECO II+

CENTRAL AMALGAM SEPARATION

ECO II+ / ECO II+ D: Central amalgam separator for 1 to 3 treatment units

ECO II+ Large / ECO II+ Tandem D: Central amalgam separator for 3 to 5 treatment units

- > separation rate: 99.38 % at 1 l/min, >95% at 2.7 l/min
- > simple and quick installation - plug & play
- > ideal for retrofitting semi-wet suction systems
- > no electronic components - maintenance free!
- > 1x annual container replacement
- > legally compliant version with expansion container available for Germany (ECO II+ D, ECO II+ Tandem D)



SUCTION SYSTEMS

EXCOM hybrid 1s | 1 | 2 | 5

CENTRAL DRY AND SEMI-WET SUCTION

Central suction systems, suitable for dry as well as semi-wet suction

- > maximal operational reliability thanks to effective water/air separation by means of a foam-resistant, centrifugal separation rotor
- > with frequency-controlled negative pressure regulation (EXCOM hybrid 5 only)
- > constant negative pressure at 180 mbar for EXCOM hybrid 1, 2 and 5 (120 mbar for EXCOM hybrid 1s)
- > space-saving design, reliable function even with large water volumes
- > long-term functional safety through: aluminum turbine wheel, continuous separation, airflow-optimizing cooling fins
- > for up to 15 dental units
- > MD class I, CE



EXCOM hybrid A1 | A2 | A5

Central suction systems EXCOM hybrid, combined with ECO II+, ECO II+ D or ECO II+ Tandem D amalgam separators



SUCTION & AMALGAM SEPARATION

VAC 1s

SINGLE UNIT DRY SUCTION

Dry suction system for 1 treatment unit

- > energy-saving and low noise vacuum supply
- > user-friendly and easy maintenance
- > excellent vacuum performance up to 140 mbar (60 Hz)
- > quiet operation at only 53 dB(A)



MST 1 ECO Light

SINGLE UNIT AIR/WATER SEPARATION

Single-unit air/water separator, suitable for dry as well as semi-wet suction systems

- > automatic single-unit air/water separation
- > integrated place selection valve
- > high serviceability thanks to modular design
- > can be retrofitted to any dental unit



COMPRESSORS

META Air

HYGIENIC COMPRESSED AIR

Compressors with powerful membrane dryer and double filter system down to 0.01 µm for absolutely hygienic compressed air

- > double filter system down to 0.01 µm
- > powerful membrane dryer for absolutely dry air
- > compressor technology ensures low-noise operation
- > maximum pressure up to 8 bar possible
- > double, amperometric and thermal, protection
- > antibacterial inner tank powder coating prevents corrosion of the compressed air tank
- > built-in hour meter allows precise definition of maintenance intervals
- > MD class IIa, CE 0425

META CAM

COMPRESSED AIR FOR CAD/CAM MILLING SYSTEMS

High-performance compressors for use with CAD/CAM milling systems with a working pressure of 8 up to 10 bar

- > specially designed for CAD/CAM milling systems to ensure a pressure range of 8 to 10 bar in continuous operation
- > also available with cover to ensure low-noise operation: Reduction of the noise level to up to 54 dB(A)
- > META CAM units are equipped with specific components to cope with the loads in the high-pressure range
- > MD class IIa, CE 0425



Convincing details and sophisticated technology

Filter system

Membrane dryer

Compressor technology

Powder coating

Operating hours counter

Thermal protection

WEK

WATER DECONTAMINATION

Water decontamination systems for the continuous disinfection of dental process water and water-bearing pipes, with effective protection against limescale accumulation

- > safe separation of the treatment unit's service water system from the public water supply
- > complies with EN 1717 guidelines (free fall section)
- > the materials used comply with DVGW guidelines (German Technical and Scientific Association for Gas and Water)
- > effective, continuous and non-toxic decontamination effect
- > automatic monitoring of the disinfectant dosage
- > protects the dental unit from lime deposits
- > high serviceability due to modular design
- > available as built-in version or with a cover
- > can be retrofitted to any dental unit
- > MD class I, CE



WEK Light

WATER DECONTAMINATION

Water decontamination systems for the continuous disinfection of dental process water and water-bearing pipes, with effective protection against limescale accumulation

- > effective, continuous and non-toxic decontamination effect
- > automatic monitoring of the disinfectant dosage
- > protects the dental unit from lime deposits
- > high serviceability due to modular design
- > available as built-in version or with a cover
- > can be retrofitted to any dental unit
- > MD class I, CE



BR System

BIOFILM REMOVAL

For introducing the product GREEN&CLEAN BR into the water-bearing pipes of treatment units to remove existing biofilm

- > easy to connect and handle (cleaning solution is automatically pumped into the respective dental unit)
- > short exposure time: ½ hour
- > Can only be used in combination with METASYS GREEN&CLEAN BR!
- > depending on the dental unit 500 to 1000 ml GREEN&CLEAN BR are needed
- > biodegradable according to EEC Directive 84/449
- > MD class I, CE



META TOWER

The complete solution

The META Tower is convincing in all its components:

- > compressed air, suction and amalgam separation compactly combined in one unit
- > space-saving for positioning in the smallest of spaces (0.36 m² footprint)
- > low-noise operation with only 54 dB(A) in an attractive housing

Compressed air

- > META Air compressors with membrane drying technology for the supply of hygienic compressed air

Suction

- > central semi-wet suction systems, EXCOM hybrid, with a negative pressure of 180 mbar

Amalgam separation

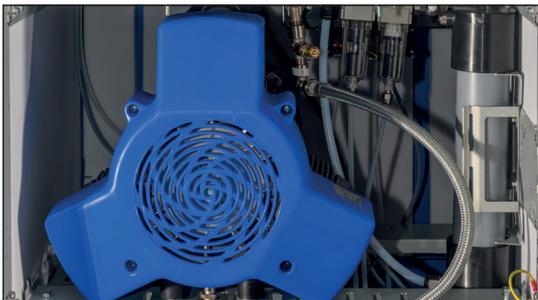
- > central, maintenance-free amalgam separation technology, sedimentation-based (ECO II+)



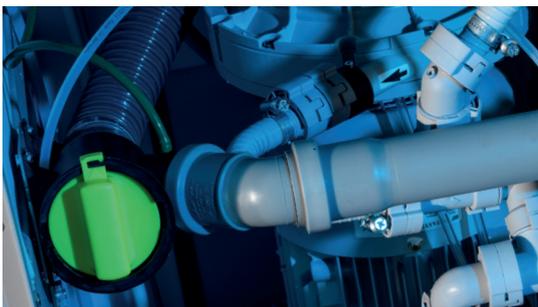
	META Tower 2	META Tower 5	META Tower A2	META Tower A5
Order no.	111000001 111000002	111000003 111000004	111000005 111000006	111000007 111000008
Number of units	up to 3 units	up to 5 units	up to 3 units	up to 5 units
Amalgam separator	none	none	with ECO II+ D	with ECO II+ Tandem D
Power supply	230 V/400 V	230 V/400 V	230 V/400 V	230 V/400 V

High-quality equipment for your practice

	META Tower 2	META Tower 5	META Tower A2	META Tower A5
	without amalgam separation		with amalgam separation	
Order no.	111000001 111000002	111000003 111000004	111000005 111000006	111000007 111000008
Dental units (100%)	2	3	2	3
Dental units (60%)	3	5	3	5
Amalgam separator	-	-	ECO II+ D	ECO II+ Tandem D
Power supply	230 V/400 V	230 V/400 V	230 V/400 V	230 V/400 V
Frequency	50 Hz*	50 Hz*	50 Hz*	50 Hz*
Flow rate (5 bar)	152 l/min	225 l/min	152 l/min	225 l/min
Pressure range	5-7 bar	5-7 bar	5-7 bar	5-7 bar
Sound level	53 dB(A)	54 dB(A)	53 dB(A)	54 dB(A)
Dimensions (H x W x D)	2120 x 600 x 600 mm	2120 x 600 x 600 mm	2120 x 600 x 600 mm	2120 x 600 x 600 mm
Weight	222 kg	224 kg	223 kg	225 kg



Compressor	META Tower 2 / A2	META Tower 5 / A5
Power supply	230 V	230 V
Frequency	50 Hz*	50 Hz*
Electric motor power	1,5 kW	2,2 kW
Flow rate	152 l/min	225 l/min
Tank capacity	30 l	30 l
Pressure range	5-7 bar	5-7 bar



Suction	META Tower 2 / A2	META Tower 5 / A5
Power supply	230 V AC	230 V AC
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Max. current consumption	6,7 A	9,0 / 10,0 A
Max. power consumption	1,1 / 1,3 kW	1,5 / 1,75 kW
Suction volume	1450 / 1750 l/min	2000 / 2400 l/min
Regulated vacuum range	180 mbar	180 mbar



Amalgam separator	ECO II+ D	ECO II+ Tandem D
Max. water flow rate	1 l/min	2 l/min
Separation rate	99,3 %	99,3 %
Collection container volume	700 cm ³	2 x 700 cm ³
Replacement interval per container	at least once a year, or when 100% full	

* also available with 60 Hz

GREEN&CLEAN IK

Disinfection of the spray water and spray air ducts of turbines, straight and contra-angle handpieces

GREEN&CLEAN WD

Alcohol-based surface disinfection for small surfaces, such as those of straight and contra-angle handpieces

GREEN&CLEAN WK | GREEN&CLEAN BR

GREEN&CLEAN WK - Solution for decontamination and protection against limescale deposits and biofilm

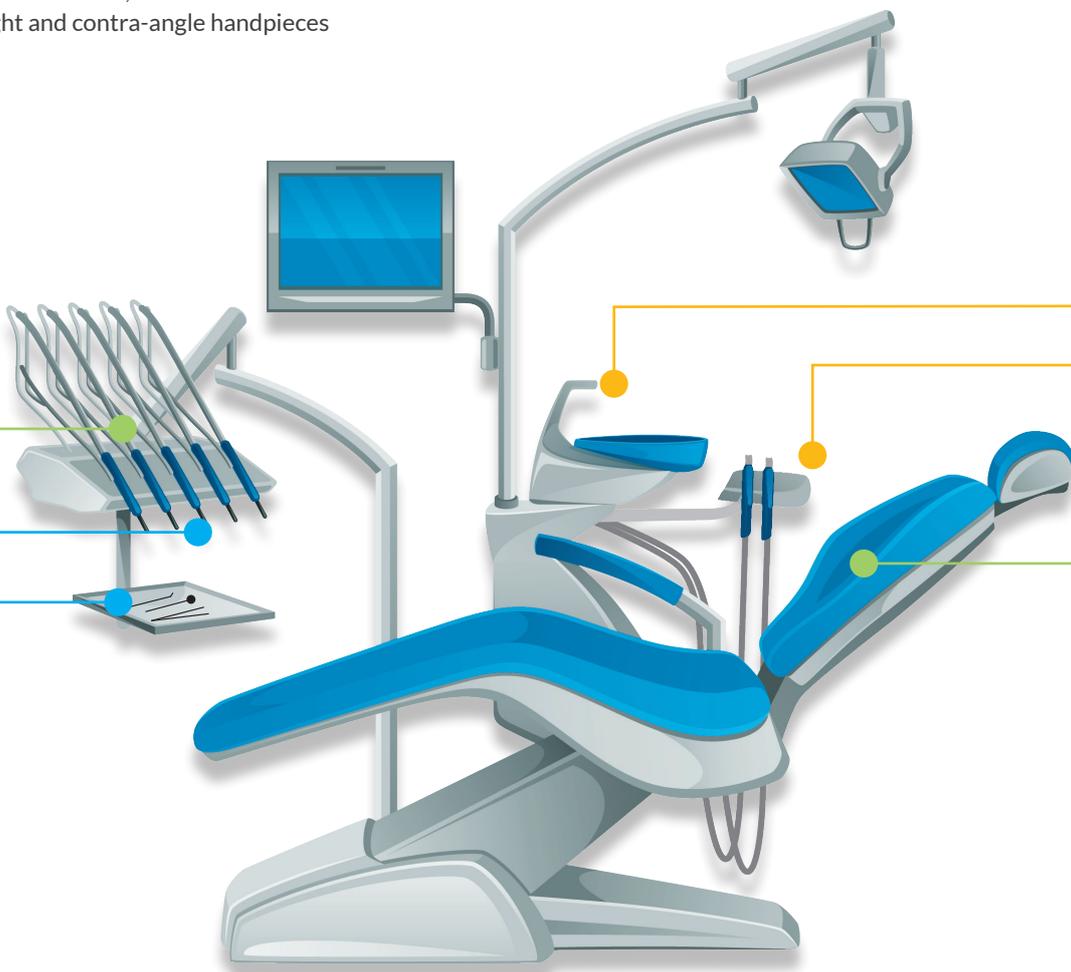
in water pipes

GREEN&CLEAN BR - Biofilm removal

GREEN&CLEAN M2 | GREEN&CLEAN CL N

GREEN&CLEAN M2 - Cleaning, disinfection and deodorization of suction systems and amalgam separators

GREEN&CLEAN CL N - Cleaning of suction systems



GREEN&CLEAN ID N

Disinfecting pre-cleaning of invasive and non-invasive instruments

GREEN&CLEAN MB | GREEN&CLEAN AD

GREEN&CLEAN MB - Spittoon cleaner

GREEN&CLEAN AD - Impression disinfection

GREEN&CLEAN SK | GREEN&CLEAN MK

Surface disinfection without alcohol for alcohol-sensitive surfaces

GREEN&CLEAN SD | GREEN&CLEAN MT

Alcohol-based surface disinfection for alcohol-insensitive surfaces

INSTRUMENTS

GREEN
& CLEAN

IK

DISINFECTION OF STRAIGHT & CONTRA-ANGLE HANDPIECES

Ready-to-use, alcohol-based disinfectant spray for the spray water and spray air channels of turbines, straight & contra-angle handpieces

- > short application time
- > increased application safety due to fixed adapters
- > one spray can is sufficient for approx. 300 applications with a spraying time of approx. 2 seconds
- > does not replace the oiling recommended by the manufacturer!
- > one universal adapter for all hand- & contra-angle couplings and own turbine couplings
- > MD class IIa, CE 0044



Modern combination of active ingredients

1-propanol, 2-propanol, 2-butanol, quaternary ammonium compounds

GREEN
& CLEAN

IDN

INSTRUMENT DISINFECTION

Highly effective concentrate for the disinfecting pre-cleaning of invasive and non-invasive instruments

- > 5 l concentrate yields up to 500 l working solution with 1% concentration
- > aldehyde and phenol free
- > alcohol free
- > standing time: 14 days
- > MD class IIa, CE 0044



Modern combination of active ingredients

Quaternary ammonium compounds, alkylamine, corrosion inhibitors



GREEN & CLEAN SD

SPRAY DISINFECTION FOR LARGE SURFACES

Alcohol-based spray disinfection for alcohol-insensitive surfaces of medical devices

- > short action time
- > ready-to-use disinfectant solution
- > formaldehyde-free
- > MD class IIa, CE 0044

Modern combination of active ingredients

Ethanol, 2-propanol, quaternary ammonium compounds, glyoxal



GREEN & CLEAN MT

WIPE DISINFECTION FOR LARGE SURFACES

Wipes for the alcohol-based wipe disinfection of alcohol-insensitive surfaces of medical devices

- > extra large wipes (290 x 270 mm), for use with GREEN&CLEAN SD, for wipe disinfection of large surfaces of medical devices



GREEN & CLEAN WD

WIPE DISINFECTION FOR SMALL SURFACES

Alcohol-based disinfectant wipes made of tear-resistant nonwoven for disinfecting surfaces of medical devices (e.g. outer surfaces of straight & contra-angle handpieces)

- > short action time
- > with hygienic safety seal
- > formaldehyde-free
- > MD class IIa, CE 0044

Modern combination of active ingredients

Ethanol, 2-propanol, quaternary ammonium compounds, glyoxal



GREEN & CLEAN SK

SPRAY DISINFECTION FOR LARGE SURFACES

Alcohol-free spray disinfection for alcohol-sensitive surfaces of medical devices

- > alcohol-free
- > short action time
- > ready-to-use disinfectant solution
- > aldehyde-, phenol- and phosphate-free
- > especially suitable for alcohol-sensitive surfaces of medical devices
- > MD class IIa, CE 0044



Modern combination of active ingredients
Quaternary ammonium compounds

GREEN & CLEAN MK

WIPE DISINFECTION FOR LARGE SURFACES

Wipes for the alcohol-free wipe disinfection of alcohol sensitive surfaces of medical devices

- > extra large wipes (290 x 270 mm), for use with GREEN&CLEAN SK, for wipe disinfection of large surfaces of medical devices



SUCTION

GREEN
& CLEAN

M2

SUCTION SYSTEM DISINFECTION

Dual, actively defoaming concentrate for the daily cleaning, disinfection and deodorization of suction systems and amalgam separators

- > dual system (red / green)
- > excellent active defoaming
- > easy handling through well-designed dispenser
- > enzymatic product with excellent protein solubility
- > ideal for all amalgam separators and air-water separators
- > MD class IIa, CE 0044

Modern combination of active ingredients

Alkylamine, quaternary ammonium compounds, enzymes



GREEN
& CLEAN

CLN

SUCTION SYSTEM CLEANING

Concentrate for daily cleaning of suction systems

- > improved defoaming due to modern combination of active ingredients
- > excellent protein dissolving power thanks to a special enzyme mixture
- > pH-neutral user solution
- > pleasant scent in the treatment rooms
- > easy dosing thanks to the double-neck bottle
- > MD class I, CE

Modern combination of active ingredients

Subtilisin, alkyl polyethylene glycol ether



Powder jet separator ECO Air+

for clean suction lines

against powder jet deposits

WATER DECONTAMINATION

GREEN
& CLEAN

BR

4% solution for the removal of biofilm from water-bearing pipes of the dental unit with the BR System or bottle systems

- > effective biofilm removal in only 30 minutes
- > recommended for the refurbishment of dental units as well as before the installation of a water disinfection system
- > easy application due to colored solution
- > MD class IIa, CE 0044

Active ingredient
Hydrogen peroxide

BIOFILM REMOVAL



GREEN
& CLEAN

WK

2% solution based on hydrogen peroxide for decontamination of process water and protection against lime deposits in the water-bearing lines in a dental unit

- > broad spectrum of action
- > prevention of lime deposits
- > also suitable for bottle systems
- > MD class IIa, CE 0044

Active ingredient
Hydrogen peroxide

WATER DECONTAMINATION



METASAN®

P

1.41% solution based on hydrogen peroxide, suitable for disinfection of the treatment water in Dentsply Sirona treatment units

- > continuous decontamination of the service water and the water-bearing lines
- > broad spectrum of efficacy
- > MD class IIa, CE 0044

Active ingredient
Hydrogen peroxide

WATER DECONTAMINATION



SPECIAL AREAS

GREEN
& CLEAN

H1

CLEANING OF THE H1 HYGIENE SYSTEM

Decontamination concentrate for the METASYS H1 Hygiene System

- > for the permanent cleaning of the entire suction system
- > active defoaming
- > MD class I, CE

Modern combination of active ingredients

Quaternary ammonium compounds, special tensides, enzymes



GREEN
& CLEAN

MB

SPITTOON CLEANING

Dispenser with integrated brush based on citric acid and enzymes for cleaning the spittoon

- > excellent protein dissolving power due to enzyme content
- > with special defoamer
- > MD class I, CE

Modern combination of active ingredients

Quaternary ammonium compounds, tensides, enzymes



GREEN
& CLEAN

AD

IMPRESSION DISINFECTION

Ready-to-use solution for the sustained immersion disinfection of prosthetic work, worn dentures and dental impressions

- > short reaction time
- > suitable for alginates, silicones, polyethers and polysulfide
- > high material compatibility
- > formaldehyde and phenol free
- > standing time: 7 days
- > MD class IIa, CE 0044

Modern combination of active ingredients

Quaternary ammonium compounds, alkylamine, tensides



APPLICATION AIDS

GREEN&CLEAN WK test strips

Application aids for GREEN&CLEAN WK

- > test strips for visual inspection of the functionality and effectiveness of the water decontamination system
- > the color scale on the test strip indicates the concentration of GREEN&CLEAN WK in the process water



Dosing aid for bottle systems

Application aids for GREEN&CLEAN WK

- > for the safe application of GREEN&CLEAN WK
- > suitable for GREEN&CLEAN WK 750 ml



Disinfection trays

With cover and drip tray

- > For smooth and flawless cleaning and disinfection of instruments, drills and impressions
- > Sieves with ergonomic handles make it easier to remove the disinfected items
- > Available versions:
Disinfection tray, 1.25 l
Bur disinfection box, 200 ml



DENTAL WASTE

Environmental protection is our core business!

Without proper waste disposal, even the best amalgam separator is useless!

The founders of METASYS recognized this back in the late 1980s. Since then, we have been taking care of the entire “disposal life” of amalgam waste - from the installation of the amalgam separator to the final disposal of the mercury it contains. Using state-of-the-art technology, we take care of the professional disposal of amalgam waste.

In the heart of the Tyrolean mountains, we guarantee the highest recycling, environmental and safety standards in our in-house recycling plant.



DENTAL PRACTICE

METASYS - The complete circle

METASYS offers dentists not only amalgam separation technologies, but also a globally organized amalgam waste collection and recycling system. This ensures that the amalgam residues from dental practices are properly collected and processed.

Together with our international network of disposal partners, we collect amalgam waste in more than 20 countries.

The collected amalgam waste is recycled by recovering the mercury it contains so that it can then be disposed of in an environmentally friendly manner.



VALUE CREATION PROCESS



RECYCLED MATERIAL

Reuse or disposal of recycled material



RECYCLING

Thermal treatment: Mercury
Chemical treatment: Raw materials

Worldwide collection centers

Get all information on our worldwide collection centers on www.metasys.com.

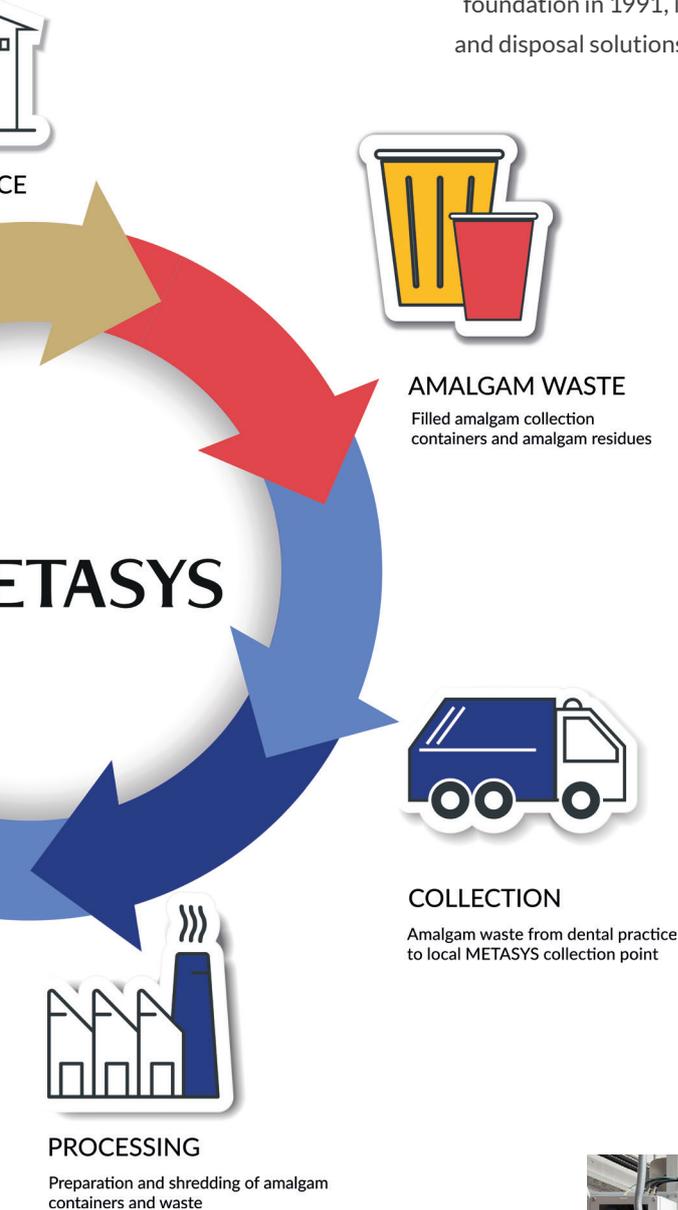
DISPOSAL & RECYCLING

METASYS logistics & collection GmbH

METASYS logistics & collection GmbH offers customized services for dental practices that meet their specific needs. In selected countries, the company handles the disposal of all dental waste and facilitates straightforward processing.

Every year, several tons of amalgam waste are delivered to the company's own recycling plant. Since its foundation in 1991, METASYS' core competence has been the development of individual collection and disposal solutions. This includes the collection of dental waste in Austria with its own driver and vehicle as well as cooperation with international disposal partners and the development of new markets.

Thanks to many years of experience, METASYS logistics & collection GmbH always finds suitable solutions for all requirements in the dental practice.



METASYS recycling & processing GmbH

The METASYS Group operates an amalgam processing plant on its premises under the management of METASYS recycling & processing GmbH. Using thermal and chemical separation processes, recyclable components are extracted from the waste and returned to the industry.

This recycling plant specializes in amalgam waste and has all the necessary permits.

On the market since 1987, METASYS recycling & processing GmbH has been operating a plant for recycling amalgam waste since 1993. With the recently renewed mercury recovery batch distiller, the process meets the latest technical standards and impresses with high environmental standards, low emissions and maximum occupational safety.



ABOUT US



Certified quality:
DIN EN ISO 13485

TUVNORD

EU-Quality Management System Certificate
Pursuant to Regulation (EU) 2017/745 on Medical Devices,
Annex IX, Chapters I and III

The Notified Body of TÜV NORD CERT GmbH certifies that the manufacturer:

Metasys Medizintechnik GmbH
Florianistr. 3
AT-6063 Rum bei Innsbruck
Austria

has established, documented and implemented a quality management system in accordance with Article 10, paragraph 9 of Regulation (EU) 2017/745 on medical devices. Details on device categories covered by the quality management system are described on the following page(s). The conformity assessment has been carried out and successfully completed in accordance with Annex IX, Chapters I and III. The result of the assessment, references to investigations carried out, relevant common specifications and test reports are summarized in the report mentioned below. The quality management system assessment was accompanied by the assessment of technical documentation for devices selected on a representative basis. The validity of this certificate is based on the maintenance of the quality management system in accordance with the requirements of the Regulation and its regular surveillance by the Notified Body in accordance with Annex IX, Chapter I, Section 3. The surveillance assessment shall also include an assessment of the technical documentation for the device or devices concerned on the basis of further representative samples.

In addition to the CE marking, the identification number of the Notified Body must be affixed to the devices.

For the placing on the market of class III and Class IIb implantable devices an additional EU technical documentation assessment certificate according to Annex IX, Chapter II is required.

Avoiding environmental damage caused by waste from daily work in dental practices worldwide was the main motivation for Bruno Pregonzer and Werner Trawöger to found a medical technology company under the brand name METASYS in the 1980s.

As an experienced dental technician, Bruno Pregonzer succeeded in developing an amalgam separator that is now used worldwide and forms the basis for the dental environment cycle (collecting, separating, recycling and reusing).

The protection of people, who can only live in a healthy environment, is the foundation of the company and therefore also its mission: Protect what you need.

METASYS is guided by the “Sustainable Development Goals (SDGs)” developed by the United Nations. Thus, METASYS makes an important contribution worldwide, especially for the four SDG areas “Health and Wellbeing”, “Clean Water and Sanitation”, “Climate Protection Measures” and “Life under Water and on Land”.

With the entire METASYS product range, starting from dental equipment and hygiene products to the collection, separation and recycling of toxic waste and the reuse of metals from dental practices, METASYS is one of the few companies in the world that can cover the entire dental environment cycle from a single source. For the professional realization of the mentioned agendas, three strategic business areas have been installed in the company: METASYS Medizintechnik, METASYS logistics & collection and METASYS recycling & processing.

METASYS already saw itself as a technology leader in the 1980s with the first amalgam separator, and thus fundamental technological achievements are a central brand building block of the company today and in the future.

METASYS protects what we humans need to live and develops products based on the latest technological standards. Bringing ecological necessities and the immense technological potential into harmony are the central challenges that METASYS has always faced and will continue to face with know-how and passion: Yesterday, today and tomorrow.

We are happy to be measured by this.

METASYS Medizintechnik GmbH

METASYS logistics & collection GmbH

METASYS recycling & processing GmbH

Florianistraße 3, 6063 Rum bei Innsbruck, Austria
T +43 512 205420

www.metasys.com | info@metasys.com

 **METASYS**
protect what you need

