

safety@work

Your DENIOS safety update

DENIOS.
ENVIRONMENTAL PROTECTION
& WORK SAFETY

bio.x - solvent-free parts cleaning

bio.x
A DENIOS BRAND



+44 1952 811 991 | www.denios.ie/shop

bio.x guarantees sustainable parts cleaning with the best results!

✓ **Efficient:**

Highly effective cleaning power thanks to proven, selected surfactants.

✓ **Economical:**

Long bath life.

✓ **Organic:**

Oils and fats are biodegraded.

✓ **Environmentally-friendly:**

Free from solvents, EDTA and toxins.

✓ **Safe:**

No risk of fire or explosion, no health risks for the user.

✓ **Simple:**

Problem-free storage and use.

✓ **Made in Germany:**

At DENIOS, you get everything from a single source: DENIOS develops and produces both the bio.x cleaning devices and their bio.x cleaning agents.

How bio.x works

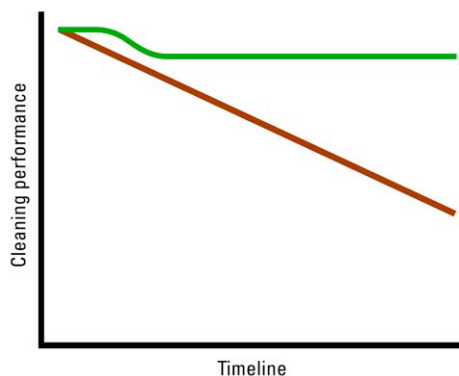
Natural microorganisms "eat" contaminants

The manual bio.x cleaning system consists of an electrically operated brush washstand and a biologically-based aqueous cleaning liquid, which is enriched with surfactants and microorganisms. The surfactants reliably remove machining oils, greases, cutting coolants, corrosion protection agents, particles of dirt, etc.

The microorganisms contained in the bio.x cleaner biodegrade the fats and oils and thus continuously clean the cleaning medium. In this way, cleaning performance remains consistently high and there is no need for regular changes of the bath.

The parts washstand keeps the liquid at an effective temperature of 41 °C. This is the optimum temperature for the cleaning process and for growth and activity of the microorganisms.

bio.x ensures effective, uniformly high cleaning power



Solvent regulation? It's no problem with bio.x!

Solvent-based cold cleaners have previously been frequently used for parts cleaning. However, these involve major risks: vapours from solvents endanger health, pollute the environment and can cause fires or explosions. Since August 2001, the Solvents regulation has therefore defined the requirements for surface cleaning facilities. System operators have to be able to prove that the specified limit for VOC emissions is complied with.

The bio.x cleaning table does not use any solvents and therefore helps avoid VOC emissions. Replace your solvent-based cold cleaner with the safe biological cleaner bio.x which is not subject to labelling requirements. Minimise the risks to your employees and company while meeting the high requirements of the Solvent regulation. We're happy to help!



bio.x

For environmentally-friendly parts cleaning

bio.x - VOC-free

bio.x biological cleaners are suitable for all common metals (including aluminium and brass), plastic, and painted and galvanised surfaces. They remove oils, light greases, cooling lubricants, corrosion protection products, dirt particles and many other types of contamination. Use bio.x to clean components when maintaining production facilities, to clean equipment and tools during repairs and maintenance or for cleaning custom parts in production.

The self-cleaning process of bio.x cleaners ensures their long service life. The residual film of cleaning agent also provides temporary protection against rust bloom.

- For all typical work processes in industry, workshop, maintenance and service environments
- Compatible with oil separators
- Can be rinsed off without residue
- Very good skin compatibility - dermatologically tested
- Fresh apple scent



bio.x ready-to-use solution

- NSF certified so suitable for food use
- Universal use, for everyday contamination
- pH-neutral



20 litre canister,
Order number 130-032-B1



Starter set
5 x 20 litre canisters,
Order number 130-030-B1



200 litre drum,
Order number 161-524-B1

bio.x Ultra

- Ultra formula for particularly high dirt and grease dissolving power, even with resinous grease
- Ideal for removing heavy contamination, corrosion protection waxes and other build-ups from your workpieces
- Ready-to-use solution
- Available in 20 litre canisters



20 litre canister,
Order number 194-745-B1

bio.x concentrate

- Ideal for individual dosing (a mixing ratio of 1:4 is recommended)
- Space-saving storage
- Ideally suited as a starter set for bio.x cleaning tables



Starter set 4 x 5 litre canisters,
Order number 187-606-B1



5 litre canister,
Order number 183-543-B1



bio.x B60

The entry-level model

The compact cleaning table for tight spaces and mobile applications

The bio.x B60 parts washstand is a compact unit with a new, attractive design for tight spaces and mobile use. The unit is simple to operate and also meets the ergonomic requirements for cleaning without posing a risk to the operator. Thanks to the integrated castors, which can be easily fitted if required, the manoeuvrable unit can be easily moved and used at different locations. With an optimised tank capacity of only 60 litres, the bio.x B60 is particularly economical.



- Also available as mobile version with castors
- Compact cleaning table for efficient and environmentally-friendly parts cleaning without solvents
- Modern design and technology at the highest level
- Especially energy efficient

Model	bio.x B60
Working height [mm]	870
Width, useful area [mm]	790
Depth, useful area [mm]	520
Overall load capacity [kg]	200
Cleaner fill volume [l]	60
External dimensions L x W x H [mm]	620 x 890 x 880
Operating temperature [°C]	41
Nominal voltage [V]	230
Order number for basic device	274-096-B1
Order number for complete set (consisting of device and initial fill of bio.x cleaner, equivalent to 60 l cleaning fluid)	274-097-B1
Accessories	
Set of castors	
Order number	274-103-B1
Lid	
Order number	274-098-B1
Perforated plate	
Order number	274-099-B1
Storage area	
Order number	274-105-B1

bio.x B60 accessories



Lid, order number 274-098-B1



Set of castors, Order number 274-103-B1



Perforated plate, Order number 274-099-B1

bio.x C100

The proven classic



Barrier-free working

The bio.x C100 parts washstand is the proven classic and impresses with its extraordinary stability and load-bearing capacity. Now there's a new design with optimised device technology. The spacious work surface enables barrier-free, comfortable working. The unit can easily be moved by pallet truck. The push-fit lid can be easily removed if, for example, parts suspended by crane need to be cleaned.

- Cleaning system for solvent free parts cleaning
- Especially energy efficient
- Ideal for the removal of oil and grease from metal and plastic parts

Model	bio.x C100
Working height [mm]	960
Width, useful area [mm]	950
Depth, useful area [mm]	600
Overall load capacity [kg]	250
Cleaner fill volume [l]	100
External dimensions L x W x H [mm]	770 x 1100 x 1010
Operating temperature [°C]	41
Nominal voltage [V]	230
Order number for basic device	274-084-B1
Order number for complete set (consisting of device, lid and initial fill of bio.x cleaner, equivalent to 100 l cleaning fluid)	274-092-B1
Accessories	
Lid	
Order number	274-093-B1
Perforated plate	
Order number	274-095-B1
Storage area	
Order number	274-104-B1



bio.x C100 accessories



Lid, order number 274-093-B1



Perforated plate, Order number 274-095-B1



bio.x C100 XL

Freely accessible from all sides

With extra large work surface for up to two users

The bio.x C100 XL parts washstand is unique in its size and stability. Especially large and bulky parts can be easily cleaned by one or two users at the same time. The barrier-free work surface guarantees maximum comfort and good accessibility from all sides.

NEW

- Two users can clean at the same time
- With extra large work surface for especially wide and heavy parts
- Especially stable and energy efficient
- Can be easily transported by pallet truck



bio.x C100 XL accessories



Perforated plate protects the work surface.
The stainless steel insert covers the complete work surface.
Order number 274-179-B1

Model	bio.x C100 XL
Working height [mm]	990
Width, useful area [mm]	1450
Depth, useful area [mm]	900
Overall load capacity [kg]	250
Cleaner fill volume [l]	100
External dimensions L x W x H [mm]	1050 x 1600 x 1025
Operating temperature [°C]	41
Nominal voltage [V]	230
Order number for basic device	274-177-B1
Order number for complete set (consisting of device and initial fill of bio.x cleaner, equivalent to 100 l cleaning fluid)	274-178-B1

bio.x A25

Small and mobile



A DENIOS innovation: the bio.x table-top unit

DENIOS has developed the smallest and most mobile cleaning device for biological and solvent-free parts cleaning: the bio.x A25 table-top unit. Thanks to its compact dimensions and low weight, it's ideal for a wide range of cleaning tasks in maintenance, production and workshops. The bio.x A25 is exceptionally economical and offers all the important basic functions for manual brush cleaning.

- Mobile table-top unit for workshops and departments with limited space
- Ideal for cleaning small parts, tools, gears, etc.
- Particularly compact, low maintenance and easy to transport

NEW



Model	bio.x A25
Working height [mm]	285
Width, useful area [mm]	440
Depth, useful area [mm]	300
Overall load capacity [kg]	50
Cleaner fill volume [l]	25
External dimensions L x W x H [mm]	560 x 520 x 405
Operating temperature [°C]	40
Order number for basic device	274-100-B1
Order number for complete set (incl. 5 litres of bio.x cleaner concentrate for initial fill)	274-240-B1



Denios maintenance service - advantages



"As advisors and partners, we are there for you"

From purchase advice to commissioning and maintenance of a DENIOS system - you can rely on us. Our technicians know all there is to know about DENIOS systems and will happily take over regular maintenance for you.

DENIOS is your partner and advisor, right by your side. That's what our "comprehensive, worry-free service" means.

More Infos:
www.denios.co.uk

There's more than one reason to choose service and maintenance direct from the manufacturer.

- **Save** yourself expensive repairs with regular service intervals.
- **Minimise** the risk of your products failing and ensure they last.
- **You'll never miss an appointment again!** With an agreed service contract we'll automatically book your annual safety inspection.
- **Enjoy 100% safety** for your employees, your company and the environment.

See what our "comprehensive, worry-free service" for bio.x cleaning tables can do for you

- Insulation test
- Functional inspection of components
- Safety inspection of all functions, replacement of faulty components if necessary
- Draining and refilling the tank
- Visual inspection for damage and defects
- Incl. test sticker and test report



bio.x - biological, solvent-free parts cleaning.

www.denios.ie/bio-x

Accessories - add to your order today!



Dispensing pumps for aqueous liquids, with three adapters (flexible seals) for bung diameter (inner) 49.5 to 60 mm and a 4 part intake pipe (immersion pipe length 950 mm)

Order number 129-355-B1



Dispensing taps for plastic containers

- For 5 litre canisters, Order number 123-555-B1
- For 20 litre canisters, Order number 117-296-B1



Lid opener, suitable for 3/4" and 2" bung lids as well as plastic lids DIN 51 and DIN 61, Order number 117-253-B1



SpillGuard® leak detection system for ATEX Zone 0, Order no. 271-433-B1

ESSENTIAL



DENSORB® Universal absorbent material, fleece cloths, Economy Triple, light, 3-layer, 40 x 50 cm, 100 units, Order no. 248-913-B1



Contents B 12:

100 mats
50 x 40 cm;
7 socks
120 x 7.5 cm;
10 cushions
25 x 25 cm;
1 goggles with elastic strap;
1 pair protective gloves;
5 disposal bags

DENSORB emergency spill kit, Universal version, Order number 157-333-B1

GREAT PRICE



Robust industrial wipes, brown, 2-ply, Pack = 2 rolls x 480 m, width = 24 cm Order number 248-316-B1



Angled wash brush, suitable for all bio.x units, prevents fatigue. Order number 172-560-B1



FI residual current device adapter (plug adapter), protection plug, e.g. for bio.x cleaning equipment. Order number 177-335-B1



PLUM moist cleaning cloths Rub & Scrub, solvent-free, 6 dispenser boxes x 75 cloths, Order number 273-345-B1



bio.x Protect, corrosion protection additive for grey cast iron, iron and steel, 5 litres of concentrate, Order number 267-678-B1



Liquid vacuum cleaner SV 6.4, for mounting on a steel bung hole drum (optionally available) Order number 123-223-B1



YOUR CUSTOMER BENEFITS at a glance



Huge selection:

- Customised, safe, certified.



10-year warranty:

If you have any trouble, we're always happy to help.



Cutting-edge production processes for guaranteed quality



Delivery free to door:

- No hidden costs
- Transparency and planning security for your purchase



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Online shop & e-procurement

www.denios.de/shop

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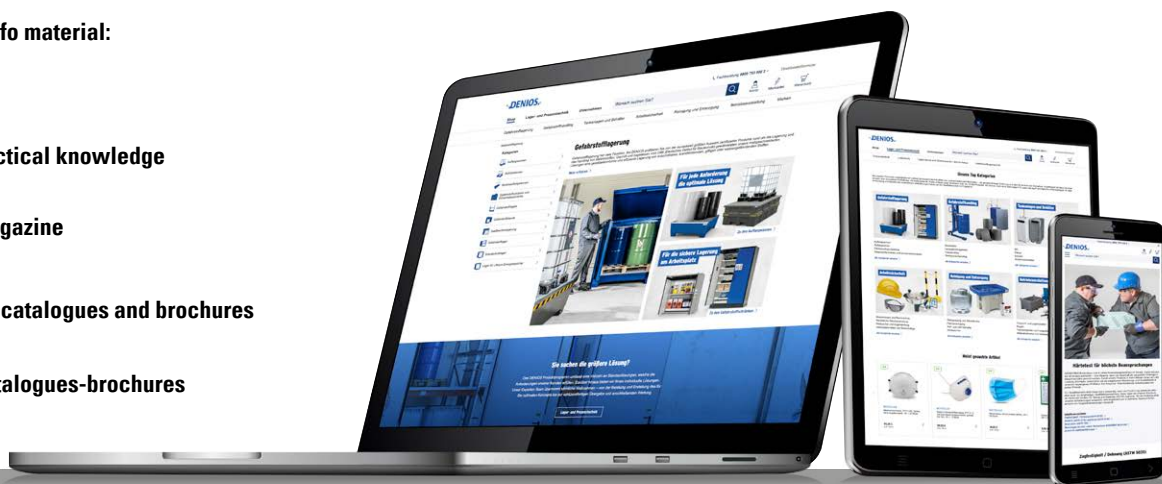


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With 15 years of experience in online business, DENIOS AG is the professional partner for big clients. Or to put it another way: e-procurement comes as standard, in 14 languages, with more than 200 active electronic catalogues and over 14,000 items. As a developer and manufacturer, we offer the largest range in the field of safety-relevant business equipment and work safety.

You too can benefit from this automated digital service. E-procurement simplifies handling from ordering to delivery and reduces admin and process costs. A digital, customised catalogue is imported into your ERP system. This saves you time and money, and allows you to benefit from fixed conditions, budget control and maximum transparency. And the reduced paper output helps to protect the environment, too.

Purchasing advantages:

- Exclusive conditions
- Framework agreements
- Budget and product control
- Maximum transparency

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DENIOS Ltd.
Nova House Suite 1
Audley Ave Enterprise Park
Newport
Shropshire
TF10 7DW

Sales Order +44 1952 811 991
E-mail info@denios.co.uk

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