



CLEANING AND DISPOSAL

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CLEANING AND DISPOSAL

Keep order

Order and cleanliness mean safety in everyday operations. In addition to products for safe waste collection and legally-compliant disposal, the DENIOS brands bio.x and DENSORB® offer specially developed sustainable solutions for parts cleaning.

472 bio.x solvent-free parts cleaning



490 Liquid vacuum cleaners, oil tape skimmers and safety vacuum cleaners



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NEW PRODUCTS FOR 2024

Safety throughout the year - with numerous new solutions and services, and new products from the DENIOS world! Here's an overview of the highlights in this chapter.

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Ultrasonic cleaning units Elmasonic Easy



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Waste oil collection equipment



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Used battery collection box



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bio.x - biological, solvent-free parts cleaning

Solvent-based cold cleaners are often used for cleaning workpieces, machine parts or small parts. However, these harbour considerable risks for humans and the environment. They are released into the environment by evaporation or splashing, and are absorbed through the skin or respiratory tract. In addition, there is a risk of fire and explosion. With the bio.x cleaning system developed by DENIOS, there is no need to use harmful solvents - while still guaranteeing the best cleaning results. bio.x includes bio.x parts washers and bio.x cleaning agents for solvent-free parts cleaning. They have a gentle yet highly effective cleaning action.



bio.x cleaners - the biological solvent-free cleaning agents

Thanks to powerful surfactants and a high concentration of resistant natural microorganisms, the solvent-free bio.x cleaners demonstrate a high grease-dissolving ability, reliability and long service life when cleaning small parts. The gentle bio.x cleaners are environmentally friendly, biodegradable, dermatologically tested and very skin-friendly.



Sustainable

Oils and fats are biodegraded. bio.x is absolutely free of harmful solvents, EDTA and toxins.



Safe

No risks to the health of the user. No explosion or fire hazard. Very good skin tolerance.



Efficient

bio.x is universally applicable with highly effective cleaning power thanks to proven, selected surfactants.



Economical

Due to continuous self-cleaning, long service lives with consistently high effectiveness are possible.

bio.x for user protection and a better solvent balance

bio.x completely avoids the use of harmful solvents and thus helps you to protect the health of your employees and to improve your solvent balance. Furthermore, you fulfil the substitution requirement. "Employers must take care to avoid or at least minimise health, fire and explosion hazards when selecting the cleaning process, cleaning agents, cleaning fluids and cleaning equipment as part of the risk assessment. In particular, the substitution test in accordance with the German Hazardous Substances Regulation must be taken into account. The outcome of the substitution must be documented."



Satisfaction guarantee - Buy without risk!

If you are not satisfied with the bio.x parts washer, we will take it back and refund the purchase price. It's that simple*:

- Contact our customer service and cancel the purchase within 30 days of receipt of the goods.
- Return the goods within 14 days after receipt of the notice of cancellation.
- Money back within 14 days.

*according to §7 of our Terms and Conditions



Environmentally-friendly parts cleaning with bio.x

The 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. The natural micro-organisms break down deposits of oils and greases and therefore extend the cleaning bath life. bio.x cleaners are not subject to the solvent regulations, are solvent free (VOC free), skin-friendly and environmentally-friendly.



- Bio cleaner as a ready to use solution for removing oils, greases, cooling agents etc. From metal parts
- Cleans using natural biological processes
- Not subject to solvent regulations
- Compatible with oil separators

- No special safety measures required
- The special micro-organisms break down oils and fats, ensuring that the cleaning fluid can be used for longer while maintaining a high cleaning performance
- Fresh apple scent

Ready-to-use fluid for bio.x

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



Set for initial filling
5 x 20 litre canister

Order no. 130-030-JB



200-litre drum

Order no. 161-524-JB



20 litre canister

Order no. 130-032-JB

Parts cleaner fluid for bio.x

- Ideal for individual dosing (a mixing ratio of 1:4 is recommended)
- Space-saving storage



5 litre canister (concentrate)

Order no. 183-543-JB

Parts cleaner fluid for bio.x

- Ready-to-use solution - even stronger and even faster, because the highly effective ultra formula removes even the strongest contaminants, anti-corrosion waxes and other adhesions from your workpieces in the shortest possible time.
- Optimised degreasing, even for resinous grease
- Strongest dirt-removing power
- Available in 20 litre canisters



20 litre canister

Order no. 194-745-JB

bio.x Power Up

Increases the cleaning action of the bio.x cleaner.

- Can be added to the cleaning bath if necessary when especially heavily contaminated parts are to be cleaned.
- Suitable for all bio.x cleaners.
- The contents of the 5 litre canister are enough for one bath.
- Mildly alkaline, VOC free



5 litre canister (concentrate)

Order no. 267-681-JB

bio.x Protect

Mild alkali corrosion inhibitor.

- Can be added to the cleaning bath as needed if a temporary increase in corrosion protection is required.
- For corrosion-prone grey cast iron, iron and steel.
- Very efficient concentrate: One litre of bio.x Protect is sufficient for 100 litre of bio.x cleaning fluid.



5 litre canister (concentrate)

Order no. 267-678-JB

Design	Containers	Order number
Ready-to-use fluid for bio.x	20 litre canister	130-032-JB
Ready-to-use fluid for bio.x	Set for initial filling 5 x 20 litre canister	130-030-JB
Ready-to-use fluid for bio.x	200-litre drum	161-524-JB
Parts cleaner fluid as concentrate	5 litre canister (concentrate)	183-543-JB
Parts cleaner fluid as concentrate	Set for initial filling (concentrate)4 x 5 litre canister	187-606-JB
Bio cleaner ultra as a ready to use solution	20 litre canister	194-745-JB
bio.x Protect	5 litre canister (concentrate)	267-678-JB
bio.x Power Up	5 litre canister (concentrate)	267-681-JB

Cleaning table bio.x B60 with roller set (optional accessory)

Optional accessories: The castor set includes swivel castors and brakes and guarantees maximum mobility and easy manoeuvrability.

Order no. 274-103-JB



bio.x B60

The bio.x B60 parts washstand from DENIOS is a compact unit with a new, attractive design for tight spaces and mobile use. The unit is simple to operate and meets the requirements for safe cleaning without solvents. With integral castors (optional accessory), the manoeuvrable unit can be easily moved and used at different locations.

Model	bio.x B60
Work surface height [mm]	870
Width, useful area [mm]	790
Useful area depth [mm]	520
Overall load capacity [kg]	200
Cleaner filling amount [l]	60
External dimensions L x W x H [mm]	620 x 890 x 880
Operating temperature [°C]	41
Order number Base unit	274-096-JB
Order number Complete set (consisting of device, lid and initial filling of bio.x cleaner, equivalent to 60 l cleaning fluid)	274-097-JB
Accessories	
Lid	
Order number	274-098-JB
Set of castors	
Order number	274-103-JB
Perforated plate insert to protect the work surface	
Order number	274-099-JB

bio.x A25

DENIOS has developed the smallest and most mobile cleaning device for biological and solvent-free parts cleaning as a table-top unit. Thanks to its compact dimensions and low weight, it can be used for a wide range of cleaning tasks in maintenance, production and workshops at various locations and is unusually economical.



Model	bio.x A25
Work surface height [mm]	300
Width, useful area [mm]	370
Useful area depth [mm]	410
Overall load capacity [kg]	50
Cleaner filling amount [l]	25
Operating temperature [°C]	41
Order number Base unit	282-183-JB
Order number Complete set (incl. 5 litres of bio.x cleaner concentrate for initial filling)	274-240-JB

1 Stubborn dirt can be removed using the robust flow-through brush.

2 All electronic components of the device are combined in a compact technical unit.

3 Multi-stage filter system consisting of coarse strainer, fine strainer and magnet.

4 Double walled cleaning tank for optimum stability and heat insulation.

5 The submersible pump is switched on and off using the user-friendly control system.

6 The powerful heating system heats the cleaning bath to a pleasant 41 °C and thus ensures optimal washing power of the aqueous cleaner.

7 A washable filter bag (fineness: 100 µm) retains the finest contamination before it reaches the bath.

8 Recessed grips make it easier to lift and transport the device.

bio.x C100

The sturdy bio.x C100 cleaning table from DENIOS combines modern design with maximum functionality and stable construction. The user-friendly device guarantees efficient cleaning by brushing, spraying or soaking in a spacious and barrier-free washbasin.

Model	bio.x C100
Work surface height [mm]	960
Width, useful area [mm]	950
Useful area depth [mm]	600
Overall load capacity [kg]	250
Cleaner filling amount [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 Base unit	274-084-JB
Order number Complete set (consisting of device, lid and initial filling of bio.x cleaner, equivalent to 100 l cleaning fluid)	274-092-JB
Lid	
Order number	274-093-JB
Perforated plate insert to protect the work surface	
Order number	274-095-JB



bio.x C100 XL

The bio.x C100 XL cleaning table 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.

Model	bio.x C100 XL
Work surface height [mm]	990
Width, useful area [mm]	1450
Useful area depth [mm]	900
Overall load capacity [kg]	250
Cleaner filling amount [l]	100
External dimensions L x W x H [mm]	1050 x 1600 x 1060
Operating temperature [°C]	41
Nominal voltage [V]	230
Order number Base unit	274-177-JB
Order number Complete set (consisting of device, lid and initial filling of bio.x cleaner, equivalent to 100 l cleaning fluid)	274-178-JB



- 1** With a flow-through brush on an extra long hose for convenient brushing of dirty parts.
- 2** A functional control system guarantees energy savings of approx. 50 % when the energy-saving mode has been selected.
- 3** With two flow-through brushes on extra long hoses for convenient brushing of dirty parts.
- 4** Double walled cleaning tank for optimum stability and heat insulation.

- 5** Multi-stage filter system consisting of coarse strainer, fine strainer and magnet. In addition, a washable filter bag (fineness: 100 µm) retains the finest contamination before it reaches the bath.
- 6** The workpieces are rinsed by a nozzle. The nozzle can be fixed in the required position by the flexible hose.
- 7** The large work surface enables comfortable cleaning of wide and heavy parts.

Ultrasound cleaning equipment Elmasonic Select

- The powerful and versatile Elmasonic Select ultrasonic cleaners have a frequency of 37 kHz, 5 ultrasonic modes and the possibility of storing up to 4 cleaning programmes.
- Practical, configurable functions such as the limit temperature (40-60 °C) for temperature-sensitive processes and parts, the auto-degas mode for automatic degassing and the auto-start mode for automatic heating of the cleaning fluid before cleaning
- Five ultrasonic cleaning modes for best cleaning results and easy sample preparation:
 - Degas: fast degassing of freshly prepared cleaning solutions and of (HPLC) samples.
 - Eco: for gentle cleaning with quiet operation ensuring a longer unit lifetime
 - Sweep: even distribution of ultrasonic power for most cleaning tasks
 - Pulse: removes stubborn contamination with a pulsating sound field distribution
 - Dynamic: combines the pulse and sweep ultrasonic modes to increase the overall cleaning performance
- Audible and visible feedback on operating status e.g. at the end of cleaning or overtemperature
- Diverse areas of application:
 - Industry: industrial components and parts such as filters, carburettors, circuit boards.
 - Laboratory: laboratory instruments, cylinders, pipettes, spatulas, sieves, etc.
 - Cleaning of watches and jewellery



Clear, easy-to-read display showing all relevant cleaning parameters such as remaining cleaning time and target/actual temperature for precise setting

Model	Select 30	Select 40	Select 60	Select 100	Select 120	Select 150	Select 180	Select 300	Select 500	Select 900
Capacity [l]	2	3	5	7	10	9	15	22	41	64
Basin width [mm]	220	215	275	280	300	485	300	475	500	600
Basin depth [mm]	120	115	125	220	215	280	370	270	330	500
Basin height [mm]	95	145	145	145	195	95	195	195	290	285
Power consumption total [W]	320	320	550	550	1000	1100	1000	1500	2140	2960
Heating capacity [W]	200	200	400	400	800	800	800	1200	1600	2000
Maximum loading [kg]	1	3	5	6	7	7	8	10	20	30
Order number	286-312-JB	286-313-JB	286-314-JB	286-316-JB	286-317-JB	286-318-JB	286-319-JB	286-320-JB	286-321-JB	286-322-JB
Accessories										
Order number Stainless steel basket	306-409-JB	306-410-JB	306-411-JB	306-412-JB	306-413-JB	306-414-JB	306-415-JB	306-416-JB	287-263-JB	179-219-JB

Ultrasound cleaners A4

- Alkaline, universally-applicable cleaning concentrate for laboratory and workshop
- Removes cooling lubricant emulsions, lapping and polishing agent residues, oils, greases, combustion residues, soot, dust and fingerprints
- Demulsifying with most mineral oils and fats
- Suitable for stainless steel, aluminium, light metals, brass, non-ferrous and precious metals, nickel, zinc, quartz, glass, ceramics, plastic and rubber
- Dose: 2 – 5 % in water



Ultrasound cleaners S1

- Liquid, weakly acidic cleaning concentrate for non-ferrous metals, aluminium, brass, stainless steel, glass and plastics
- Also suitable for passivation of stainless and chrome alloy steels. The passivation effect on chromium-containing steels is based on the dissolution of iron atoms from the surface, so that the relative chromium content increases.
- Removes mineral greases and oils, oxide coatings (e.g. verdigris) as well as rust and limescale
- For decalcifying and removing rust as well as for brightening and restoring non-ferrous metals



Model	A4		S1	
Contents of one pack	2.5 litre	10 litres	2.5 litre	10 litres
Order number	179-235-JB	179-236-JB	179-229-JB	179-230-JB



Ultrasonic cleaning units Elmasonic Easy

NEW

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CLEANING AND DISPOSAL

- The user-friendly and energy-efficient ultrasonic cleaning units of the Elmasonic Easy series are suitable for many applications in metalworking companies, laboratories, workshops, studios and in industrial component cleaning. They are also ideal for new users.
- When used with the appropriate cleaning chemistry, oils and greases, resin, adhesive residues, grinding and polishing pastes, chips, fluxes and organic contaminants can be removed.
- Clear and intuitive control panel: easy setting of cleaning time and temperature, switching the cleaning process on and off and changing the ultrasound modes. The unit gives visible and audible signals when the cleaning time and temperature are reached and if there is an error.
- Two ultrasound modes:
 - Eco mode: quieter and gentle cleaning, prolongs the life of the bath.
 - Dynamic mode: optimised sound field distribution in the cleaning bath for the most stubborn dirt.



The Elmasonic Easy series is a powerful all-rounder for beginners and is characterised by simple and intuitive operation.

Design	Easy 10	Easy 20	Easy 10 H	Easy 20 H	Easy 30 H	Easy 40 H	Easy 60 H	Easy 100 H	Easy 120 H	Easy 180 H	Easy 300 H
Total volume [l]	1	2	1	2	3	4	6	10	13	18	28
Basin width [mm]	185	140	185	140	220	215	280	280	275	300	475
Basin depth [mm]	80	125	80	125	120	115	130	220	215	270	270
Basin height [mm]	55	95	55	95	95	145	145	145	195	195	195
Output [W]	30	35	90	155	280	320	550	550	1000	1000	1500
Heating capacity [W]	-	-	60	120	200	200	400	400	800	800	1200
Order number	286-325-JB	286-326-JB	286-327-JB	286-328-JB	286-329-JB	286-330-JB	286-331-JB	286-332-JB	286-333-JB	286-334-JB	286-335-JB
Accessories											
Order number Stainless steel basket	306-407-JB	306-408-JB	306-407-JB	306-408-JB	306-409-JB	306-410-JB	306-411-JB	306-412-JB	306-413-JB	306-415-JB	306-416-JB

Drying unit Elma Dry

- With cold and warm air flows (70°C), also suitable for careful drying of sensitive workpieces
- Cold air mode can be used to bring parts down to room temperature quickly
- Safe for the user and saves material thanks to safety cut out when the limit temperature is reached
- A perforated silicon mat (accessory) can be laid in the basket to prevent the parts to be dried from being scratched

After cleaning in the ultrasound tank, the cleaned parts are easily and conveniently dried in the stainless steel basket in the Elma Dry.



Model	Elma Dry 30	Elma Dry 120	Elma Dry 300
External dimensions W x D x H [mm]	300 x 186 x 219	362 x 285 x 322	568 x 347 x 322
Basin dimensions W x D x H [mm]	220 x 120 x 95	275 x 215 x 195	475 x 270 x 195
Maximum loading [kg]	1	7	12
Power consumption total [W]	500	570	1140
Heating capacity [W]	480	550	1100
Maximum air supply [m³/h]	160	160	320
Order number	259-649-JB	259-650-JB	259-651-JB
Accessories			
Stainless steel basket	306-409-JB	306-413-JB	306-416-JB
Silicon mat	259-652-JB	259-653-JB	259-653-JB

Parts cleaning equipment, for many applications

- System parts cleaner in sturdy sheet steel design, painted
- For the manual cleaning of greasy components in metal and plastic
- Ideal for all repair workshops

Parts cleaner, model F2



Portable parts cleaner F2 for use at various locations, connection for 50 litre drum (without cleaning fluid)

Order no. 117-512-JB

Parts cleaner, model G50-I



With closed design with increased load capacity, for cleaning bulky parts in a small space, connection for a 50 litre drum

Order no. 259-449-JB

Parts cleaner, model BK50



Parts cleaner BK50 - painted, light sheet steel construction for flexible workshop use, with connection for 50 litre drum (without cleaning fluid)

Order no. 148-469-JB



Model	F2, mobile	G50-I	Bk50
Equipment	Connection for 50 litre drum		
Work surface height [mm]	920	895	820
Width, useful area [mm]	790	790	646
Useful area depth [mm]	490	490	485
Overall load capacity [kg]	100	150	50
External dimensions L x W x H [mm]	800 x 671 x 1125	500 x 800 x 1100	656 x 475 x 1005
Nominal voltage [V]	230	230	230
Order number	117-512-JB	259-449-JB	148-469-JB
Accessories	-	-	Spill pallet
Order number	-	-	117-511-JB

Detergent

- Excellent cleaning action
- For commercial use as a solvent for industrial parts cleaning and surface degreasing
- The cleaning fluid is subject to regular and rigorous controls by independent research institutes, guaranteeing the best quality
- Aromatic-free cold cleaner to meet the most stringent requirements, hydrocarbon-based
- Suitable for all surfaces
- Not classified in accordance with the Industrial safety regulation



Replacing the cleaning fluid: there are no prescribed replacement intervals. Professional associations recommend at least one drum change per year however.

Cleaner	Rf	EI	Purgasol
Order number 50 l	117-505-JB	117-507-JB	259-447-JB
Order number 200 l	117-506-JB	117-508-JB	259-448-JB



- Patented, self priming circulation pump, maintenance free
- Area of application: industrial parts cleaning and surface degreasing, maintenance of production equipment, pumps, motors and other machine parts

Parts cleaner, model KP



Parts cleaner KP for cleaning small items, compact design, work area protected on 3 sides, connection for 205 litre drum (without cleaning fluid)

Order no. 148-465-JB

Parts cleaner, model K



Parts cleaner K for cleaning small items, connection for 205 litre drum

Order no. 117-500-JB

Parts cleaner, model M



Parts cleaner M for cleaning large items, connection for 205 litre drum with bung on the side (without sump and detergent)

Order no. 117-492-JB

Parts cleaner model MD



Parts cleaner MD, has the same features as model M, but also has a lid

Order no. 117-491-JB

Model	KP	K	M	MD
Equipment		Connection for 205 litre drum		
Work surface height [mm]	920	922	870	870
Width, useful area [mm]	790	790	1135	1135
Useful area depth [mm]	540	540	660	660
Overall load capacity [kg]	80	80	250	250
External dimensions L x W x H [mm]	800 x 550 x 265	800 x 550 x 525	1145 x 670 x 1050	1165 x 695 x 1055
Nominal voltage [V]	230	230	230	230
Order number	148-465-JB	117-500-JB	117-492-JB	117-491-JB
Accessories		Spill pallet		
Order number	117-510-JB	117-510-JB	117-509-JB	117-509-JB

Benefits of model RF:

- Slow, uniform evaporation, giving intensive penetration of the contaminated surfaces, evaporation number VZ 550 (ether = 1)
- Slight smell, dearomatised
- Regreasing, no metal corrosion, with temporary corrosion protection depending on application

Benefits of model EL:

- Fast, residue-free evaporation for quick further processing of the items to be cleaned, evaporation number VZ 90 (ether = 1)
- Almost odour free (slight odour), extremely dearomatised
- Does not promote corrosion
- Suitable for applications in the food industry, with NSF K1 listing, NSF registration number: 145694

Benefits of type Purgasol:

- Quick, uniform evaporation, evaporation number EN 212 (ether = 1)
- Mild, typical odour
- Regreasing, no metal corrosion, with temporary corrosion protection depending on application

BESTSELLERS

FALCON parts cleaner with dip tank

- For cleaning larger parts safely and conveniently at work surface height
- Also suitable for placing smaller open containers in the tank
- Lid is easily opened using the foot pedal
- Equipped with gas pressure spring and stainless steel dispensing tap
- The gas spring ensures the lid closes slowly which minimises the risk of catching fingers
- Lid and basin in stainless steel 1.4301 (V2A)
- Good resistance even to contaminated liquids
- Sheet steel base frame as liquid-tight drip sump



The lid is opened by pressing the foot pedal. The lid closes automatically when the foot pedal is released. A gas spring ensures the lid closes slowly, minimising the risk of catching fingers.



ORDER AT THE SAME TIME

Stainless steel parts basket



Stainless steel parts basket, external dimensions w x d x h [mm] 400 x 280 x 90

Strainer in stainless steel



A removable strainer, which fits the dimensions of the dip tank is available as an option.

Capacity [l]	45	60	105
Body dimensions W x D x H [mm]	680 x 650 x 930	680 x 650 x 950	990 x 650 x 950
Order number	117-268-JB	156-554-JB	156-553-JB
Accessories			
Order number Sieve	117-270-JB	156-592-JB	156-591-JB
Order number Parts basket	117-269-JB	117-269-JB	117-269-JB



FALCON small parts cleaners - 2 to 8 litres

- High quality containers, either in galvanised steel with coating in safety yellow or stainless steel
- Ideal for cleaning or degreasing small parts
- Integrated recessed handles for easy and safe transport of the container
- 2 and 4 litre versions with spring-operated immersion strainer (also serves as flame arrestor) for targeted wetting of the parts to be cleaned - also ideal for small parts, such as screws etc., thanks to the optimised perforation and raised rim
- 8 litre version - in the event of fire, the lid closes automatically thanks to the integrated fusible link
- With earthing connection as standard, also suitable for Quick Connect earthing cable 283-933



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CLEANING AND DISPOSAL



ORDER AT THE SAME TIME

Quick-Connect earthing cable



Order no. 283-933-JB

Stainless steel parts basket



Order no. 282-410-JB



Spring operated immersion strainer also serves as flame arrestor (2 and 4 litre versions)



Earthing connection suitable for Quick-Connect earthing cable



Self-closing lid with integrated fusible link (8 litre version)



8 litre small parts cleaner with integral parts basket (available as an accessory)



Volume [l]	2	4	8
Features	With immersion strainer	With immersion strainer	Optionally with parts basket
Dimensions Ø x H [mm]	264 x 102	264 x 152	255 x 262
Order number Steel	282-404-JB	282-405-JB	-
Order number Stainless steel	282-407-JB	282-408-JB	282-409-JB
Accessories			
Order number Quick-Connect earthing cable	283-933-JB	283-933-JB	283-933-JB
Order number Stainless steel parts basket	-	-	282-410-JB

Safe cleaning with FALCON plunger cans



FALCON
DISPENSING LIQUIDS

DENIOS
CO₂ NEUTRAL

FALCON plunger cans

- For safe moistening of cleaning cloths and sponges
- Economic discharge, residual liquid flows back into the container
- Protection due to the reduction of generated fumes
- Protection against flashback thanks to built-in flame arrester (for all steel and stainless steel containers)
- Easy to operate pump mechanism with spring-mounted plunger plate
- High-quality containers in stainless steel 1.4404 (SUS 316 L), galvanised steel with additional coating in safety yellow or as plastic version in polyethylene



BESTSELLERS

Easy to operate pump mechanism with spring-mounted dasher plate in stainless steel

All plunger cans in steel and stainless steel are also available with an earthing connection, suitable for Quick-Connect earthing cable 283933

FALCON plunger can in polyethylene, resistant and chemically resistant to many acids and alkalis



Warehouse trolleys in	Steel		Stainless steel		Polyethylene	
Capacity [l]	1.0	2.5	1.0	2.0	1.0	2.0
External dimensions W x D x H [mm]	178 x 178 x 210	178 x 178 x 285	132 x 132 x 258	158 x 158 x 305	120 x 115 x 265	145 x 155 x 265
Order number Without earth connection	187-531-JA	187-532-JA	211-600-JA	211-601-JA	263-215-JA	263-216-JA
Order number With earthing connection	283-920-JA	283-921-JA	283-931-JA	283-932-JA	-	-

FALCON safety containers with dispensing tap

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ORDER AT THE SAME TIME

FALCON steel funnel, galvanised

Order no. 187-536-JB

FALCON stainless steel funnel

Order no. 187-534-JB



Quick-Connect earthing cable

Order no. 283-933-JB



FALCON spray cans in steel and stainless steel

- Economical and controlled spraying of surfaces and parts to be cleaned
- Ergonomic plastic spray cap with adjustable nozzle
- Integral plastic pump
- Highly resistant to many cleaning agents
- High-quality container made of stainless steel or galvanized steel, powder-coated in safety-yellow



All FALCON containers are supplied with multiple-language safety labels to mark the contents, with danger symbols according to GHS.



FALCON spray cans allow measured spraying and simple cleaning of contaminated surfaces.



All FALCON containers are supplied with multiple-language safety labels to mark the contents, with danger symbols according to GHS.

Spill trays for small containers in steel and stainless steel



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Material	Steel		Stainless steel	
	1.0	2.0	1.0	2.0
Capacity [l]				
Dimensions Ø x H [mm]	165 x 300	190 x 345	165 x 300	190 x 345
Order number	188-956-JB	188-957-JB	204-618-JB	204-619-JB

High quality cleaning cloths for industrial use (meeting DIN 61650)

Cleaning cloths in compressed bales

- High quality, made from clean recycled materials
- No foreign bodies such as hooks, buttons or zips



Type KB

- Light cotton mix fabric for large areas of contamination
- Ideal for use in the workshop, construction etc

Model BB

- In brightly coloured cotton bedlinen material
- Especially suitable for sensitive surfaces, practically seamless

Model HB

- In coloured, heavy duty terry towelling material
- High absorbency, ideal for drying damp surfaces
- Highly absorbent and soft, suitable for highly sensitive surfaces

Model TB

- Classic knitted cleaning cloths in SOFT, absorbent cotton in bright colours
- Suitable for workstations, machinery or tanks – anywhere where a lot of liquid needs to be mopped up

Model TW

- Pure white cotton, SOFT, absorbent, low lint
- Ideal for use with solvents

Models HW

- In white, heavy duty terry towelling material
- High absorbency, ideal for drying damp surfaces if dye transfer from cleaning cloths needs to be avoided

Type BW

- High quality, made from clean recycled materials
- No foreign bodies such as hooks, buttons or zips



For high demand and daily cleaning cloth use, full pallets are available at attractive rates.

Order in packs of
- 3 x 10 kg compact cubes
- 30 x 10 kg compact cubes (full pallet)

Special prices for bulk buyers
on request: 01952 811 991



Model	Kb	TB	Bb	HB	TW	Bw	Hw
Design	Calico, coloured	Jersey, light coloured	Bedlinen, light colour	Terry, coloured	Jersey, white	Bedlinen, white	Terry, white
Order number 3 x 10 kg press blocks	158-024-JB	158-019-JB	246-189-JB	246-191-JB	158-022-JB	158-027-JB	246-190-JB
Order number 30 x 10 kg compact cubes	158-037-JB	158-030-JB	285-746-JB	285-747-JB	158-034-JB	158-038-JB	285-748-JB



Lint-free cleaning cloths Model AT

- Extremely strong, full-bodied absorbent cloth
- Ideal replacement for conventional cleaning cloths
- For demanding cleaning tasks and removal of stubborn dirt and grease, e.g. degreasing gears
- In hygienic cellulose / polypropylene material with high absorption capacity
- Suitable for absorbing oils, greases and aqueous solutions
- Tear-resistant, lint-free, can be used both wet and dry
- Can also be used on rough surfaces
- Acid and solvent resistant



5

CLEANING AND DISPOSAL

Design	Roll, white	Cloth, white, Q fold
Pack contents	1 Roll(s)	10 Pack
Sketches items/pack	500	500
Cloth size [mm]	380 x 400 mm	380 x 400 mm
Mass per unit area [g/m ²]	80	80
Order number	246-182-JB	273-933-JB

Especially grippy thanks to honeycomb pattern

Environmentally-friendly cleaning cloths Model Bio White

- Low-lint, hygienic cloths for almost all light cleaning tasks
- 100% biodegradable and compostable, environmentally-friendly alternative to synthetic fibres
- Especially strong and absorbent material in cellulose and polyactides



Design	Roll, white	Cloth, white, Z fold
Pack contents	2 Roll(s)	8 Pack
Sketches items/pack	1000	720
Cloth size [mm]	300 x 380 mm	300 x 380 mm
Order number	246-187-JB	246-188-JB
Accessories	-	Dispenser for z-fold cloths
Order number	-	263-288-JB
External dimensions L x W x H [mm]	-	205 x 205 x 90

Basic cleaning cloths

- Ideal for almost all light cleaning tasks
- Ideal for hygiene areas with high volume use
- Environmentally friendly and hygienic cloths in high quality cellulose, white
- Practical to use, no perforations
- Inner winding ensures the cloth is always clean when using the wall-mounted dispenser



ORDER AT THE SAME TIME

Practical dispenser incl. wall mounting kit

- Individual dispensing: the rounded cutting edge teeth can cut the paper towel to any desired length
- Maximum hygiene as the user only touches the paper towel he takes out



Practical dispenser box for cleaning cloths Model N 19 and D 19 (see nearby table)

Model	N 19	D 19
	Cleaning cloth with inner dispensing, white, 1 ply, pack = 12 x 125 m rolls, width = 22 cm	Cleaning cloth with inner dispensing, white, 1 ply, pack = 6 x 300 m rolls, width = 22 cm
Order number	248-314-JB	248-315-JB
Accessories	Practical dispenser incl. wall mounting kit	
Order number	249-664-JB	249-666-JB
External dimensions L x W x H [mm]	180 x 172 x 345	250 x 230 x 365

Solvent resistant cleaning cloths.

- For universal use in all demanding high-end areas such as laboratories, electronics industry, automotive, paint, finishing, grey rooms
- Textile cloth in a combination of cellulose and polyester, absorbs quickly, resistant to solvents and lint-free
- Rip resistant when dry and when wet
- Silicon free
- Ideal cloth for degreasing, ideally suited to use in the food industry



Design	Tissues, white, folded	Tissues, turquoise, folded	Roll
Pack contents	10 Pack	1 Box(es)	2 Roll(s)
Sketches items/pack	500	200	1000
Cloth size [mm]	300 x 380 mm	300 x 380 mm	300 x 380 mm
Order number	130-040-JB	130-041-JB	130-042-JB
Accessories	Dispenser for z-fold cloths	-	-
Order number	263-288-JB	-	-
External dimensions L x W x H [mm]	205 x 205 x 90	-	-

Absorbent cleaning cloths

- Handy cleaning cloth for industrial use and fabrication
- Versatile, e.g. For cleaning and maintaining production facilities in workshops and for cleaning buildings
- Highly absorbent wipes and cleaning cloths are ideal for absorbing oil and water
- The soft structure also makes it suitable for use on surfaces which scratch easily
- Cloth size 20 x 30 cm
- Particularly resistant to tearing and low-lint



Design	Roll	Roll
Pack contents	1 Roll(s)	4 Roll(s)
Sketches items/pack	700	1000
Cloth size [mm]	260 x 350 mm	200 x 300 mm
Order number	130-038-JB	123-192-JB

Robust cleaning cloths

- Ideal for use in all industrial areas, vehicle workshops, etc.
- For cleaning and wiping up dirt, oils and greases
- Particularly resistant to tearing and low-lint
- Particularly suitable for removal of metal chips and for use in maintenance work involving very oily or dirty workpieces
- Made from recycled paper (blue) or cellulose (white)

BESTSELLERS


Design	Roll, blue, 3-ply, with EU Ecolabel	Roll, white, 3-ply
Pack contents	1 Roll(s)	1 Roll(s)
Sketches items/pack	989	920
Cloth size [mm]	370 x 380	370 x 380
Material	Recycled cellulose	Cellulose
Order number	130-036-JB	130-037-JB

Special prices for bulk buyers on request: 01952 811 991



Durable and reusable cleaning cloths

- Suitable for all industrial areas, e.g. For cleaning and maintaining production machinery and tools
- Safely absorb oils, greases and lubricants
- Super strong, solvent resistant, washable and reusable
- Even stubborn dirt can be removed with this robust and wipe-resistant cloth.
- Manufactured in polypropylene



Cleaning wipes, sold on the Roll



Design	Roll	Tissues, folded
Pack contents	1 Roll(s)	6 Pack
Sketches items/pack	500	300
Cloth size [mm]	320 x 380	380 x 400
Order number	129-659-JB	278-345-JB
Accessories	–	Dispenser for z-fold cloths
Order number	–	263-288-JB
External dimensions L x W x H [mm]	–	205 x 205 x 90

Strong industrial cleaning cloths

- Ideal for use in all industrial areas, vehicle workshops, etc.
- Especially for use on heavy contamination
- Best price-performance ratio: ideal where quantity used is high
- Particularly suitable for removal of metal chips and for use for maintenance work involving very oily or dirty workpieces
- Heavy duty cloths in recycled cellulose, brown



GREAT PRICE



Model	X 170
Pack contents	2 Roll(s)
Design	2-ply
Sketches items/pack	2520
Width, external [mm]	330
Order number	248-316-JB

DENSORB® Sample Set UNIVERSAL

- The sample set contains four different cleaning cloths for testing. You will receive a pack of 25 to 60 cloths of each type of cleaning cloths. Try out four types of cloths at once and choose the one that suits you best. The cloths are available both in rolls and in cloth format.
- We will be happy to advise you if you have any questions about cleaning cloths from DENIOS. Contact us by phone, fax or email.

Contents:

25 hard-wearing and reusable cleaning cloths, original item 129659
 50 solvent-resistant cleaning cloths, original item 130041
 50 All-Tex 80 cleaning cloths, original item 273933
 60 Biotextra cleaning cloths, original item 246188

Order no. 289-744-JB



Special prices for bulk buyers on request: 01952 811 991

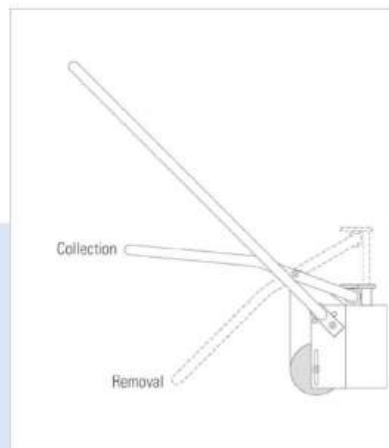


Magnetic sweeping machine

- With optimised magnetic field to safely pick up iron parts, even from cracks and grooves
- In sturdy housing in stainless steel - also suitable for working outdoors
- The wheels are height adjustable for uneven floors and are fitted behind the housing - this means even edges and corners can be properly cleaned (working width: 610 mm).
- When the ergonomic foot pedal is operated the collected parts fall down out of the device.
- Maintenance-free, proven product e.g. in metalworking companies, on building sites and in recycling works



As the wheels are located behind the housing, corners and edges are easy to sweep.



Stepping on the pedal releases the collected metallic parts from the magnets.

Order no. 257-417-JB



Order no. 268-052-JB

Adjustable magnetic collector

- For picking up metallic parts (tools, nuts, bolts, chips, profiles...) from areas which are difficult to access, e.g. under machinery
- Magnetic head can be adjusted through 150 degrees
- Telescopic handle, extendable from 66 to 104 cm
- Sweep area: 84 cm², sweep width: 28 cm



Telescopic handle, extendable from 66 to 104 cm



Magnetic bar

- Ideal for difficult-to-reach areas
- For cleaning up metal shavings, nails and chippings from machines (milling cutters, lathes, boring machines) or work benches
- Attracts small metal shavings
- Light, rust resistant bar
- Remove the central bar to easily remove the metal shavings
- Total length: 410 mm

With ergonomic handle and practical hanger

Order no. 268-049-JB





Magnetic broom

- For removing hazards
- Problem-free collection of chips and other annoying metallic parts which clog up conventional brooms
- Magnetic broom removes metal shavings from gaps and cracks where hand brushes, brooms and sweeping machines can't reach.



Magnetic broom with telescopic handle

- The shavings etc. can be removed easily by taking the head of the broom off the handle
- Telescopic handle, extendable from 690 to 1020 mm

Order no. 268-047-JB



Magnetic broom with telescopic handle

- For picking up metallic parts from areas which are difficult to access
- Magnetic head can be adjusted through 180 degrees
- Telescopic handle, extendable from 69 to 102 cm

Order no. 268-053-JB



Magnetic bar "Heavy Duty"

- Telescopic handle, extendable from 640 to 1020 mm
- Ergonomic handle, grip with finger mouldings and anti-slip protection
- Sweep height adjustable from 19 to 38 mm
- Extra large, profiled wheels for easy, safe operation



Width of turn	455 mm	610 mm	915 mm
External dimensions W x D x H [mm]	570 x 178 x 1300	950 x 190 x 1300	1250 x 200 x 1300
Order number	179-680-JB	284-060-JB	284-061-JB



The metal shavings can be removed easily by pulling the handle on top of the bar upwards

Magnetic bar for fork lift trucks

- Strong, long lasting magnet for removing hazardous and annoying metal shavings from traffic areas, hall floors etc.
- Also suitable for uneven surfaces such as gravel, cracked concrete, cobblestones...
- Simply attach to a forklift
- The magnetic broom attracts metal shavings from a 14 cm radius.
- The metal shavings can be removed easily by pulling the handle on top upwards.
- Can collect up to 80 kg
- Sweeping width (mm): 910

Order no. 268-046-JB



Liquid vacuum cleaner

- Minimises the use of absorption materials and reduces disposal costs
- Suitable for vacuuming the bottoms of DIP tanks, removing diesel or oil from vehicles or for emptying spill pallets
- Fits all steel drums with 2" fine thread
- With compressed air drive
- Waste product can be reused
- Operates without a filter
- Float prevents over filling
- Waste product can be reused

Liquid vacuum cleaner SV 6.4


Contents:

- 1 vacuum pump with shut-off valve and fill level limiter
- 1 connector with 90° elbow for 2" opening
- 2 m vacuum hose, Ø 38 mm

Order no. 123-223-JB

Liquid vacuum cleaner model SV 6.4,
For mounting on a steel bung hole drum
(available as an option)

Liquid vacuum cleaner SV 6.16


Contents:

- 1 vacuum pump with shut-off valve and fill level limiter
- 2 m vacuum hose, Ø 38 mm
- 1 Camlock quick connector
- 3-part suction pipe
- 1 floor nozzle with rubber edge
- 1 hand nozzle

Order no. 123-224-JB
Accessories

Vacuum hose for liquid vacuum cleaner Model SV 6.4 and SV 6.16, 3 m long, Ø 38 mm

Drum belt for 200 litre standard drums

sieve for 200 ltr. liquid exhauster

Order number

177-326-JB

174-321-JB

179-650-JB



Suck up and dispose of liquids with one machine

Compressed-air extractor and pump for liquids with a flashpoint over 55 °C

- Disposal costs are lower
- Absorbents don't need to be used as often
- No moving parts, maintenance free
- Sucks clean and contaminated fluids up from the ground, machinery and tanks.
- Pumps fluids back or into a disposal container
- Especially suitable for coolants and separation liquids, oil spills, paints, washing water, diesel, adsorbents etc
- Ideal to combine with oil tape skimmers
- Available in 2 versions: PressOut and PumpOut

PressOut

The liquid sucked into the container can be forced pneumatically over a distance of 2-3 metres into a disposal collection tank (e.g. IBC).




Contents:

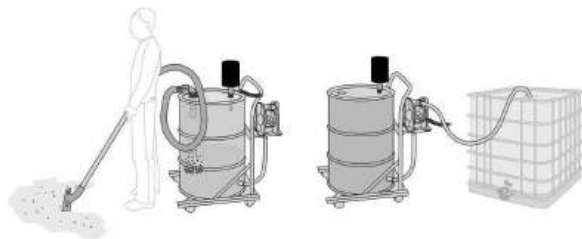
- Venturi pump with fill level limiter
- Suction hose and pipe
- Hand and floor nozzle (not for solvents!)
- 50 litre tank and trolley

The narrow design, ground clearance of 135 mm and a wheel diameter of 100 mm ensure easy manoeuvring even in narrow spaces.



Design	PressOut		PressOut ATEX
Order number	257-588-JB		257-589-JB
Accessories	Stainless steel strainer basket for filtering foreign bodies		
Order number	173-840-JB		173-840-JB

Pumpout



PumpOut sucks up liquid from the ground and pumps it into an IBC container.

Oil tape skimmer

See page
492




Combined use: PumpOut sucks up cooling water from a machine, separating particles from the liquid. An oil tape skimmer on the 2" mouth of the container skims off the oil from the surface. The purified liquid is then pumped back into the machine.

Contents:

- Venturi pump with fill level limiter (for suction)
- diaphragm pump (for pumping)
- suction hose and pipe, floor nozzle (not for solvents!)
- Strainer basket for filtering solid particles
- 200 litre container and transport trolley
- drum belt to prevent deformation from underpressure



Design	Pumpout		PumpOut ATEX
Order number	179-647-JB		186-281-JB



Liquid vacuum cleaner model ATEX W54 and ATEX W200

- Can also be used in potentially explosive areas: gas Zone 1 / dust zone 21
- For liquids with flashpoint above +55° C e.g. Washing and cooling water, oil, paint, sludge, glycol, diesel, lubricating oil etc. (Not solvents)
- Sucks up liquids from the floor and out of machines and containers using just compressed air
- Incl. 2 M suction hose (Ø 38 mm, anti-static), 3-piece metal suction tube, floor nozzle, trolley (with anti-static castors) and tank



ATEX W54 wet vacuum cleaner with 54 litre stainless steel container

Liquid vacuum cleaner ATEX W200 with 205 litre painted steel container

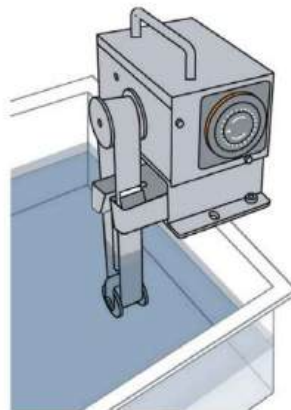
Design	ATEX W50	ATEX W200
Order number	173-292-JB	179-646-JB

Accessories

	Order number
ATEX extension hose for fluid suction device, length 3 metres, Ø 38mm, anti-static	173-839-JB
Drum belt for 200 litre standard drums	174-321-JB
Strainer for 50 l ATEX liquid vacuum cleaner, in stainless steel, for filtering out solid objects	173-840-JB
sieve for 200 ltr. liquid exhauster	179-650-JB



Portable oil tape skimmer for use in various locations; the oil is skimmed off by both sides of the tape



Typical use: oil tape skimmer with mounting base, fitted to the rim of a container

Oil tape skimmer

- Short-term amortisation
- Reduced purchasing and disposal costs
- Extended use of material and machinery
- Mode of operation: oil adheres better to itself and other objects than to water. It is absorbed by the oil skimmer tape and thus skimmed from the surface of the water
- Capacity of up to 4 litres of oil per hour
- Can be used indoors and outdoors for water-based washing liquids, coolants and separation liquids to +100 °C
- Incl. Timer and a band in stainless steel and in polyurethane (can be quickly exchanged)

Liquid vacuum cleaners PumpOut

See page
491



Design	Immersion depth 115 mm	Immersion depth 270 mm	Immersion depth 420 mm	Immersion depth 575 mm
External dimensions L x W x H [mm]	170 x 110 x 255	170 x 110 x 410	170 x 110 x 560	170 x 110 x 715
Order number	179-651-JB	179-652-JB	179-653-JB	179-654-JB

- High suction power with low operating noise
- Robust design with distinctive ease of use
- Large capacity despite compact design

NILFISK



1

Wet/dry vacuum cleaner with 4 m suction hose, curved stainless steel hand tube, filter bag and element, and inclined tube nozzle



2

Wet/dry vacuum cleaner with 4 m suction hose, bent hand tube and two 0.5 m extension tubes (all made of stainless steel), filter bag and element as well as floor and crevice nozzle



3

Vacuum cleaner for oils, chips and cooling liquids with 5 m suction hose, chip sieve, drain cock, antistatic hand nozzle and rubber nozzle (Further accessories on the picture are not included!)



4

Vacuum cleaner for oils, chips and coolants with 5 m suction hose, bent hand pipe, rubber slanted pipe nozzle, crevice nozzle, chip basket, drain cock as well as air reversal valve for pressure-assisted draining

5 6

Vacuum cleaner for oils, chips and coolants with nozzle for liquid draining: oil or coolant cleaned of chips can be sustainably returned to the process.



	1	2	3	4	5	6
Use	Wet/dry vacuum cleaner		Vacuum for oils, chips and coolants			
Output [W]	1500	3000	2000	2400	1300	2200
Underpressure [mbar]	230	250	210	230	320	330
Total volume [l]	70	70	37	52	180	180
Chip container volume [l]	–	–	–	22	30	30
Sound level [dB(A)]	57	67	74	70	70	71
External dimensions W x D x H [mm]	605 x 580 x 970	580 x 600 x 970	560 x 570 x 1027	580 x 880 x 1230	670 x 1050 x 1500	670 x 1050 x 1500
Weight [kg]	25	30	38	60	120	135
Order number	308-313-JB	308-314-JB	308-315-JB	308-316-JB	308-318-JB	308-319-JB

Safety vacuum cleaner for hazardous dusts

- Meets the European safety standards and the requirements of professional associations and legislative bodies for working with dusts which are harmful to health
- For all dusts which are hazardous to health with WEL values, all carcinogenic dusts and / or dusts containing pathogens as well as ASBESTOS dusts
- Designed to meet the requirements of health protection, safety and noise reduction laws
- Motor SOFT start, power is kept low to start with to avoid voltage drop

NILFISK

NEW
1

Wet-dry safety vacuum cleaner type S 533-Asbestos with antistatic 4 m suction hose, bent hand tube and two 505 mm extension tubes (all made of stainless steel), flat pleated filter, floor and crevice nozzle as well as antistatic tool adapter


2

Wet-dry safety vacuum cleaner type S 540-Asbestos with 3 m suction hose, bent hand pipe and two 0.5 m extension pipes (all made of chrome-plated steel), filter bag and element, bottom and slanted pipe nozzle


3


Wet-dry safety vacuum cleaner Model S 544-Asbestos with antistatic 4 m suction hose, angled hand pipe and two 505 mm extension pipes (all in stainless steel), flat pleated filter, floor and crevice nozzle as well as antistatic tool adapter

4


Wet-dry safety vacuum cleaner type S 550-Asbestos with 3 m suction hose, bent hand pipe and two 0.5 m extension pipes (all made of chrome-plated steel), filter bag and element as well as bottom and inclined pipe nozzle

5


Wet-dry safety vacuum cleaner type S 560-Asbestos with 3 m suction hose (Ø 36 mm), bent stainless steel hand pipe, filter bag and element, inclined pipe nozzle and appliance socket

	1	2	3	4	5
Model	S 533-Asbestos	S 540-Asbestos	S 544-Asbestos	S 550-Asbestos	S 560-Asbestos
	L, M, H, ASBESTOS	L, M, H, ASBESTOS	L, M, H, ASBESTOS	L, M, H, ASBESTOS	L, M, H, ASBESTOS
Capacity [l]	30	30	42	47	70
Output [W]	1400	1500	1400	1500	1200
Underpressure [mbar]	250	250	250	250	230
Sound level [dB(A)]	60	59	60	59	57
External dimensions W x D x H [mm]	400 x 790 x 640	400 x 598 x 672	400 x 790 x 720	402 x 592 x 826	600 x 600 x 1000
Weight [kg]	21	10	28	20	25
Order number	308-310-JB	210-582-JB	308-311-JB	308-309-JB	137-971-JB
Accessories					
Order number Microfilter element	308-811-JB	137-982-JB	308-811-JB	137-982-JB	137-983-JB
Order number Safety filter bags (VE=5 pieces)	308-810-JB	-	308-810-JB	-	-
Order number Safety filter bags (pack = 5 pieces)	-	137-976-JB	-	218-633-JB	137-977-JB

Additional accessory sets for the individual safety vacuum cleaners can be found in the denios online shop at www.denios.co.uk/shop

Safety vacuum cleaner for hazardous dusts

- Meets the European safety standards and the requirements of professional associations and legislative bodies for working with substances which are harmful to health and / or potentially explosive dusts
- Designed to meet the requirements of health protection, safety and noise reduction laws
- Motor SOFT start, power is kept low to start with to avoid voltage drop

NILFISK



1

Safety vacuum cleaner model S 940-asbest with 4 M suction hose, curved hand pipe, filter bag and element, motor cool air filter and crevice nozzles.



2

Safety vacuum cleaner model S 960 with 3.5 M suction hose Ø 27 mm, suction hose holder, filter bag and element, tool adapter, cable reel with 7.5 M power cable.



1

2

Model	S 940	S 960
Use	L, M, ATEX TYPE 22	L, M, ATEX TYPE 22
Capacity [l]	37	70
EX protection class (marking)	II 3D EX tD A22 T135 °C IP54	II 3D EX tD A22 T135 °C IP54
Output [W]	1100	1500
Underpressure [mbar]	230	250
Sound level [dB(A)]	60	59
External dimensions W x D x H [mm]	462 x 596 x 786	655 x 610 x 1000
Weight [kg]	19	33
Order number	218-631-JB	137-972-JB
Accessories		
Order number Safety filter bags (pack = 5 pieces)	218-633-JB	137-981-JB
Order number Microfilter element	137-984-JB	137-984-JB

Additional accessory sets for the individual safety vacuum cleaners can be found in the denios online shop at www.denios.co.uk/shop

NEW



Waste oil containers

- For the safe collection of used oils and other non-aggressive liquids in hazard class A-III
- Compact collection container with fill level indicator on the side, 2 large fixed castors and 2 swivel castors



Design	With rectangular funnel	With round funnel		With round funnel and dispensing hose		With round funnel and suction pump	
Capacity [l]	70	70	100	70	100	70	100
External dimensions W x D x H [mm]	800 x 800 x 1100	800 x 800 x 1000	800 x 800 x 1250	800 x 800 x 1000	800 x 800 x 1000	800 x 800 x 1400	1200 x 800 x 1000
Order number	305-378-JB	305-379-JB	305-380-JB	305-381-JB	305-382-JB	305-383-JB	305-384-JB

Waste oil and coolant drain pans

- For collecting liquids where collection canisters are not available



Design	Open, with tray and drain
Capacity [l]	8
External dimensions L x W x H [mm]	430 x 400 x 110
Order number	248-920-JB



Design	Open		
Capacity [l]	11	15	19
External dimensions L x W x H [mm]	520 x 390 x 150	600 x 450 x 180	610 x 457 x 178
Order number	248-915-JB	248-916-JB	116-049-JB



Design	Open
Capacity [l]	40
External dimensions L x W x H [mm]	900 x 685 x 135
Order number	116-053-JB



Design	Closed			
Capacity [l]	4	8	8	14
External dimensions L x W x H [mm]	430 x 310 x 90	600 x 320 x 135	580 x 410 x 130	585 x 450 x 175
Order number	248-917-JB	248-918-JB	248-919-JB	248-921-JB

NEW



Waste oil collection trolley

- For the safe collection of used oils and other non-aggressive liquids in hazard class A-III
- Sturdy design with 2 large fixed castors, 2 swivel castors, drain tap and foldable pull-push handle
- As an option, emptying is possible via a hydraulic coupling when using a suction pump.

Capacity [l]	95
External dimensions W x D x H [mm]	1250 x 610 x 260
Order number	305-377-JB



205 litre container for solid substances

- The container is fitted with a chassis for ease of transportation to special decentralised areas for disposing of solid substances
- Hot dip galvanised design
- Sturdy key on the lid
- Transport: suitable for transporting solid materials, which should be transported in "steel drums with lids that can be removed" in accordance with GGVSEB
- Active storage - container must be placed on a solid surface, so that spillages can be detected immediately and cleaned up
- Passive storage

ORDER AT THE SAME TIME

PE sacks to protect against heavy contamination (pack = 10 item)

Order no. 117-968-JB



Order no. 117-967-JB

5

CLEANING AND DISPOSAL

Safety collection containers for oily waste

- For collecting materials which are proven to contain oil
- Galvanised design with easy to manoeuvre wheels
- Oil drainage tap and strainer in the base so that residual liquids can be drained from the container

Folding leak spill pallets, reusable

See page
358



Order no. 265-886-JB

Drum waste disposal top

- Domed lid with a self closing flap
- Ideal for using existing 200 litre drums for inexpensive waste collection
- Manufactured from environmentally friendly polyethylene (PE)
- Dimensions Ø x H [mm]: 630 x 321 mm



Order no. 156-779-JB

Flammex extinguishing cap for drums

- Flammex extinguishing head in aluminium
- Make a self-extinguishing safety waste container from a 205 litre drum
- Flammex principle: in the case of a fire the flue gases accumulate under the lid rim and "suffocate" the fire as no more oxygen can get in the container



Order no. 116-804-JB

Waste oil collector, 400 and 995 litre

- Double walled container for collecting used oil or other water-polluting substances
- Meets DIN 6623-2
- Approved for collecting liquids with a flashpoint above 55 °C
- For indoor and outdoor installation
- Hot dip galvanised (inside and outside) to ensure corrosion protection
- Manually operated funnel lid, stays upright when open, lockable
- Integral vacuum leakage detection system
- Easy to use funnel (Ø 500 mm) with strainer insert
- Hydraulic overfill protection for protection against overfilling
- Drain pipe with safety screwed fitting
- Dipstick and ventilation line
- Can be transported in-house (empty)



Capacity [l]	400	990
External diameter [mm]	1000	1250
Height without ventilation [mm]	1000	1335
Weight [kg]	200	290
Standard(s)		
Order number	137-045-JB	137-047-JB

Deutsches
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für
Bautechnik

DIBt

HazMat collector, 250 to 950 litres

- For water-polluting substances and flammable liquids
- Double walled, explosion proof and with a stop device meeting TRbF 60
- Hot dip galvanised inside and outside to ensure corrosion protection
- Integral vacuum leakage detection system
- Hydraulic overflow safety system
- Drain line with lockable safety screw connection
- With dipstick and ventilation line
- 2 lifting eyes for transport when empty, safe crange according to DGUV-Information 209-013
- For indoor and outdoor installation
- With DIBt approval as a storage container
- Either for operation by anyone or by an expert



Capacity [l]	250	400	600	995
External diameter [mm]	800	1000	1000	1250
Height without ventilation [mm]	1200	1025	1210	1230
DIBt approval	Z-38.12-288	Z-38.12-288	Z-38.12-288	Z-38.12-288
Order number Usable by an expert	157-075-JB	157-084-JB	157-085-JB	157-086-JB
Order number Usable by all	117-735-JB	117-736-JB	117-737-JB	117-738-JB



ASF containers, single wall



A large number of legal regulations etc. must be observed when collecting and, in particular, transporting residual quantities or waste materials. With the ASF (waste collection containers for liquids) and ASP (waste collection containers for pasty and solid substances) containers shown here, we offer tested and approved solutions for a large number of the day-to-day requirements that exist in almost every business.

- For the safe collection and transport of liquids
- Robust, hot dip galvanised steel construction in single-wall design
- Upper section with manhole and (from 445 litres) safety valve 1/2"
- Forklift pockets for easy transport
- Transport approval according to ADR/RID/IMDG Code, packing groups II and III - transport permitted with no limitation on flashpoint and water hazard class
- Active storage: permitted for water-polluting substances (WGK 1 to 3) with a flashpoint greater than 55°C. In case of permanent storage of more than 6 months, the use of a spill pallet is required
- Passive storage permitted with no limitation on flashpoint and water-polluting class



Upper section with manhole NW 400 and lockable cover



Pressure release valve for automatic pressure release



	ASF containers, single wall		
Capacity [l]	445	800	1000
External dimensions L x W x H [mm]	1230 x 1030 x 840	1230 x 1030 x 1220	1230 x 1030 x 1400
Weight [kg]	175	210	230
Un-approved	D/BAM 0470/31A	D/BAM 0469/31A	D/BAM 0469/31A
Order number	117-952-JB	117-953-JB	117-955-JB

ASF containers, with bottom drain



- For the collection and transport of liquids
- Hot dip galvanised container in single wall construction, bottom drain & 2" shut off valve
- Upper section with manhole NW 400 and safety valve 1/2"
- Transport of flammable liquids and substances in all water-polluting classes is permitted with no limitations
- Suitable for passive and active storage of substances in WGK 1, 2 and 3 with flashpoint greater than 55 °C when a spill pallet is used

Container model asf-b with drain tap at base, 1000 litres. (Stored on an approved spill pallet in accordance with the regulations)



Container Model ASF-B with bottom drain, 1000 litres



Container Model ASF-B with bottom drain, 445 litres



Container Model ASF-B with bottom drain, 800 litres



Spill pallets DENIOS classic-line, for 1 x 1000 litre IBC, painted,

Order no. 259-383-JB

	ASF containers, with bottom drain		
Capacity [l]	445	800	1000
External dimensions L x W x H [mm]	1230 x 1030 x 1040	1230 x 1030 x 1420	1230 x 1030 x 1600
Weight [kg]	200	235	255
Un-approved	D/BAM 0470/31A	D/BAM 0469/31A	D/BAM 0469/31A
Features	Upper section with manhole NW 400 and safety valve 1/2"		
Order number	117-956-JB	117-957-JB	117-958-JB

More spill pallets

See page
42



ASF containers, double wall

A large number of legal regulations etc. must be observed when collecting and, in particular, transporting residual quantities or waste materials. With the ASF (waste collection containers for liquids) and ASP (waste collection containers for pasty and solid substances) containers shown here, we offer tested and approved solutions for a large number of the day-to-day requirements that exist in almost every business.

- For the safe collection and transport of liquids
- Robust, hot dip galvanised steel construction in double-walled design
- Equipped with vacuum leak indicator for safe monitoring of liquid-tightness
- Upper section with manhole and safety valve
- Forklift pockets for easy transport
- Transport approval according to ADR/RID/IMDG Code, packing groups II and III - transport permitted with no limitation on flashpoint and water hazard class
- Active storage permitted to 450 litres with no limitation - from 450 litres permitted for substances with flashpoint greater than 55 °C to WGK 3
- Passive storage permitted with no limitation
- Storage permitted without additional spill pallet



All ASF containers are stackable, allowing compact, space-saving storage.



Container Model ASF-D, 100 litres, double wall



Detailed illustration: leak detection for testing container sealing



All ASF containers can be stacked so that compact space saving storage is possible

ASF containers, double wall					
Capacity [l]	100	280	445	800	1000
External dimensions L x W x H [mm]	570 x 470 x 700	750 x 605 x 1050	1230 x 1030 x 840	1230 x 1030 x 1220	1230 x 1030 x 1400
Weight [kg]	65	120	220	285	310
Un-approved	D/BAM 9440/1A2	D/BAM 6480/31A	D/BAM 0471/31A	D/BAM 0472/31A	D/BAM 0472/31A
Features	Upper section with manhole (NW 300)	Upper section with manhole (NW 300) and safety valve 1/2"	Upper section with manhole (NW 400) and pressure release valve	Upper section with manhole (NW 400) and safety valve 1/2"	
Order number	117-959-JB	120-363-JB	120-364-JB	117-960-JB	117-961-JB



ASP container for collection of solid and paste-like substances and spray cans



5

CLEANING AND DISPOSAL

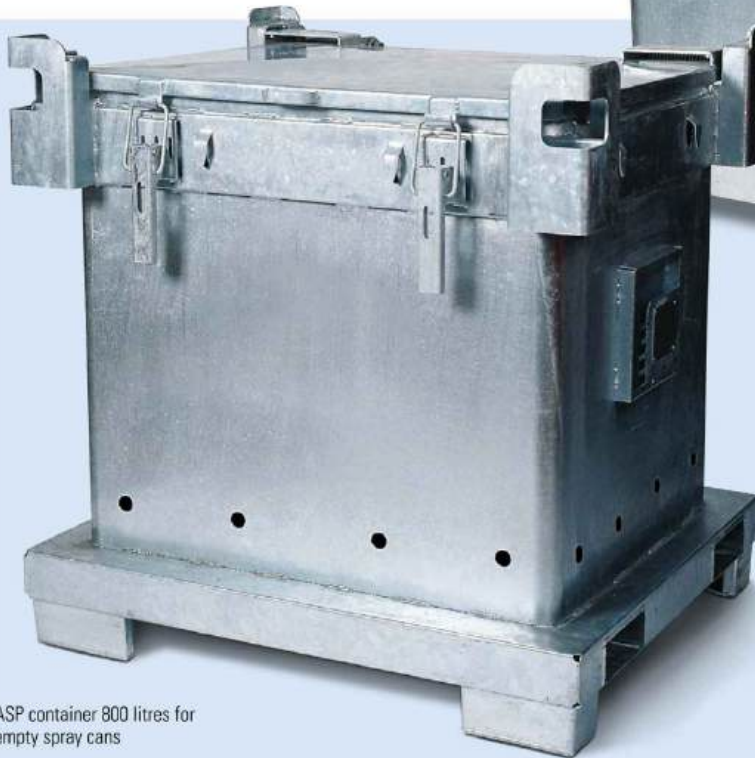
- For the collection and safe transport of solid and paste-like substances
- With transport approval to ADR/RID/IMDG-Code, for packaging groups II and III
- Active storage permitted, container must be placed on a solid surface, so that any spillages can be detected immediately and cleaned up
- Passive storage permitted
- Robust hot dip galvanised steel construction, meeting DIN 30741, Part 1
- Easy-opening lid with hinge springs (supported), locked at two opening angles (70° and 270°)
- Sturdy plastic bags are available as accessories to protect the container from contamination



ASP container, 800 litres



ASP container, 800 litres



ASP container 800 litres for empty spray cans

ORDER AT THE SAME TIME

Plastic bags in polyethylene, prevent contamination of the container



Transport containers for empty aerosol cans

See page
505



Suitable for	For solid and paste-like substances			For empty spray bottles
Capacity [l]	240	600	800	800
External dimensions L x W x H [mm]	715 x 715 x 845	1200 x 1000 x 1023	1200 x 1000 x 1212	1200 x 1000 x 1212
Weight [kg]	80	175	190	190
Un-approved	D/BAM 0460/11A	D/BAM 12229/11A	D/BAM 12229/11A	D/BAM 12938
Order number	117-962-JB	117-964-JB	117-965-JB	208-417-JB
Plastic sacks in polyethylene (PE) prevent contamination of ASP containers (Pack = 10 items)				
Order number	117-963-JB	117-966-JB	117-966-JB	117-966-JB



Plastic safety collecting container, 45 and 68 litres

- For the safe disposal of cleaning cloths and other waste, which is dampened with aggressive or corrosive liquids
- In red coloured polyethylene
- Self-closing safety lid
- Lid opens easily with foot operation
- FM certified



Capacity [l]	45	68
External dimensions L x W x H [mm]	381 x 413 x 600	375 x 502 x 673
Order number	274-569-JB	274-570-JB



Special containers

- Sturdy sheet steel construction
- Self closing flap on the bin lid
- With two handles at the sides
- Option: galvanised inner container (see accessories)
- 2 practical handles at the sides
- Galvanised inner container available as an option

Model	AB 100	AB 100-v
Capacity [l]	95	95
External dimensions L x W x H [mm]	450 x 450 x 870	450 x 450 x 870
Order number Silver	116-772-JB	116-775-JB
Order number Yellow	116-773-JB	116-776-JB
Accessories	Galvanized container for model AB 100	—
Order number	116-761-JB	—



Waste bin

- Sheet steel, hot dip galvanised in accordance with EN ISO 1461
- Equipped with 2 side handles for easy transporting
- Optional accessories: galvanised lid

Capacity [l]	60	80	100
Dimensions Ø x H [mm]	380 x 630	400 x 755	420 x 835
Order number	137-541-JB	137-543-JB	164-438-JB
Accessories	Lid, galvanised		
Order number	137-542-JB	137-544-JB	164-738-JB

ORDER AT THE SAME TIME

Pictogram set (pack = 6 pieces)



Order no. 154-062-JB

Wide range of waste bags

See page
520





Oily waste cans

- Safe collection of cleaning cloths and other waste, protection from fires starting with self-closing lid, additional safety with base ventilation - prevents overheating and self-ignition
- Leak-proof welded container avoids leaking of residual liquids
- FM certified
- Can be opened easily by operating the large pedal with its anti-skid surface
- Big, ergonomic grip at the back serves for easy emptying of the container



The self-closing lid prevents the content from igniting, e.g. by flying sparks



Oily waste container made of red painted steel, 35 litres, with self-closing lid and floor ventilation



The ergonomic handle makes it easy and safe to empty the container.



Damped, self-closing lid mechanism for significant noise reduction and to save material and costs



Each disposal container is delivered with a multilingual safety label.



Capacity [l]	20	35	50	65
External dimensions L x W x H [mm]	382 x 385 x 429	440 x 450 x 490	495 x 505 x 540	535 x 545 x 580
Order number Steel	256-101-JB	256-102-JB	256-103-JB	256-104-JB
Order number Stainless steel	256-106-JB	256-122-JB	256-123-JB	256-124-JB
Accessories	Waste sacks, blue (1 pack = 500 pieces)	Waste sacks, blue (1 pack = 250 pieces)	Waste sacks, blue (1 pack = 250 pieces)	Waste sacks, blue (1 pack = 250 pieces)
Order number	243-873-JB	243-869-JB	243-869-JB	243-872-JB



Swing top bin for cotton waste

The large flap at the top ensures even bulky waste can be easily accepted

- Sturdy design manufactured from steel with handles on 2 sides
- Self closing, practical flap without spring action
- With a lid that can be removed
- Self-extinguishing
- Non-combustible, self-extinguishing



The swing lid cover can be removed for emptying



Collection container in stainless

Order no. 188-618-JB



Collection container in sheet steel, in grey (RAL 7035) with swing lid in blue (RAL 5010)

Order no. 210-633-JB



Collection container in sheet steel, in red (RAL 3000)



Material	Steel	Steel	Stainless steel
Capacity [l]	73	73	73
External dimensions L x W x H [mm]	400 x 400 x 680	400 x 400 x 680	400 x 400 x 680
Body colour	Grey	Red	-
Lid colour	Blue	Red	-
Order number	210-633-JB	117-834-JB	188-618-JB



Transport containers for empty or partial empty aerosol cans

- Approved for transport in accordance with ADR in accordance with UN 1950 (waste pressurised gas packs)
- Robust, environmentally friendly reusable container
- Simple closure system allows easy opening and closing.
- Easy transport with large, solid rubber-tyred wheels
- Permitted as packaging according to packing instruction P207 in accordance with special packing provision PP 87 (special packing provisions 327, 625, 190 and 344 must be observed)

ASP container for empty spray cans

See page
501



5

CLEANING AND DISPOSAL



Design	Not antistatic, no slot	Not antistatic, no slot	Not antistatic, with slot	Not antistatic, with slot	Antistatic, no slot	Antistatic, with slot
Capacity [l]	120	200	120	200	120	120
Approval	1H2W/X150/S/.../A/ PA-01/TGM-K22	1H2W/X160/S/.../A/ PA-01/TGM-K23	1H2W/X150/S/.../A/ PA-01/TGM-K22	1H2W/X160/S/.../A/ PA-01/TGM-K23	1H2W/X150/S/.../A/PA-01/ TGM-K22	1H2W/X150/S/.../A/PA-01/ TGM-K22
External dimensions L x W x H [mm]	554 x 498 x 960	674 x 580 x 1045	554 x 498 x 960	674 x 580 x 1045	554 x 498 x 960	554 x 498 x 960
Order number	272-856-JB	271-768-JB	271-776-JB	271-779-JB	271-756-JB	271-889-JB

Transport containers for hazardous solids

- Approved for transport in accordance with ADR
- Versatile applications, e.g. for materials (paint residues, waste, etc.), used cleaning cloths, granules as well as oil and chemical binders
- Patented lid with sealing system, light- and airtight, especially leak-proof
- Simple closure system allows easy opening and closing.
- Robust, environmentally friendly reusable container
- Easy transport with large, solid rubber-tyred wheels
- Permitted as packaging according to packing instruction P002 and derived for solid dangerous substances in packing groups I, II and III, additional equipment: none



Design	Not antistatic		Antistatic
Capacity [l]	120	200	120
Approval	1H2W/X150/S/.../A/ PA-01/TGM-K22	1H2W/X160/S/.../A/ PA-01/TGM-K23	1H2W/X150/S/.../A/ PA-01/TGM-K22
External dimensions L x W x H [mm]	560 x 498 x 960	674 x 580 x 1045	560 x 498 x 960
Order number	271-884-JB	271-885-JB	271-887-JB





Round bins, 35 litres

- Sturdy, long lasting product
- Chemical resistant
- Also ideal for outdoor use
- With two ergonomic handles
- Colour: black

Capacity [l]	35
External dimensions W x H [mm]	410 x 514
Order number	116-870-JB
Accessories	Waste sacks, blue (1 pack = 250 pieces)
Order number	243-869-JB



Waste container with hinged lid

- Sturdy, long lasting construction in hot dip galvanised steel
- Bottom grip for easy emptying

Capacity [l]	20	30	40
Dimensions Ø x H [mm]	280 x 345	320 x 365	360 x 420
Order number	164-719-JB	164-721-JB	164-723-JB



Bucket in galvanised steel, 10 and 12 litres

- Resilient classic made out of robust steel
- Corrosion-proof due to hot dip galvanising
- Stable carry handle with suspension point
- Pack = 10 pieces

Capacity [l]	10	12
Dimensions Ø x H [mm]	265 x 265	290 x 260
Order number	180-844-JB	181-317-JB



- Proven again and again over generations
- With hinged lid including lid lifter
- All steel parts are hot dip galvanised in accordance with EN ISO 1461
- Especially sturdy design
- Manufactured in accordance with DIN 6628/6629 (dust free emptying)



System waste bin with 2 side carry handles, 65 to 110 litres



Waste bin system with lid clamp strap and 1 carry handle on the lid, 25 to 50 litres

Mobile waste bin system with 2 side carry handles, robust tubular handle for pushing and solid rubber wheels with ball bearings, 110 litres



Conductive waste bags

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Capacity [l]	25	35	50	65	110	110
Design	With locking hoop and handle on the lid	With locking hoop and handle on the lid	With locking hoop and handle on the lid and two sturdy carry handles	With two stable handles	With two stable handles	Mobile, 2 carry handles
Dimensions Ø x H [mm]	400 x 400	400 x 495	400 x 690	400 x 880	475 x 870	475 x 870
Order number	164-730-JB	164-731-JB	164-732-JB	164-734-JB	164-736-JB	164-737-JB

NEW



Used battery collection box

- Stable design made from high quality, shock resistant plastic
- 1 opening for normal batteries and 1 for cell batteries
- Lid with catches with security seals

Capacity [l]	9	20
External dimensions L x W x H [mm]	300 x 200 x 230	400 x 300 x 235
Internal dimensions L x W x H [mm]	260 x 160 x 215	355 x 255 x 215
Order number	294-792-JB	294-793-JB



Battery container for used batteries, 670 litres

- Meets the ADR and RID regulations for small containers
- Stable design made from high quality, shock resistant polypropylene
- With additional stiffeners also suitable as a battery box for used batteries
- Dimensions W x D x H (mm):
Exterior: 1200 x 1000 x 790
Interior: 1100 x 910 x 610



Order no. 117-888-JB

ORDER AT THE SAME TIME

Lid

In quality, impact resistant plastic

Order no. 117-889-JB

PolyPro stacking containers, 90 to 400 litre capacity

See page
558



Used battery collection container

Container in an attractive design for separate collection of button-cell and block batteries with 2-compartment system

- In acid resistant plastic
- With large viewing panel to monitor the fill level



Detailed illustration:
2 compartment system
for separate collection
of button cells and
batteries



1

Battery collection container, 30 litres

Order no. 129-605-JB

2

Battery collection container, 6 litres

Order no. 129-603-JB

3

Battery recycling container,
designed for wall-mounting

Order no. 129-600-JB

Design	Wall-mounted	Standing container	
Capacity [l]	6	6	30
Dimensions Ø x H [mm]	140 x 375	140 x 375	200 x 950
Order number	129-600-JB	129-603-JB	129-605-JB



Fluorescent tube collection container

- For environmentally friendly collection of light tubes
- In galvanised sheet steel
- Feet ensure ground clearance; forklift pockets for transport with pallet truck or forklift
- With stacking corners and crane eyes
- Capacity: approx. 1100 Tubes Ø 25 mm or approx. 500 Tubes Ø 37 mm



Safety container for fluorescent tubes with door and hinged lid

External dimensions L x W x H [mm]	1670 x 750 x 1000	2070 x 750 x 1000
Order number	248-725-JB	248-726-JB



Fluorescent tube collection containers

- Handy boxes with handle and cover for safe handling of light tubes
- For storage and internal transport
- Made from light, robust polyethylene
- Optionally available: bracket (see accessories), for hanging on forklift or work benches for example



Storage and transport boxes for fluorescent light tubes, 600, 1200 and 1500 mm

External dimensions L x W x H [mm]	675 x 210 x 190	1280 x 210 x 190	1530 x 190 x 210
Order number	169-481-JB	169-482-JB	169-484-JB

ORDER AT THE SAME TIME

Bracket to hang the light tube box from a work safety platform, for example, with a strap to secure the box for fluorescent light tubes



Order no. 170-972-JB



Waste sack stand with hygienic foot operation

- The versatile classic for use in stores and production
- Both hands remain free and clean thanks to easy foot operation
- Stable tubular steel frame and sturdy plastic lid
- Suitable for 120 litre waste sacks



Foot operated waste sack stand with powder coated frame and plastic lid

Order no. 219-520-JB

Design	Standing support, foot operated with plastic lid
Order number galvanized	219-519-JB
Order number powder coated	219-520-JB
Accessories	Plastic waste sacks, blue (1 pack = 250 pieces)
Order number	145-136-JB

Free-standing sack holder

- Standing waste sack holder for efficient waste collection
- Stable tubular steel frame and sturdy lid
- Suitable for 120 litre waste sacks



Free-standing waste sack holder, galvanised steel frame and lid

Order no. 164-660-JB

Design	Free-standing unit with plastic lid	Free-standing unit with steel lid
Order number galvanized	164-658-JB	164-660-JB
Order number powder coated	164-659-JB	164-661-JB
Accessories	Plastic waste sacks, blue (1 pack = 250 pieces)	
Order number	145-136-JB	145-136-JB



Wall mounted waste sack stand with powder coated frame and plastic lid

Order no. 164-665-JB



Wall mounted sack holder, galvanised, with steel lid

Order no. 164-669-JB

Design	Wall unit with plastic lid	Wall unit with steel lid
Order number galvanized	164-664-JB	164-669-JB
Order number powder coated	164-665-JB	164-670-JB
Accessories	Plastic waste sacks, blue (1 pack = 250 pieces)	
Order number	145-136-JB	145-136-JB

Wall-mounted sack holder

- For efficient waste collection
- Robust lid
- Suitable for 120 litre sacks



Mobile waste sack holder with 2 castors, powder coated, with steel lid

- Sturdy steel pipe frame on two easy to manoeuvre castors
- Robust lid
- Additional support plate prevents the wheels getting blocked by the waste sack during transport
- For 120 litre waste sacks

The additional support plate prevents the wheels getting blocked by the waste sack during transport



Mobile waste sack holder with 2 castors, powder coated, with steel lid

Order no. 219-509-JB

Design	Mobile with plastic lid	Mobile with steel lid
Order number galvanized	219-506-JB	219-508-JB
Order number powder coated	219-507-JB	219-509-JB
Accessories	Plastic waste sacks, blue (1 pack = 250 pieces)	
Order number	145-136-JB	145-136-JB

Mobile waste sack holder with 4 castors, powder coated, with steel lid

- Sturdy steel pipe frame on easy to manoeuvre castors
- Robust lid
- For 120 litre waste sacks



Mobile waste sack holder with 4 castors, powder coated, with steel lid

Order no. 219-513-JB

Design	Mobile with plastic lid	Mobile with steel lid
Order number galvanized	219-510-JB	219-512-JB
Order number powder coated	219-511-JB	219-513-JB
Accessories	Plastic waste sacks, blue (1 pack = 250 pieces)	
Order number	145-136-JB	145-136-JB

Special collector for bulky waste

- High volume recyclable material container with 1000 litre capacity
- Sturdy steel frame with powder coating
- Spare sacks available as an accessory

1000 litre special collector, no lid, with castors

Order no. 164-715-JB



1000 litre special collector with lid, stationary

Order no. 164-714-JB



Design	Without lid	With lid
External dimensions L x W x H [mm]	730 x 695 x 1230	
Capacity [l]	1000	
Order number Stationary	164-713-JB	164-714-JB
Order number With castors	164-715-JB	165-076-JB
Accessories	Spare sacks for wheelie bin, 1000 litres, transparent (Pack = 10 sacks)	
Order number	165-578-JB	165-578-JB

Plastic mobile waste containers

- Resistant to many chemicals
- Space-efficient design
- Low own weight ensures high stability
- Weather and UV resistant
- With four safety swivel castors, two with locking brakes
- As standard with safety mounting pins and lockable water drain
- In accordance with EN 840 for waste and recyclable material containers



Capacity [l]	500	660	770	1100
External dimensions L x W x H [mm]	1360 x 655 x 1135	1373 x 780 x 1213	1373 x 776 x 1365	1373 x 1073 x 1354
Order number Grey	188-647-JB	188-695-JB	188-699-JB	188-703-JB
Order number Green	116-786-JB	116-784-JB	190-859-JB	116-073-JB
Order number Yellow	-	188-694-JB	188-698-JB	188-702-JB
Order number Blue	-	188-696-JB	188-700-JB	188-704-JB
Order number Brown	-	188-697-JB	188-701-JB	188-705-JB

Steel mobile waste containers

- Sliding lid lockable when opened fully and half-way
- With rubber strip on the lid for finger protection
- In galvanised steel in accordance with EN 840
- With 4 safety swivel castors, 2 with brake
- As standard with mounting pins and lockable water drain



Galvanised steel waste container

Capacity [l]	1100
External dimensions L x W x H [mm]	1360 x 1030 x 1440
Order number galvanised	116-068-JB



Plastic wheelie bins

- Low own weight ensures high stability
- Easy to open lid
- Weather and UV resistant
- Resistant to many chemicals
- With sturdy chassis - easy to manoeuvre
- Ergonomic handle
- In accordance with EN 840 for waste and recyclable material containers



Waste sack holder for waste bins, available as an accessory



Capacity [l]	80	120	240	360
External dimensions L x W x H [mm]	520 x 445 x 940	560 x 480 x 935	735 x 580 x 1065	860 x 625 x 1095
Order number Grey	116-178-JB	116-186-JB	116-199-JB	116-206-JB
Order number Green	116-184-JB	116-191-JB	116-204-JB	116-210-JB
Order number Yellow	116-183-JB	116-190-JB	116-203-JB	116-209-JB
Order number Blue	116-182-JB	116-189-JB	116-202-JB	116-208-JB
Order number Red	116-181-JB	116-188-JB	116-201-JB	116-207-JB
Accessories				
Order number Waste sacks 100 µ (pack = 100 pcs)	202-391-JB	165-476-JB	165-477-JB	262-556-JB
Order number Waste sack holder	197-098-JB	156-997-JB	156-998-JB	273-736-JB

ORDER AT THE SAME TIME

Pictogram set

- For recyclable material containers and refuse bin boxes
- Pictogram set with symbols: paper, plastics, residual waste, glass, sheet metal/metal and bio-waste
- Waterproof and self adhesive
- Format (H x W): 180 x 160 mm



Order no. 154-062-JB

Steel wheelie bins

- Ideal for external use
- In galvanised steel
- Combines long service life with optimum corrosion protection
- In accordance with EN 840 for waste and recyclable material containers

Safety collection containers for oily waste



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497

Capacity [l]	120	240
External dimensions L x W x H [mm]	568 x 460 x 920	712 x 570 x 1050
Order number galvanized	195-363-JB	116-217-JB



Galvanised steel wheelie bin

Order no. 116-217-JB



Order no. 115-212-JB

Mobile wheelie bin tipper FMT

- For easy emptying of wheelie bins
- Suitable for 80, 120 and 240 litre wheelie bins
- After moving close, the bin is picked up by the hydraulic pump (only 20 double strokes to max Lift height) and is automatically emptied
- A relief valve is used for lowering
- Sturdy wheels with ball bearing castors for easy manoeuvrability
- External dimensions W x D x H (mm): 1000 x 1200 x 1700
- Total height when extended: 3200 mm
- Load capacity: 100 kg

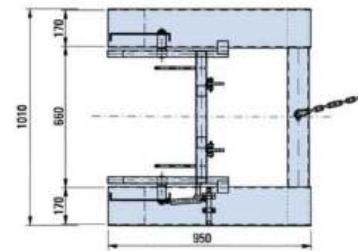
Large wheelie bins

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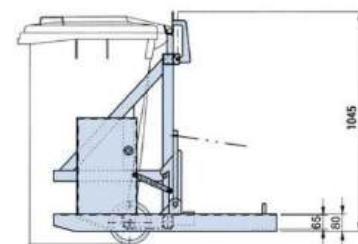


Bin tipper MT 240 for 240 litre wheelie bins

- As a forklift attachment for picking up and emptying a 240 litre wheelie BIN
- Hot dip galvanised, long lasting steel construction
- The bin is picked up by driving towards it from the rear
- The lock is released by the driver when the emptying location is reached
- With safety chain to prevent falling
- Load capacity: 150 kg



Top view MT 240 dimensions in mm



Side view MT 240 dimensions in mm



Order no. 115-211-JB





Cleaning trolley for waste sacks

- Stable steel design with frame for 120 litre waste sacks (incl. rubber band to secure the sack)
- With large (Ø 300 mm), smooth-running wheels and sturdy plastic lid
- Practical holder for brooms, shovels etc
- Integral tray for waste sacks, gloves etc.
- Ergonomic push handle



Order no. 265-606-JB

Wide range of waste bags

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Cleaning trolley for waste containers

- Sturdy, height-adjustable (885-1135 mm) steel design for wheelie bins up to max. width of 470 mm (without wheels)
- With large (Ø 300 mm), smooth-running wheels
- Practical holder for brooms, shovels etc
- Integral tray for waste sacks, gloves etc.
- Ergonomic push handle



Order no. 265-593-JB



Gripping tongs

- For easy collection of waste
- Easy to use
- Sturdy, ergonomic handle
- Internal cable pulls for a low wear mechanism



Type A

- Exposed point for scratching and loosening stuck-on waste, robust gripper, overall length 900 mm

Order no. 163-468-JB



Type B

- Soft, anti-slip rubber gripper for smooth objects such as bottles, cans etc overall length 920 mm

Order no. 163-473-JB



Model C

- Universal application, extremely light and with a particularly comfortable "pistol" handle including finger recesses
- Overall length: 820 mm

Order no. 265-643-JB

Portable waste sack holder

- Can be used outdoors or indoors
- Stable, lightweight frame with ergonomic handle
- The integral rubber band ensures the waste sack does not slip out.



Order no. 265-610-JB

Recyclable material container model AB 65-b, 65 litres

- Fire-inhibiting, odour reducing waste containers
- Stationary recyclable material container which stands flat on the ground
- With a swing flap, removable cover and removable inner container
- With recyclable material labels for easy orientation



With galvanised inner container as standard

Recyclable material container model AB 65-b, available in 5 colours or in stainless steel

Design	AB 65-b
Capacity [l]	65
External dimensions L x W x H [mm]	400 x 380 x 970
Steel	
Order number Grey	116-778-JB
Order number Red	116-779-JB
Order number Blue	116-780-JB
Order number Yellow	116-781-JB
Order number Green	116-782-JB
Stainless steel	
Order number	188-617-JB
Waste sacks, blue (1 pack = 250 pieces)	
Accessories	
Order number	243-872-JB

Recycling collection station

- Odour-absorbing and fire-retardant
- Non flammable in accordance with DIN 4102
- Made from quality galvanized steel sheet
- High-quality powder coating
- Lockable doors
- Self closing swing flaps
- Including three or four, 45 litre, galvanized inner bins



Recyclable materials cupboard with 4 inner

Order no. 188-590-JB

Design	4 x 45 litre	3 x 45 litre	2 x 45 litre	1 x 90 litre
External dimensions L x W x H [mm]	1100 x 320 x 975	860 x 320 x 975	620 x 320 x 975	620 x 320 x 975
Order number	188-590-JB	188-591-JB	210-637-JB	210-638-JB

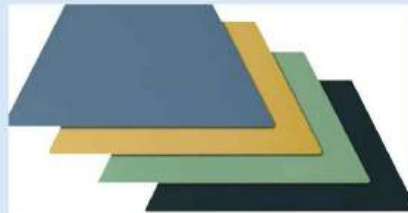


Recyclable material containers, 45 to 120 litres

- Recyclable material container for industry, retail outlets and busy public places
- Fire and odour inhibiting
- Non-flammable, self-extinguishing (tested by TÜV / GS)
- Hand-operated with waste sack holder
- Self closing flap
- Incl. 4 Self closing, sturdy pads in grey, blue, yellow and green for marking
- Reinforced wing door with sturdy stainless steel handle and magnetic closure, additionally fitted with a square lock as standard
- With an easy to use, removable waste sack holder with grip band
- 2 levelling feet at the front
- 4 different coloured, self adhesive pads for waste sorting are supplied



Flap with gas damper for silent closure; the rounded top part prevents waste from falling on the container.



For marking waste sorting options, the recyclable material containers come with a set of self adhesive pads in 4 colours



Sturdy foot pedal in stainless steel



Recyclable material container, manual operation with galvanised inner bin

Design	Hand-operated with waste sack holder			
Capacity [l]	45	60	75	120
External dimensions L x W x H (mm)	400 x 380 x 800	400 x 380 x 900	400 x 380 x 1000	450 x 450 x 1100
Order number	164-288-JB	164-322-JB	164-427-JB	164-456-JB

Design	Pedal-operated with waste sack holder			
Capacity [l]	45	60	75	120
External dimensions L x W x H (mm)	400 x 380 x 800	400 x 380 x 900	400 x 380 x 1000	450 x 450 x 1100
Order number	164-310-JB	164-412-JB	164-441-JB	164-474-JB

Design	Hand-operated with galvanised inner bin			
Capacity [l]	45	60	75	120
External dimensions L x W x H (mm)	400 x 380 x 800	400 x 380 x 900	400 x 380 x 1000	450 x 450 x 1100
Order number	164-294-JB	164-328-JB	164-434-JB	164-465-JB

Design	Pedal-operated with galvanised inner bin			
Capacity [l]	45	60	75	120
External dimensions L x W x H (mm)	400 x 380 x 800	400 x 380 x 900	400 x 380 x 1000	450 x 450 x 1100
Order number	164-316-JB	164-419-JB	164-448-JB	164-484-JB

ORDER AT THE SAME TIME

**Plastic waste sacks
100 µ, blue
(1 pack = 100 pieces)**



Order no. 202-391-JB

Pictogram set (pack = 6 pieces)



Order no. 154-062-JB

Castor kit for recyclable material container with hand operation

Accessories for recyclable material container with manual operation; wheel set with 4 swivel castors, 2 with brakes



Order no. 242-451-JB

Modular recycling bins

The modular recyclable material containers can be joined or extended by adding on extra containers. With 6 colours to choose from, the coloured lids make it easy to sort refuse. Each container comes with a set of pictograms for aiding easy recycling and clips for refuse bags.

- Modular, extendable waste and recycling bins
- Ideal for disposing of all waste products hygienically without unpleasant smells
- Manufactured from weather- and impact-resistant material components



Modular recycling bins consisting of 4 bins, each with 40 litre capacity. (lids are available as an option)

Order no. 137-020-JB

Modular recycling bins consisting of 3 bins, each with 60 litre capacity

Order no. 137-029-JB

(lids are available as an option)

Design	1 x 40 litre	2 x 40 litre	3 x 40 litre	4 x 40 litre	1 x 40 litre extension module
Capacity [l]	40	80	120	160	40
External dimensions L x W x H [mm]	405 x 250 x 570	505 x 405 x 570	760 x 405 x 570	1010 x 405 x 570	405 x 250 x 570
Order number	137-011-JB	137-018-JB	137-019-JB	137-020-JB	137-022-JB
Accessories	Plastic waste sacks, grey (1 pack = 250 pieces)				
Order number	262-554-JB	262-554-JB	262-554-JB	262-554-JB	262-554-JB

Design	1 x 60 litre	2 x 60 litre	3 x 60 litre	4 x 60 litre	1 x 60 litre extension module
Capacity [l]	60	120	180	240	60
External dimensions L x W x H [mm]	405 x 360 x 570	710 x 405 x 570	1060 x 405 x 570	1410 x 405 x 570	405 x 360 x 570
Order number	137-023-JB	137-024-JB	137-029-JB	137-031-JB	137-034-JB
Accessories	Waste sacks, blue (1 pack = 250 pieces)				
Order number	243-872-JB	243-872-JB	243-872-JB	243-872-JB	243-872-JB



Waste bags are simple and quick to secure with the supplied clamps

Accessories	Lid for 40 litre module	Lid for 60 litre module
Order number Grey	137-039-JB	137-061-JB
Order number Blue	137-041-JB	137-062-JB
Order number Yellow	137-042-JB	137-063-JB
Order number Green	137-043-JB	137-064-JB
Order number Brown	137-044-JB	137-065-JB
Order number Red	137-046-JB	137-066-JB

Inner bucket

The inner buckets are manufactured out of hot dip galvanised sheet metal and are anthracite powder coated. When using the inner buckets, the use of trolleys is recommended for transport.



Accessories	Internal bucket for 40 litre module	Internal bucket for 60 litre module
External dimensions L x W x H [mm]	210 x 300 x 530	335 x 310 x 530
Order number	137-067-JB	137-068-JB
Accessories	Plastic waste sacks, grey (1 pack = 250 pieces)	Waste sacks, blue (1 pack = 250 pieces)
Order number	262-554-JB	243-872-JB

Trolley

The trolley enables easy transportation of the bins. The bins slide in and out, so that different numbers of bins and different types of bins can be slotted into the trolley.



Accessories	Trolley	Trolley
Design	For 2 x 40, 3 x 40 or 2 x 60 litre containers	For 4x 40, 3 x 40 or 4x 60 litre containers
Length adjustable from ... to [mm]	510 - 860	1010 - 1410
External dimensions W x H [mm]	415 x 110	415 x 110
Order number	137-069-JB	137-071-JB



Flammex waste paper bin in steel and stainless steel, 15 to 50 litres

- Self-extinguishing in accordance with the Flammex principle
- Ideal for fire protection in many locations
- Flammex principle: in the event of a fire, the combustion gases accumulate under the lid rim and "suffocate" the fire as no more oxygen can get in to the container.



Also for tougher requirements in harsh environments: self-extinguishing, corrosion-protected 50 litre stainless steel waste basket

Capacity [l]	15	30	50
Dimensions Ø x H [mm]	250 x 375	350 x 490	350 x 690
Steel			
Order number Black	172-140-JB	172-145-JB	172-150-JB
Order number Red	-	172-147-JB	172-152-JB
Stainless steel			
Order number	172-144-JB	172-149-JB	172-154-JB



Flammex waste paper bins, 16 and 24 litres, for wall mounting

Self-extinguishing waste bin in accordance with the Flammex principle: in the event of a fire the combustion gases accumulate under the black-coated aluminium lid rim and "suffocate" the fire as no more oxygen can get in the container.

- With tilt function for emptying
- Incl. safety lock and triangular key



Practical tipping function for easy emptying



Capacity [l]	16	24
Dimensions Ø x H [mm]	245 x 340	295 x 370
Order number Red	180-743-JB	180-750-JB
Order number Black	180-745-JB	180-752-JB
Order number Light grey	180-746-JB	180-753-JB
Order number Nickel silver	180-748-JB	180-755-JB

Waste bin sacks, 16 to 60 litres

- In high-quality polyethylene
- High tear resistance



Capacity [l]	16	24	30	60
Opening diameter [mm]	287	344	318	401
Colour	Transparent	Transparent	Grey	Transparent
Pack contents	2000 Item(s)	2000 Item(s)	2000 Item(s)	2000 Item(s)
Order number	165-469-JB	165-470-JB	165-471-JB	165-472-JB

Paper waste sacks, 70 and 120 litre

- Made from 2 ply, wet strength special paper
- Sturdy and stable with cross-form base, also suitable for heavy, angular waste



Capacity [l]	70	120
Opening diameter [mm]	350	446
Pack contents	100 Item(s)	100 Item(s)
Order number	116-711-JB	116-712-JB

Drawstring waste sacks, 120 litres

- With practical drawstring for fast, clean and safe closure without the need for an additional tool
- Manufactured from environmentally friendly polyethylene



Capacity [l]	120
Opening diameter [mm]	446
Colour	Blue
Pack contents	250 Item(s)
Order number	180-689-JB

Spare sacks for wheelie bin, 1000 to 2500 litres

- Practical recyclable material sacks for efficient waste collection
- Specially for high volume recyclable material containers
- Transparent



Capacity [l]	1000	2500
Opening diameter [mm]	955	1338
Pack contents	10 Item(s)	10 Item(s)
Order number	165-578-JB	165-579-JB



Plastic refuse sacks

- Available in 2 sizes, 3 material strengths and 6 colours
- Three material thicknesses to suit the application
- The right sack for every application
- Groundwater-neutral and releases no harmful gases or substances



Capacity [l]	70	120	70	120	120
Material thickness [mm]	20	20	40	40	70
Opening diameter [mm]	366	446	366	446	466
Pack contents	500 Item(s)	500 Item(s)	250 Item(s)	250 Item(s)	250 Item(s)
Order number Transparent	165-481-JB	165-457-JB	116-713-JB	116-714-JB	145-134-JB
Order number Yellow	165-482-JB	165-458-JB	128-410-JB	116-716-JB	145-135-JB
Order number Blue	165-483-JB	165-459-JB	116-717-JB	116-718-JB	145-136-JB
Order number Grey	165-484-JB	165-460-JB	165-462-JB	165-466-JB	-
Order number Red	165-485-JB	165-461-JB	145-534-JB	145-535-JB	145-137-JB
Order number Black	-	-	173-566-JB	173-569-JB	-

Nylon ties

- To seal bin bags

Pack = 1000 Item(s)

Order no. 165-475-JB



Conductive waste bags

- According to TRGS 727
- For all waste bins in areas with explosive atmosphere
- For avoiding mechanical "electro-static" ignition sources
- Free from siliconees



Capacity [l]	120
Opening diameter [mm]	446
Colour	Black
Pack contents	100 Item(s)
Order number	195-361-JB



Waste basket, 45 litres, green, incl. Galvanised pillar

Order no. 137-538-JB

Emptied with the help of the bottom flap, the triangular key is included in the delivery

Waste baskets in steel, 45 litres

- In sheet steel, hot dip galvanised in accordance with EN ISO 1461
- Empty via lockable base flap
- Incl. Triangular key
- "Tidy man" sticker optionally available

Colours



Design	Wall-mounted	With pillar
Capacity [l]	45	
External dimensions L x W x H [mm]	425 x 330 x 590	
powder coated		
Order number Red	195-526-JB	195-527-JB
Order number Blue	137-532-JB	137-537-JB
Order number Green	137-533-JB	137-538-JB
Order number Grey	137-534-JB	137-539-JB
Hot dip galvanised		
Order number	137-529-JB	137-535-JB

NEW



Version with lock (see table)

Waste collectors, 120 litres

- With hinged lid and 1-wing door
- In galvanised sheet steel with high quality powder coating for corrosion protection
- Designed to be fixed to the ground
- Holder for 120 litre waste sack

External dimensions W x H [mm]	450 x 900	500 x 980	440 x 1040
Features	–	–	With lock
Capacity [l]	120	120	120
Order number Green	304-690-JB	–	–
Order number White	304-691-JB	–	–
Order number Red	304-692-JB	–	–
Order number Silver	304-693-JB	–	–
Order number Anthracite	304-694-JB	–	–
Order number Gentian violet	304-696-JB	–	–
Order number Yellow	304-697-JB	–	–
Order number Grey	–	304-698-JB	–
Order number Galvanised	–	304-700-JB	–
Order number Moss green	–	304-699-JB	304-701-JB
Order number Brown	304-695-JB	–	304-702-JB
Order number Micaceous iron ore	–	–	304-703-JB
Accessories			
	Waste sacks 100 µ (pack = 100 pcs)		
Order number	165-476-JB	165-476-JB	165-476-JB

ORDER AT THE SAME TIME

"Keep Britain tidy" label



Transparent / black

Order no. 137-526-JB

Transparent / white

Order no. 137-527-JB



Combined waste bin and ash trays in steel, 38 to 72 litres

- Sturdy stand manufactured from galvanised steel, powder coated
- Weather protection cover and ashtray insert including screen can be removed.
- With removable galvanised inner bin
- Incl. hot dip galvanised base frame to secure it to the floor



Detail: removable hood

With galvanised inner container as standard



Waste bin and ashtray, anthracite, 38 litres

ORDER AT THE SAME TIME



Quartz sand for ashtray, 25 kg

Order no. 116-720-JB

Capacity [l]	38	72
External dimensions L x W x H [mm]	395 x 395 x 910	500 x 500 x 955
Order number Silver	130-245-JB	130-246-JB
Order number Anthracite	129-450-JB	129-455-JB
Order number White	129-446-JB	129-451-JB
Order number Red	129-447-JB	129-452-JB
Order number Green	129-448-JB	129-453-JB
Order number Blue	129-449-JB	129-454-JB

Ashtray and waste bin, 40 and 50 litres

- Sheet metal container (removable)
- Universal mount for wall or post mounting
- Supplied with a triangular key to release the lock holding the bin in place

Capacity [l]	40	50
External dimensions L x W x H [mm]	600 x 310 x 360	685 x 310 x 360
Order number Galvanised cover without ashtray	116-876-JB	116-881-JB
Order number Orange painted cover without ashtray	116-883-JB	116-884-JB
Order number Galvanised cover with ashtray	116-877-JB	116-882-JB
Order number Orange painted cover with ashtray	116-931-JB	116-932-JB



Waste bin 50 litres, galvanised, with ashtray and orange painted cover

Order no. 116-932-JB



Waste bin 50 litres with ashtray, galvanised

Order no. 116-882-JB

ORDER AT THE SAME TIME

Tube post Ø 2" to be set in concrete, height 1500 mm

Order no. 116-893-JB

Tube post with foot plate to screw to the floor, height 1500 mm

Order no. 173-603-JB

Safety ash tray stand

- Cigarettes dropped in are put out quickly as the narrow opening minimises the amount of oxygen that can enter
- The low centre of gravity ensures a high level of stability.
- Incl. galvanised inner container for cigarette ends
- Integrated hook for attachment to the floor



Perforated stainless steel plate for stubbing out cigarettes.

Integrated eyelet for anti-theft protection, e.g. for a lock.

To empty the aluminium inner container, the upper part of the ashtray can simply be removed after loosening the two knurled-head screws.

External dimensions L x W x H (mm)	430 x 430 x 1140
Order number Black	279-709-JB
Order number Grey	281-559-JB



Slim ashtray stand, elegant design

- With user-friendly height of opening
- With safety screen and floor plate
- In powder coated aluminium and steel design for outdoor use
- Easy to empty



Easy to empty: unlock the top using the key then remove



The roomy inner bucket can be simply removed from the ashtray with the handle

External dimensions L x W x H (mm)	150 x 356 x 1041
Order number Silver	164-358-JB
Order number Black	164-357-JB



Smokers shelters

- Optimum weather protection for your smokers
- The large transparent roof in polycarbonate ensures a clean, welcoming atmosphere
- Sturdy construction - either in galvanised steel or weather-resistant wood
- Includes bench
- Supplied flat pack for customer assembly



Smoking shelter with wooden construction, for 3 people, free standing, including bench seat



Smoking shelter with steel design, for 6 people, free standing, including bench seat



Smoking shelter with steel design, for 6 people, for wall mounting

Length of legs [in]	For 3 people		For 6 people		For 9 people	
	Wall-mounted	Free standing	Wall-mounted	Free standing	Wall-mounted	Free standing
Design						
External dimensions W x D x H [mm]	2350 x 1220 x 2205		2350 x 2260 x 2205		2350 x 3300 x 2205	
Order number Steel	181-984-JB	181-985-JB	181-986-JB	173-446-JB	181-987-JB	173-447-JB
Order number Wood	210-529-JB	210-530-JB	210-531-JB	210-533-JB	210-534-JB	210-535-JB

Canopy smoking shelter

- For quick and easy mounting at the desired location
- Ideal for company grounds and public areas: optimum weather protection for up to 3 people
- Weather-resistant design in galvanised steel
- Sturdy roof in transparent polycarbonate

Smokers shelters	For 3 people
Design	Projecting roof
External dimensions W x D x H [mm]	2350 x 1220 x 500
Order number	181-988-JB



Safety and efficiency combined

Our diverse range of safety vacuum cleaners offers powerful cleaning solutions with reliable filtration and robust design - even in ATEX zones.

They ensure safe collection and disposal of harmful particles, liquids and dusts, and are characterised by simple operation and optimum performance.



Safety vacuum cleaner for hazardous dusts

Order no. 218-631-JB