

Glass Processing Machinery

This is Bohle.

The Bohle Group is Europe's leading manufacturer and supplier of tools, machinery and accessories for glass processing and glass finishing. The family business, founded in 1923, is now represented by over 300 employees at thirteen locations in Germany and abroad. Divided into the eight product divisions Handling, Glass Cutting, Glass Bonding, Glazing, Tools, Machinery, Fittings and Framing, the total product range is precisely tailored to the respective customer groups from trade, industry and retail. Quality is the leading principle at Bohle – in every area. To live up to this standard, the company develops and manufactures a diversified range of products themselves – like glass processing machines, for example.



Bohle is close to the customer.

Bohle is an international company – with German roots. The products are exported to many countries all over the world; exports account for about 60% of business. In order to best recognize requirements which vary from market to market, Bohle is close to the customer: with two German locations, eleven subsidiaries abroad and over 100 agents worldwide.

You can find Bohle offices in Germany, Estonia, England, Italy, the Netherlands, Austria, Russia, Spain, South Africa and Sweden.



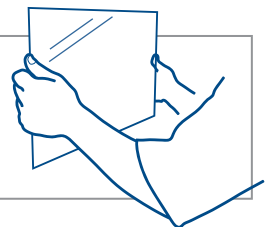
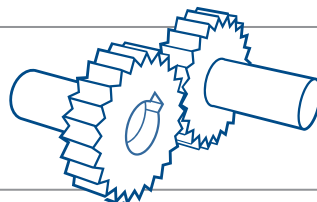
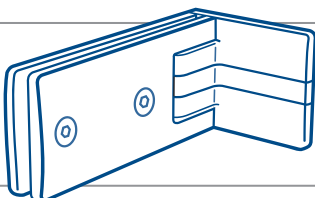
Top performance is our standard.

Since the early 1990s, Bohle has been a leading manufacturer of glass processing machinery. Products for automated as well as machine glass processing for the trade and industry are developed and produced in the two plants in Torgau (Germany) and Madrid (Spain). A big advantage: when developing the range of machinery products, employees can draw upon extensive experience in glass processing. The analysis and optimisation of production and work processes, the provision of individual machine solutions as well as full service even after machine start-up are expressions of the Bohle service philosophy.

At the plant in Torgau a variety of glass processing and related machines such as belt and twin belt grinding machines, conventional and vertical drilling machines as well as coolant cleaning systems are produced. The Spanish plant in Madrid is responsible for the production of glass transporting pliers, vacuum lifting systems, cutting tables, glass storage systems and belt grinding machines, for example.

This product catalogue gives you an overview of the comprehensive range of products from the Bohle product division Machinery. On request we will be happy to send you technical details for the machines that you are interested in. *Please note that not every machine is available in every country and that specifications are subject to change in the course of technical developments.* For further information please contact us.

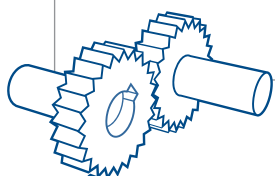
Regardless of which glass processing machine you select: you can always count on top performance. Because Bohle machines are developed and manufactured by glass professionals for glass professionals.



Contents

01	Grinding	6-14
	Twin Belt Grinding Machine	6
	Belt Grinding Machines	8
	Disc Grinding Machines	11
	Automatic Straight Line Edgers	12
	Edge Processing Machines	14
02	Drilling	15-19
	Automatic Drilling Machines	15
	Manual Drilling Machines	17
03	Sawing	20
04	Filtering and Cooling	21-24
	Sedimentors	21
	Centrifuges	22
	Filtering Systems	23
	Coolant Circulation Systems	24
05	Storing and Lifting	25-31
	Glass Storage Systems	25
	Veribor Lifting Systems	26
	Glazier's Tilting Tables	30
06	Sandblasting	32-33
	Automatic Sandblasting Cabinets	32
	Manual and Portable Sandblasters	33
07	Washing	34
08	Power Tools	35
09	Consumables	36-37

■ Bohle twin belt grinding machines are used for efficient arissing of glass panes. These machines are available in diverse dry and wet grinding models and are especially suitable for multi-shift, high production use in industrial glass processing.



Grinding area

Twin Belt Grinding Machine - Twin Belt

Bohle twin belt grinding machines for dry grinding are ideally suited for these applications thanks to high-performance filtering systems. Scratches are avoided because the glass surface stays clean when grinding.

- Manual machine for dry grinding
- High quality grinding for sensitive glass like low-E
- Optimum cooling by special air guides
- Powerful filter technology ensures that workplace conforms to standards
- Especially high productivity when diamond belts are used
- Optional air cushion table for easy handling and scratch prevention

Product example - Twin Belt for dry grinding

BO 80.12-T	Twin Belt KSA 15T, for straight edges and shapes
BO 80.13-T	Twin Belt Compact KSA-C 15T, for straight edges
	Special models on request



Twin Belt Compact KSA-C 15T with air-cushioned table and filtering system

» Optional Accessories «

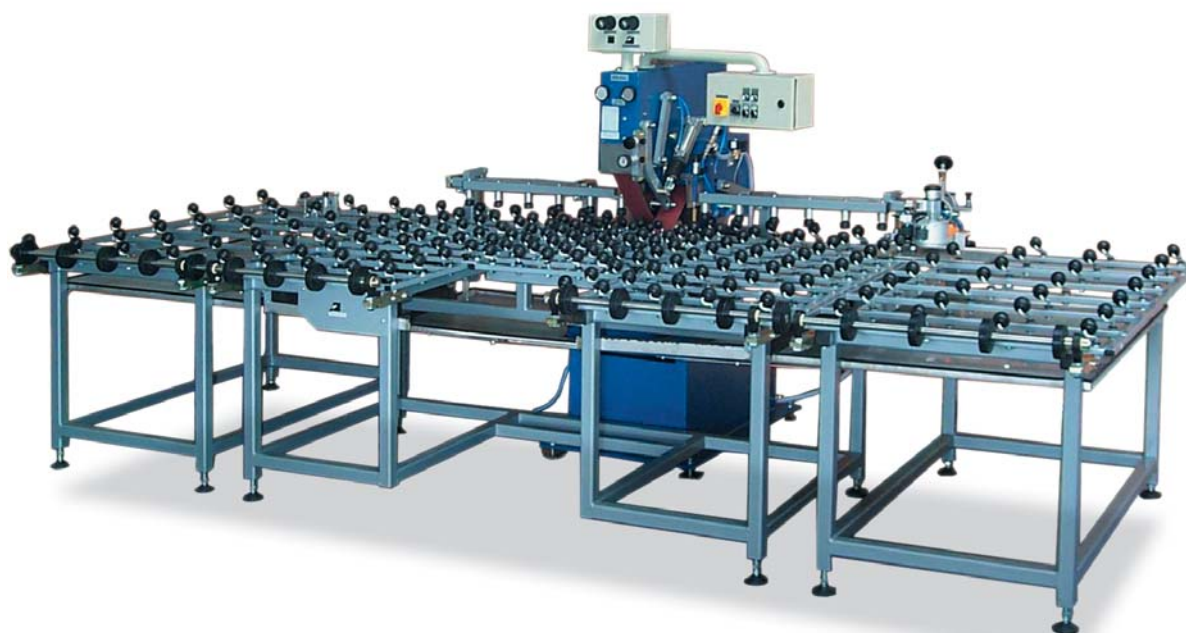
- Castor roller worktable and extensions
- Air-cushioned table, adjustable to glass weight
- Support rollers for large glass panes
- Pneumatic folding stopper for positioning
- Corner edging devices
- Coolant circulation systems
- Filtering system for dry grinding

Twin Belt Grinding Machine - Twin Belt

- Manual machine for wet grinding
- High performance for perfect edge quality
- Adjustable glass thickness and depth of arris
- Especially high productivity when diamond belts are used

Product example - Twin Belt for wet grinding

BO 80.12-P	Twin Belt KSA 15/30, for straight edges and shapes
BO 80.13-P	Twin Belt Compact KSA-C 15/30, for straight edges
	Special models on request



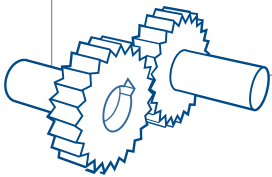
Twin Belt KSA with comprehensive accessories



The operating mode "grinding at the hard belt" (1) allows uniform arrending (2) without producing notorious "swords" or "knives" (3) at the corners.

Belt Grinding Machine - Master Belt

■ For every application the right solution: Bohle glass belt grinding machines are available in the series Master Belt, Profi and Basic. All the models can be optionally equipped with comprehensive accessories. At Bohle, top quality workmanship ensuring a longer service life is a matter of course: Screws, sheet metal and roller axles which are exposed to water are made of stainless steel; the machine housing is galvanized and lacquered. Smooth running is achieved by rubber-coated rolls.



- Manual machine with two belt speeds or continuously adjustable control
- Including castor roller table for accurate guiding and support of all pane sizes
- Versatile and flexible for practically all grinding tasks
- Large contact roll (Ø 200 mm) for minimal hollow grinding
- Grinding and arrossing unit with easy handwheel adjustment
- Additional sockets for coolant circulation system, additional tools and machine lamp
- Modular system: Retrofitting and expansion possible at any time
- Accomodates all standard abrasive belts (100 x 1830 mm)



Master Belt 11/22 with typical accessories

Product examples - Master Belt

BO 80.5	Master Belt 11/22, 11 m/s and 22 m/s, 2-speed
BO 80.6	Master Belt 15/30, 15 m/s and 30 m/s, 2-speed
BO 80.6-S	Master Belt 8/30-S, 8 m/s to 30 m/s, continuously adjustable
BO 80.6-SE	Master Belt 8/25-SE, 8 m/s to 25 m/s continuously adjustable, 230V single-phase
	Special models on request

» Optional Accessories «

- Table extensions and pull-outs
- Coolant collecting trays and circulation systems
- Grinding tables for small panes
- Stopper rollers for grinding circular glass panes
- Electrical grinding unit for circular glass sheets
- Arrossing unit and grinding unit for corner radii



Contact roll in grinding position

Belt Grinding Machine - Profi Belt

- Manual machine with one belt speed
- Including castor roller table for accurate guiding and support of all pane sizes
- For comprehensive grinding tasks
- Large contact roll (Ø 200 mm) for minimal hollow grinding
- Additional sockets for coolant circulation system, additional tools or machine lamp
- Modular system: Retrofitting and expansion possible at any time
- Accommodates all standard abrasive belts (100 x 1830 mm)

Product examples - Profi Belt

BO 80.3-1	Profi Belt 11, 11 m/s standard model with castor roller table
BO 80.3-2	Profi Belt Eco, 11 m/s economical basic model
BO 80.3-K	Profi Belt 11 K, with folding castor roller table
	Special models on request



Profi Belt 11

» Optional Accessories «

- Table extensions
- Table pull-outs
- Narrow stopper roller rail
- Stainless steel coolant collecting trays
- Coolant circulation systems
- Height adjustment of grinding and arrissing unit for different glass thicknesses
- Grinding tables for small panes
- Stopper rollers for grinding circular glass panes
- Arrissing unit for corner radii



Easy belt exchange due to large side door

Belt Grinding Machine - Basic Belt

- Manual machine with one belt speed
- For basic grinding
- Trouble-free grinding of shapes at the "soft belt"
- Support rollers allow easy grinding at the contact roll
- Easy belt exchange
- Accommodates all standard abrasive belts (100 x 1830 mm)

Product example - Basic Belt

MQ 55004.00

Basic Belt, 15 m/s



Basic Belt

» Optional Accessories «

- Coolant circulation systems
- Castor roller table

Disc Grinding Machine - Plano 600

- Frequency controlled speed with electronic braking
- High precision turning disc (Ø 600 mm)
- Vibration-free operation for optimum results
- Quick and easy exchange of grinding discs by magnetic film
- Coolant supplied centrally through the axle of the turning disc
- Additional cooling via articulated hose
- Rotates clockwise and anti-clockwise for optimum utilisation of the abrasive
- Coolant collecting tray made of stainless steel with guiding elements to reduce water spray

Product example - Plano 600

BO 81.3-S

Plano 600-S, continuously adjustable speed



Plano 600-S with digital keyboard

» Optional Accessories «

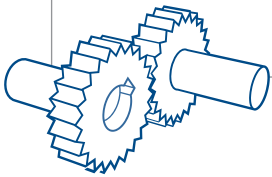
- Adjustable stopper system, fold-away
- Prism for grinding cylindrical parts
- Angle support 45°
- Storage cart for efficient storage of grinding discs
- Coolant circulation system



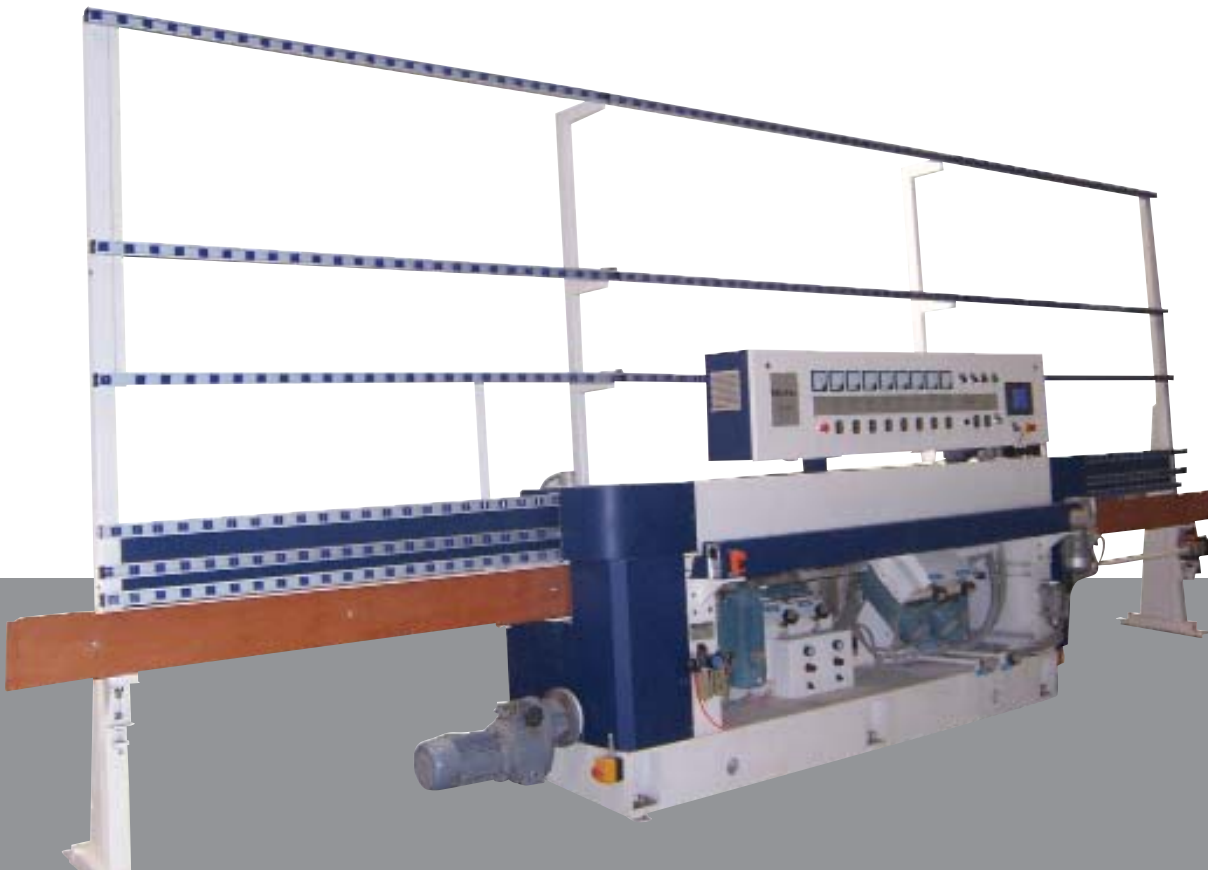
Prism with stopper system for reliable processing of cylindrical parts (optional)

Automatic Straight Line Edgers

■ The new vertical straight line edgers from Bohle are suitable for the efficient grinding, polishing and arripping of straight edges. The machines are available with 4, 6, 8 or 9 spindles and process glass panes that are 3 - 28 mm thick and weigh up to 300 kg. The working speed is infinitely adjustable from 0.8 to 3 metres per minute.



- Automatic vertical grinding machine for edge and arris
- Easy operation by PLC control
- Automatic or manual grinding wheel setting
- Grinding wheel quick exchange system
- Excellent grinding results
- Sturdy, vibration-free construction
- Minimal maintenance costs
- Very good value for money



Automatic straight line edger with 8 spindles

Product examples of automatic straight line edgers



BO SL 4328M Automatic straight line edger with 4 spindles, manual grinding wheel setting

BO SL 4328A Automatic straight line edger with 4 spindles, automatic grinding wheel setting



BO SL 6328A Automatic straight line edger with 6 spindles, automatic grinding wheel setting



BO SL 8328A Automatic straight line edger with 8 spindles, automatic grinding wheel setting



BO SL9328A Automatic straight line edger with 9 spindles, automatic grinding wheel setting



Control unit automatic straight line edger with 8 spindles

Edge Processing Machine - Profi Shape Beveller

The Bohle Profi Shape Beveller is a versatile, semi-automatic machine for grinding bevels. Edges of round or oval glass of different thicknesses can be ground and polished quickly and easily with this machine. The electronic version has comfortable touch screen controls for setting the speed and working height. The Profi Shape Beveller is suitable for every workshop that needs a solid, universal processing machine for small and medium production batches.

- Semi-automatic horizontal machine for grinding bevels
- Beveling and arrissing of glass thicknesses between 3 mm and 25 mm
- Bevel angle of 0° to 45° with max. bevel width of 45 mm
- Comprehensive edge processing possibilities
- Adjustable processing speeds
- Processing of glass panes with a length of 100 to 2400 mm
- Integrated coolant circulation system

Product example - Profi Shape Beveller

BO SBV2400

Profi Shape Beveller



Profi Shape Beveller

» Optional Accessories «

- Worktable for small objects

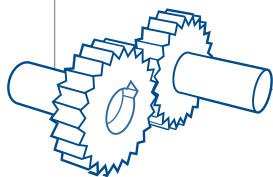


Display



Profi Shape Beveller
in use

■ Automatic glass drilling machines are considered standard equipment for every glass processor. These machines prove themselves daily, particularly for universal processing of glass panes of diverse sizes. The Bohle automatic glass drilling machines distinguish themselves by their easy adjustability, programmable setting parameters and spacious work area. A patented system for feed optimisation is the highlight of the top machines.



Automatic Drilling Machine - Super Drill

- Double-sided horizontal drilling machine with pneumo-hydraulic or electric feed drive
- Contact-free digital measuring systems for drilling depth
- Easy digital adjustment of the drilling depth at the meter
- Easy zero setting of the drill by push-button
- Continuously adjustable feed of both spindles
- Drill diameters from 3 to 100 mm
- Long reach up to 1300 mm

Product example - Super Drill

BO 79.9-2D	Super Drill Eco 2/1000-2ad with digital feed measuring system
BO 79.10-2	Super Drill 2/1300 with electrical feed measuring system
	Special models on request



Super Drill Eco with typical accessories

» Optional Accessories «

- Castor roller tables of various sizes
- Stainless steel coolant collecting trays
- Mechanical positioning stoppers
- Laser positioning device
- Articulated halogen lamp
- Coolant circulation system
- Digital stopper systems

Automatic Drilling Machine - Verti Drill

- Double-sided vertical drilling machine
- Menu prompting by intelligent touch screen controls
- Can store up to 120 different drilling programs
- Maximum traverse path 1310 mm
- Space-saving vertical design
- For glass thicknesses from 3 to 30 mm
- Drill diameters from 4 to 85 mm
- Ideal for series production with high repeat accuracy

Product example - Verti Drill

BO VD131A

Verti Drill, 1310 mm, automatic



Verti Drill



Verti Drill in use



Verti Drill controls

Manual Drilling Machine - Profi Drill V

Both spindles of the vertical, double-sided drilling machines of the series Profi Drill are manually operated from the front. The machines are especially suitable for quickly drilling precise holes in larger glass panes. A motor-driven lifting frame ensures easy handling of the glass panes.

- Double-sided vertical drilling machine
- Electronic speed control via frequency converter
- Digital adjustment and automatic positioning of vertical drilling values
- Space-saving vertical design
- Easy manual operation of the drill heads without tedious setup
- Coolant control via solenoid valves
- Drill diameters from 3 to 80 mm (optionally up to 100 mm)

Product examples - Profi Drill V

BO 79.8-S	Profi Drill V 2/900-S, 2000 x 1300 mm
BO 79.8-1S	Profi Drill V 2/900-1S, 2500 x 1300 mm
BO 79.8-2S	Profi Drill V 2/900-2S, 3000 x 1300 mm
	Special models on request



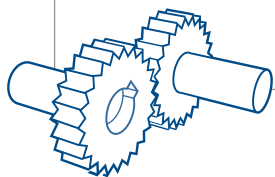
Profi Drill V2/900-S

» Optional Accessories «

- Stopper lengthwise with digital display
- Stopper rail for serial drilling
- Glass support for small panes
- Coolant circulation system with pump

Manual Drilling Machine - Profi Drill

■ As in the past, glass drilling machines with manual feed are part of the basic equipment of every glazier's workshop. Especially for the universal processing of small and medium-sized glass panes in small quantities, these machines are indispensable. Because the requirements are diverse, in this segment Bohle offers double-sided as well as basic one-sided tabletop drilling machines. These machines are very sturdy and easy to adjust.



The manual operation of both spindles of the Profi Drill series of double-sided horizontal glass drilling machines is done from above. This allows quick and precise drilling.

- Double-sided horizontal drilling machine
- Electronic speed control via frequency converter
- Long reach of 1000 mm
- Sturdy construction - also suitable for countersinking
- Professional drill heads with precise, smooth-running drill spindles
- Easy operation and maintenance
- All parts made of stainless steel, galvanised or lacquered twice

Product example - Profi Drill

B0 79.3-S

Profi Drill 2/1000-S

Special models on request



Profi Drill with accessories

» Optional Accessories «

- Table extensions with castor rollers
- Lateral and front additional supports
- Laser positioning aid
- Positioning stoppers
- Articulated halogen lamp
- Coolant circulation systems

Manual Drilling Machine - Pico Drill

Pico Drill from Bohle is an economical one-sided drilling machine with continuous speed adjustment, which can be used as a portable tabletop model or as a drilling table. Its very compact design makes the Pico Drill ideal for use at the construction site or in the workshop. The safety switch as standard significantly reduces the risk of accidents. The Pico Drill 100 L version with point laser positioning enables much easier alignment of the drilling machine on the glass.

- Powerful drill with continuous speed control
- Easy adjustment of drilling depth by stopper
- Good support of the glass by different drill templates
- Easy electrical connection with shock-proof plug and safety switch as standard
- For drill diameters from 3 to 100 mm
- Compact additional table optional

	Product examples - Pico Drill
BO 79.250	Pico Drill 100 T (continuous speed control)
BO 79.270	Additional table for Pico Drill 100 T, L x W 1350 x 890 mm
BO 79.200	Pico Drill 100, 230 V / 50-60 Hz
BO 79.201	Pico Drill 100, 110 V / 50-60 Hz
BO 79.200L	Pico Drill 100L with point laser
BO 79.201L	Pico Drill 100L, 110 V / 50-60 Hz with point laser
BO 79.210	Laser



Pico Drill 100 L with laser



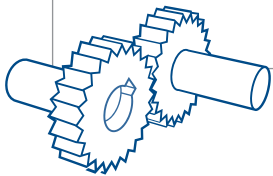
Pico Drill 100 T with table



Laser positioning for Pico Drill 100

Sawing Laminated Glass

■ Laminated glass is being used more and more in many areas. In response to this trend, Bohle offers vertical glass saws with excellent value for money.



- Space-saving vertical design
- Can be used on laminated and bulletproof glass as well as cast resin laminated glass
- Saw head angle adjusts to 45° and 90°
- For glass up to: 50 mm thick, 3210 x 5000 mm, 2,000 kg
- Automatic, controllable feed with line laser
- Automatic stopping at stopper
- Closed water circulation as standard equipment
- 350 mm sawblade



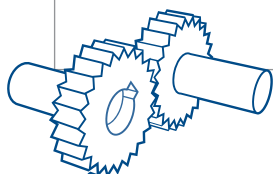
Vertical glass saw

Product examples of saws for laminated glass

MQ 55007.02	Vertical glass saw, motor-driven, adjustable cutting speed
MQ 55007.00	Vertical glass saw, manual drive, feed by crank handle

Sedimentors

■ Using machine coolant for a long time is not only better for the environment but also for your wallet. The new coolant cleaning systems from Bohle can help you do that. Thus the costly cleaning of the machine purifying system is greatly reduced. Further advantages of clean coolant: longer service life of tools and significantly improved processing quality of the glass.



Bohle Sedimentors work in two steps: Coarse glass dust is continuously separated from the coolant during circulation as a result of an optimal tank design with special features (effective sedimentation). Then fine particles are separated out in batch processes. In an automated cycle aided by optimised flocculant, the system binds even the finest glass particles, thus producing practically clear water for the system.

- Practically clear water for the system using effective flocculant
- Much improved processing quality, especially of polishing
- Time and effort to clean the glass processing equipment is reduced significantly
- Compact, space-saving system
- Decentralised solution for use with one or more machines

Product examples for Sedimentors

BO 85.10	Sedimentor 2.4P, fully automatic, powder flocculant, 2.4 m ³
BO 85.15	Sedimentor 2.4F, fully automatic, liquid flocculant, 2.4 m ³
BO 85.20	Sedimentor 1.0P, fully automatic, powder flocculant, 1.0 m ³
BO 85.25	Sedimentor 1.0F, fully automatic, liquid flocculant, 1.0 m ³
BO 85.30	Sedimentor 0.3 mini F, semi-automatic, liquid flocculant, 0.3 m ³
BO 85.35	Sedimentor 0.3 mini P, semi-automatic, powder flocculant, 0.3 m ³
	Special models on request

Sedimentor 2.4



» Optional Accessories «

- Pumps for contaminated water
- Collecting systems for contaminated water
- Connection kit for customer assembly
- Optimised flocculant

Centrifuges

The new fully automatic coolant centrifuges from Bohle work without filtering agents. Requiring only a minimum of space, they provide for significantly less cleaning cost and effort of the machine purifying systems. With a water flow of 80 or 90 litres per minute, the energy-saving centrifuges are ideal for the coolant cleaning requirements of smaller processing machines.

- Much improved processing quality, especially of polishing
- Time and effort to clean the glass processing equipment is reduced significantly
- Longer service life of tools
- Easy exchange of sludge collector
- Easy operation
- Top model Turbo WZ 90 with even better cleaning power and increased flow rate

Product examples of Centrifuges

BO 85.60	Turbo WZ 90
BO 85.50	Standard WZ 80



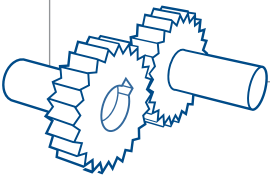
Centrifuge with draining display

» Optional Accessories «

- Pump for contaminated water
- Draining display with timer
- Fine cleaning of the coolant
- Collecting systems for contaminated water
- Connection kit for customer assembly

Dust Filtering Systems

■ Dry grinding as well as other surface-erosive processes (e.g. sandblasting) produce dust which must be extracted and filtered out as near as possible to the site where it originates. For this purpose Bohle offers powerful filtering systems specially designed for extracting aggressive glass dust. Used together with Bohle twin belt grinding machines, these filtering systems fulfil the strict environmental regulations for set-up at the workplace.



- Certified for set-up directly at the workplace
- High suction rating for good cleaning of ground glass panes
- Special filter cartridges especially for glass dust
- Automatic filter cleaning with pressurized air
- Minimal generation of noise thanks to sound-absorbing filter housing

Product examples of dust filtering systems

BO 89.200	Filtering system for glass dust extraction
BO 89.210	Compact filtering system for glass dust extraction

Compact filtering system

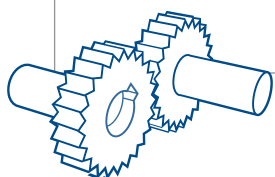


» Optional Accessories «

- Connecting material

Coolant Circulation Systems

■ Nowadays, whenever glass processing machines are used, coolant circulation systems should naturally be on hand as well. Not only do such systems offer significant potential for cutting water costs, but the resulting longer service life of tools also helps to amortise the investment quickly. A nice side effect: your glass processing results are also improved due to optimum cooling and the possibility to use cooling lubricants.



- Water consumption is reduced significantly
- Cooling lubricants can be used, resulting in improved glass processing, extension of service lives of tools and reduction of effort required for cleaning
- Water and waste water connections are not needed at the machine site
- No costly drainage systems required
- Sludge can be easily removed
- Special chamber system improves cleaning of the water

Product examples of Coolant Circulation Systems

BO 78.82	KUS 2, 50 litres, 60 l/min
BO 78.82-1	KUS 2, 50 litres, 100 l/min
BO 78.95	KUS 3, 100 litres (two containers), 60 l/min
BO 78.95-1	KUS 3-1, 100 litres (two containers), 100 l/min
BO 78.96-1	KUS 4-1, 200 litres (four containers), 100 l/min



Coolant circulation system KUS-3

» Optional Accessories «

- Dispensing system for cooling lubricant
- Transport trolley for KUS 2, otherwise standard
- Coolant concentrate

Transport and Storage Cart

- Versatile cart for all kinds of flat glass as well as sheet material (wood, stone, etc.)
- Solid steel frame with four castor rollers
- Thick rubber linings protect the glass
- Two hooks for loading the transport cart with a crane



Transport and Storage Cart

Glass Storage System

The Bohle automatic glass storage system was designed for optimum and comfortable storage of panes up to a size of 3250 mm x 2250 mm. The individual elements can be moved sideways hydraulically. The basic equipment, which consists of eight modules, can easily be expanded.

Product examples

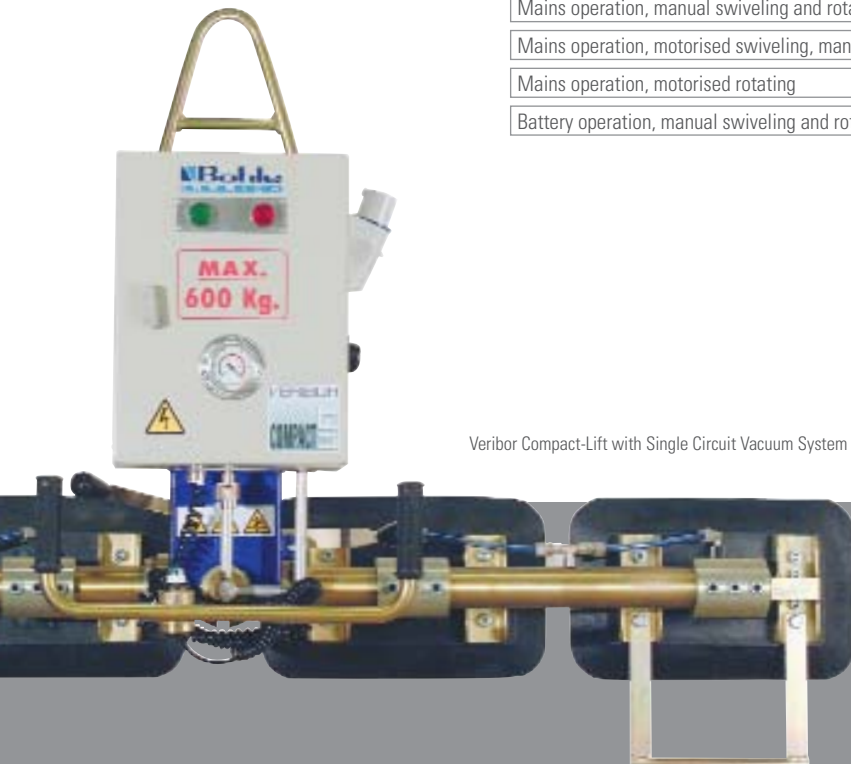
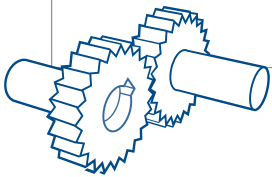
MQ 66100.16	CTV1, Transport and storage cart, max. load 1500 kg, dimensions 1800 x 900 x 1600 mm
MQ 66009.02	Optional guard against tilting; is inserted into the frame
MQ 66009.01	CMH1, Glass storage system, 3000 kg storage capacity per module
MQ 66009.03	CMH2, Glass storage system, 1500 kg storage capacity per module
MQ 66009.04	CMH3, Glass storage system, 6000 kg storage capacity per module

Glass Storage System



Veribor Lifting Systems

■ Lift comfortably, safely and reliably: All Bohle vacuum lifting systems are equipped with large suction pads which ensure a safe and reliable gripping surface. Your investment is safe, too. The sturdy construction of Bohle lifting systems results in an especially long service life. The battery versions offer great flexibility because they can be operated either by a 230V power supply or independently by rechargeable battery. Detailed information can be found in our Handling catalogue, which we will gladly send you on request.



Lift, rotate and swivel up to a ton – and do so safely and comfortably? No problem with Compact-Lift, the powerful yet space-saving lifting system for safe, reliable glass handling. With the comprehensive equipment like a central rotating and swivelling unit, cable remote controls or suction plates with integrated valve for quick attachment, even the heaviest loads are easy to manage. Veribor Compact-Lift is also available with dual circuit vacuum system for use at construction sites.

Veribor Compact-Lift with Single Circuit Vacuum System

- Quick attachment to the glass pane thanks to integrated valves
- Suction pads can be individually shut off for smaller loads
- Central rotating and swiveling unit, optionally motor-assisted
- For flat or curved surfaces
- Pump and electrical system optimally housed and protected
- Clearly arranged, user-friendly operating and display instruments

Available models

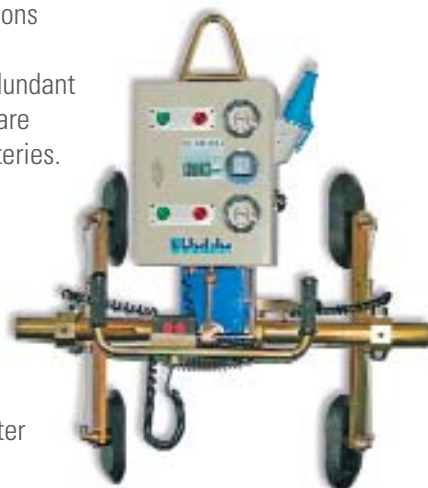
	flat surface	curved surface
Mains operation, manual swiveling and rotating	✓	✓
Mains operation, motorised swiveling, manual rotating	✓	✓
Mains operation, motorised rotating	✓	✓
Battery operation, manual swiveling and rotating	✓	✓

Veribor Compact-Lift with Single Circuit Vacuum System for Flat Surfaces

Veribor Compact-Lift with Dual Circuit Vacuum System

If vacuum lifting systems are to be used at construction sites, special safety regulations must be observed. Bohle lifting systems with dual circuit vacuum systems fulfil the EN 13155 standards for operation at construction sites. These systems have two redundant vacuum circuits that ensure a total safety factor of four. For extra flexibility, models are available which can operate via mains power supply as well as by rechargeable batteries.

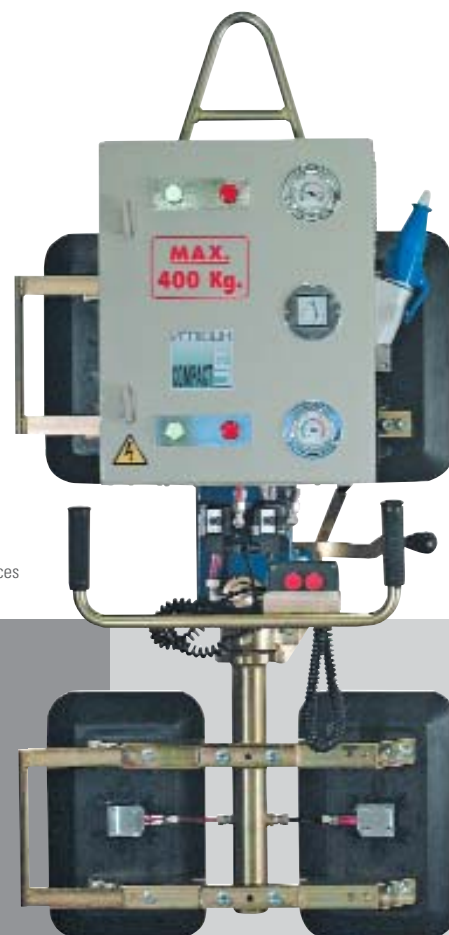
- Lifting system with two redundant vacuum circuits
- Approved for operation at construction sites
- Two vacuum displays for each circuit
- Continuous display of vacuum status by red and green lights as well as manometer
- Otherwise like Compact Lift with single circuit vacuum system



Veribor Compact-Lift with Single Circuit Vacuum System for Curved Surfaces

Available models

	flat surface	curved surface
Mains operation, manual swiveling and rotating	✓	✓
Mains operation, motorised swiveling, manual rotating	✓	✓
Battery operation, manual swiveling and rotating	✓	✓



Veribor Compact-Lift with Dual Circuit Vacuum System for Flat Surfaces

» Optional Accessories «

- Cart for Compact-Lifts (BO CZ1)
- Spare suction plate for textured surfaces, non-slip with sponge rubber seal (BO CZS003)

Veribor Uni-Lift

The Uni-Lift series of lifting systems are very flexible and universally applicable. Due to its low weight of approx. 30 kg and its independence of mains power supply, the battery-operated Uni-Lift is ideal for installation work at construction sites. Exchanging large shop window panes or assembling conservatories is no longer a problem. (Dual circuit vacuum system model with four suction discs)

- Low unladen weight
- Horizontal or vertical carrying position by 90° locking of suction discs
- Powerful rechargeable battery
- Visual and acoustical warning signal in case of vacuum loss
- Load capacities up to 300 kg



Uni-Lift



Veribor Uni-Lift suction disc

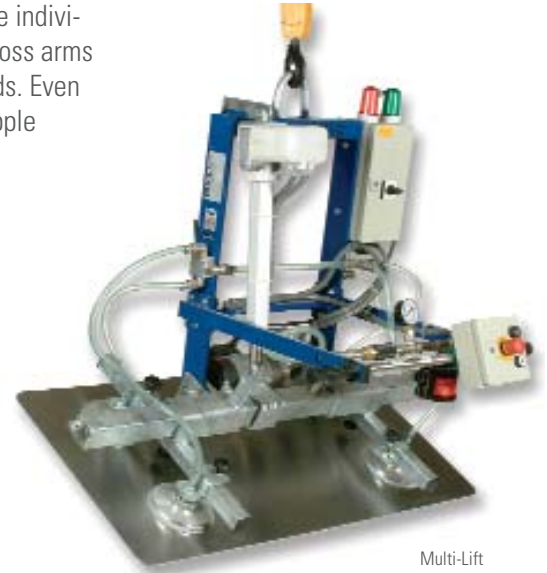


Suction disc
in vertical carrying position

Veribor Multi-Lift

The Veribor Multi-Lift series has been designed as a modular system and can be individually configured to meet diverse requirements. The variable arrangement of cross arms and suction plates allows quick and easy adjustment to different transport goods. Even materials with textured surfaces like corrugated sheet metal or chequer and nipple plate can be transported with special, optionally available suction pads.

- One-person operation
- Suitable suction pads available for almost all material surfaces
- Optional swiveling by 90°, turning by 180°
- Articulated telescopic handle for extreme material positions
- Hot-dip galvanised cross beams



Multi-Lift

Veribor Clad-Lift

The Veribor Clad-Lift is suitable to lay all standard aluminium or steel sandwich elements horizontally as well as vertically. With spring bearing suction pads and adaptable extensions, roof panels can also be mounted.

- Battery operated - no mains power supply required
- Swivels by 90°, can be locked in horizontal or vertical position
- Optional extension beams for panels up to 14 m
- Load capacities up to 240 kg



Clad-Lift

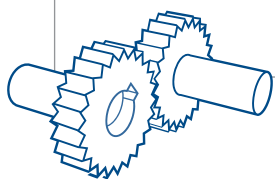


Veribor Multi-Lift in use



Detail of Veribor Clad-Lift cross beam

■ The top quality Bohle glazier's tilting tables offer excellent value for money and can be used as cutting tables as well as work areas. They are available as a standard manual model or with a pneumatic or hydraulic tilting mechanism and breaking rail. Wheels are included as standard and offer greater mobility; at the same time the tables can be securely locked into position at their final destination. All the tables are lined with black felt.



Glazier's Tilting Tables

Bohle standard glazier's tilting tables are ideal for smaller workshops, as a starter model or as a supplementary table in a larger workshop. The tilting function of these models is done mechanically.

- Solid, lacquered steel tube frame with opening for 150 kg counterweight
- Felt cover with solid wooden framing protects the glass when being set down
- Manual tilting function with loading aid, glass stopper and air suspension
- Four steerable wheels, two with locking mechanism

Automatic Glazier's Tilting Tables

Bohle professional glazier's tilting tables are suitable for many applications in the workshop and in large companies. The tilting function of these models is done either pneumatically or hydraulically, depending on the model. Two breaking rails, operated by a foot pedal, facilitate the opening of cuts lengthwise and crosswise. The standard air cushioning function allows glass to be positioned with ease.

- Automatic raising and lowering up to max. 250 kg
- With loading aid and glass stopper
- Easy positioning of glass thanks to air cushioning
- Two breaking rails, (lengthwise and crosswise, operated by foot switch)
- Felt cover with solid wooden framing protects the glass when being set down
- Solid steel construction guarantees dimensional stability when cutting
- With opening for 250 kg counterweight
- Support surface 325 x 245 x 85 cm

» Optional pneumatic loading aid «

The pneumatic loading aid comprises two pistons which lift the glass approx. 8 cm from the tabletop. The resulting gap allows glass panes to be picked up and set down easily and conveniently with a loading aid (e.g. Bohle glass transporting pliers BO 50 001 15).

Automatic Glazier's Tilting Table with Manual Cutting Bridge

The Bohle MB5S professional tilting table is additionally equipped with a manual cutting bridge suitable for glass thicknesses from 2 to 19 mm thick. The tilting function is done hydraulically. Two breaking rails, operated by a foot pedal, facilitate the opening of cuts lengthwise and crosswise. The standard air cushioning function allows glass to be positioned with ease.

- Four pneumatic loading aids, glass stopper
- Manual cutting bridge with Bohle wheel holder BO 416
- Handwheel for cross cuts, manual pulling for longitudinal cuts
- With opening for 250 kg counterweight

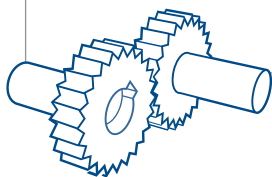
	Product examples of glazier's tilting tables
MQ 66007.01	MB Standard, 250 x 180 x 85 cm (L / W / H)
MQ 66007.02	MB 1 Standard, 300 x 200 x 85 cm
MQ 66000.22	MB 2 pneumatic, with breaking rail, 325 x 245 x 85 cm
MQ 66000.29	MB 5 hydraulic, with pneumatic breaking rail, 325 x 245 x 85 cm
MQ 66000.23	Pneumatic loading aid for MQ 66000.22/29/32
MQ 66000.32	MB5S, with cutting bridge, 422 x 335 x 92 cm



Glazier's Tilting Table MB 2

Automatic Sandblasting Cabinets

■ Sandblasted glass is being increasingly used in architecture as well as in the construction of furniture. The Bohle sandblasting systems of the Vento series have been designed for decorative blasting of glass both for artistic as well as commercial purposes. The blasting systems are available in various models – from the manually operated economical model up to the programmable, fully automatic system with microprocessor control, covering practically every imaginable application.



All the work steps of the fully automatic sandblasting systems of the Vento series are controlled by programmable microprocessor controls. No monitoring or other action by operating personnel is required. Depending on the model, glass panes up to 260 cm high (or higher, when the cabinet is opened) can be processed fully automatically.

- For automated commercial use
- All models include additional manual blasting system
- Self-cleaning, sound insulated, heavy duty filter for clean discharged air
- Automatic filtering, recycling and supply of the abrasive
- User-friendly microprocessor controller
- External and internal glass guides with special brush rings prevent scratches
- Automatic conveyor belt cleaning at the exit side
- Back wall of cabinets lined with special rubber
- Blasting nozzles made of carbide steel

Product examples of automatic sandblasting systems

AO S300	Fully automatic S300, glass height 120 cm (240 cm when cabinet is open), 30-programme memory
AO S500	Fully automatic S500, glass height 120 cm (240 cm when cabinet is open), 30 x 30 programme memory
AO S600	Fully automatic S600, glass height 180 cm (360 cm when cabinet is open), 30 x 30 programme memory
AO S700	Fully automatic S700, glass height 260 cm (520 cm when cabinet is open), 30 x 30 programme memory



Vento S300

Manual and Portable Sandblasters

Manually operated sandblasting cabinets are suitable for sophisticated work on larger panes like deep blasting or artistic shading. The portable sandblasters Mini and Sign are ideal for simple jobs or for marking glass panes, also when they have been installed. Both machines are equipped with special blasting heads. These suck in and recycle the used abrasive, allowing practically dust-free work even without a cabinet.

- Self-cleaning, sound insulated, heavy duty filter for clean discharged air
- Additional filter cleaning at the touch of a button (S100, S200)
- Electrically driven glass conveyor belt (S200)
- Automatic filtering, recycling and supply of the abrasive
- External and internal glass guides with special brush rings prevent scratches
- Back wall of cabinets lined with special rubber
- Blasting nozzles made of carbide steel

Product examples of manual and portable sandblasters

AO MINI	Portable sandblaster, Mini
AO SIGN	Portable sandblaster for signing/marketing safety glass, Sign
AO S100	Manual sandblasting system, glass height 86 cm (172 cm when cabinet is open)
AO S200	Manual sandblasting system, glass height 120 cm (240 cm when cabinet is open)



AO Mini

» Optional Accessories «

- Extension for glass conveyor with rollers and brush rings for entry and/or exit side
- Internal adjustable easel for working with smaller panes or 3-dimensional objects
- Rotating plate (in conjunction with easel) for working on small objects
- Additional automatic pistol (S500, S600) for higher work speed
- Film plotters and a large selection of accessories available

Verti-Clean Glass Washing Machine

The powerful systems of the new Verti-Clean series are ideal for cleaning flat glass after glass has been processed in the workshop or industry. The "topless" design also allows panes to be washed that are higher than the machine itself.

- Space-saving vertical design
- All parts that come in contact with water are made of stainless steel
- Entry and exit with motorised drive and end-stop
- Choice of two or four washing brushes
- Thermostatically controlled water heating
- Automatic hot air blower in sound-insulated housing for optimum drying
- Exit side with illuminated inspection station for reliable quality control
- Good value for money

Product examples - Verti-Clean

BO 84.132	Verti-Clean 13.2 / washing height 1300 mm, 2 brushes, 3-12 mm
BO 84.152	Verti-Clean 15.2 / washing height 1500 mm, 2 brushes, 3-12 mm
BO 84.154	Verti-Clean 15.4 / washing height 1500 mm, 4 brushes, 3-12 mm
BO 84.162	Verti-Clean 16.2 / washing height 1600 mm, 2 brushes, 3-12 mm
BO 84.164	Verti-Clean 16.4 / washing height 1600 mm, 4 brushes, 3-12 mm
BO 84.164-2	Verti-Clean 16.4 -20/ washing height 1600 mm, 4 brushes, 3-20 mm

Verti-Clean 15.4



» Optional Accessories «

- Entry and exit extensions
- Damper for hot air
- Brushes for Low-E also possible
- Detergent for glass washing machines

Grinding

For making corrections on site or at the workshop, you can't do without lightweight, convenient yet powerful electric or pneumatic tools. Both for arissing edges as well as for processing corner cut-outs and inner radii, you will find the suitable equipment at Bohle.



BO 89.110

Product examples of power tools for glass grinding

The electric edge coating deleter is suitable for low-E glass. Glass panes with straight or shaped edges can be processed using this tool. The stopper roller guide at the glass edge makes the job easier.

Drilling

Portable drills are used for numerous applications at construction sites as well as in the workshop. You can find high performance power drills amd accessories at Bohle.



BO 79.300

Product example of power tools for glass drilling

When drilling is done in kitchens or bathrooms, it is not uncommon for tiles to crack, resulting in the need for costly reworking. The new Aqua Drill, developed and manufactured by Bohle, reduces the risk of breakage considerably. The Aqua Drill is driven by powerful 18-volt batteries and is equipped with a water chuck for diamond core drills. In combination with special positioning devices, it allows safe and trouble-free drilling even of difficult materials like stoneware or granite.

Sawing

Safety glass, cast resin glass, and fire protection glass are increasingly installed in all kinds of locations. While multi-layered glass can only be cut by sawing, laminated glass can alternatively be scored and broken apart. But sawing laminated glass still has the advantage of avoiding scallops in the edges.



BO 53016 10

Product examples of power tools for glass sawing

The Flex CSW 4160 diamond saw for laminated glass is suitable for thick glass and laminated safety glass up to 30 mm thick. The tool allows very clean cuts – also at the construction site. This powerful 1600 watt saw has an integrated PRCD safety switch.

Abrasive supplies



Abrasive belts

Grinding
and polishing wheels

Drills and accessories for glass drilling machines and saws



Saw blades



Diamond drills

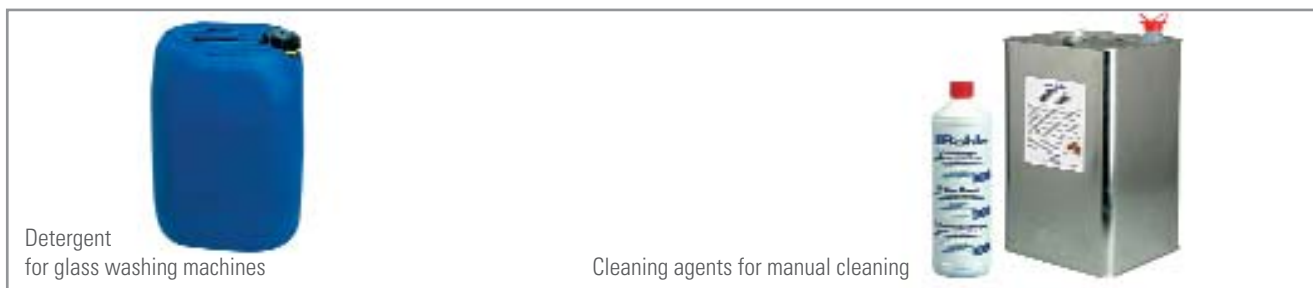
Water treatment

Flocculant for
SedimentorsCoolant
concentrate

Sandblasting supplies



Cleaning agents



Machine care products



More information can be found in the internet under www.bohle-group.com or in our current catalogue "Glass Processing".

Quick, Easy and Convenient: the Bohle Online-Shop.

Do you need consumables for your machines, a new power tool or would you simply like to have further information about our comprehensive range of machinery products?

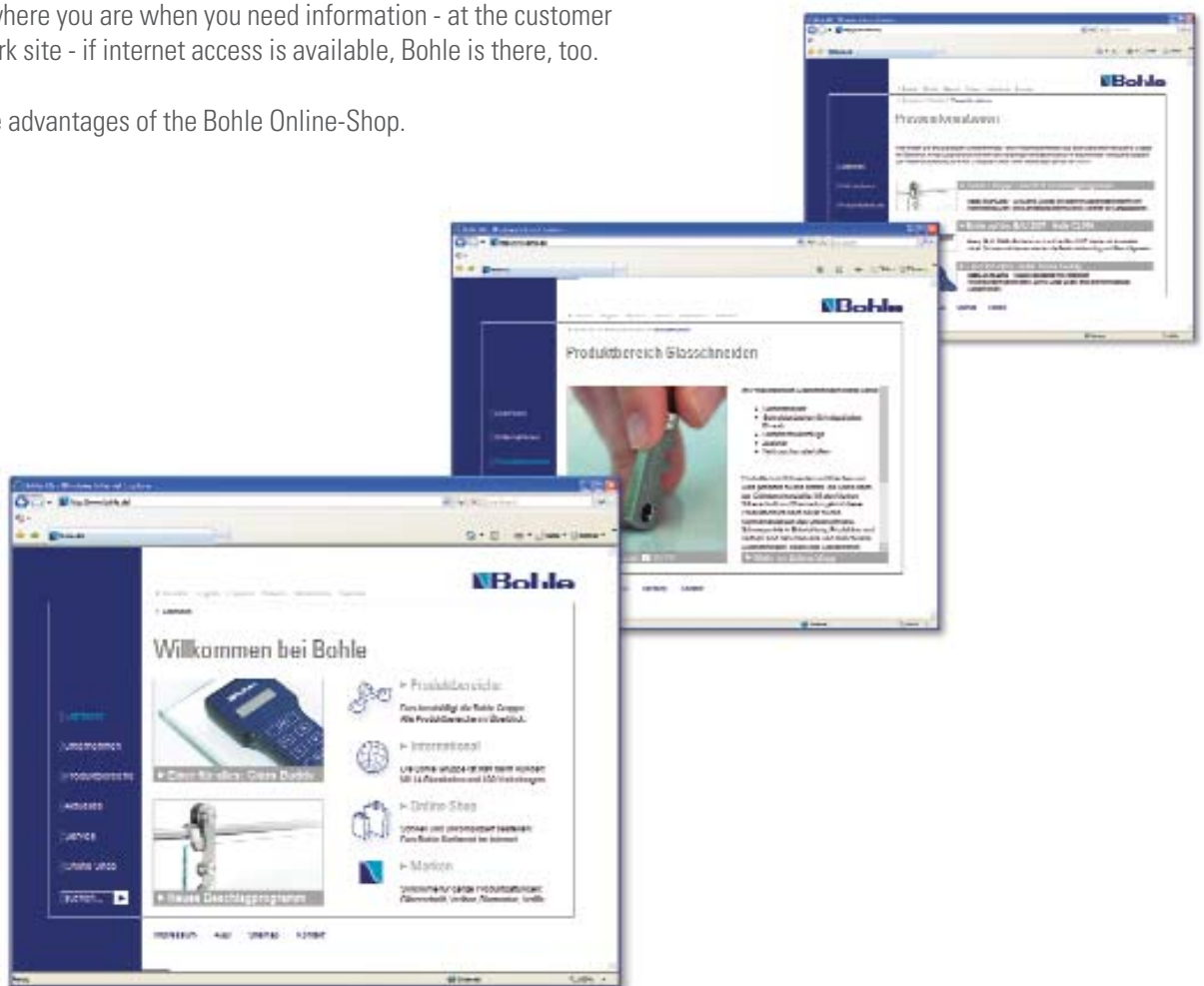
Our internet platform, which you can find around the clock under **www.bohle-group.com**, provides the information you're looking for. Most of the articles of Bohle's comprehensive product range as well as the power tools found in this catalogue can be ordered directly in the Bohle Online Shop. If you are interested in one of our machines, we are personally at your service and will be happy to prepare a quotation for you. Please contact us in this regard.

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- Details about the complete Bohle programme with thousands of products
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Opening hours

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United Kingdom and Ireland Bohle Ltd.

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Trade counter opening times

Monday to Friday 8.30 am - 5.00 pm

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