

Because we care

# **GLASS PLATE WASHING MACHINES** PURIFIED WATER CIRCULATION PLANTS



# **Clear benefits**

- Energy-saving cleaning and drying of different glass thickness
- Chainless brush- and transport drives outside of the machine
- Maintenance-free, water protected bearings of the brushes
- Optimum cleaning results due to
  - alternating brush rotation directions
  - separated washing- and rinsing-zone
  - step less adjustment of transport speed
- Machine housing completely made of stainless steel, drying zone with sound protection

# CLEAN. ENERGY-SAVING. ECOLOGICAL.

Glass plate washing machines with a long lifetime

You can reliably clean and dry glass plates in insulating glass production and the solar industry with **Bystronic glass** washing machines. In doing so, you also protect the environment through the demineralised water used that is free of chemical additives.

#### cleaner GW-D

- Three separate brush-pair drives
- Synchronous drive of vertical transport shafts for slip- and distortion-free glass plate transport
- Symmetric design of brush shafts, bilateral suitable
- Water-tank with heater integrated in machine housing
- Air knife design blower-nozzles for optimum glass plate drying

#### Options

- Electronic frequency control of brush drives for especially sensitive coatings
- Inspection windows in front doors
- Reversible transport drive for glass plates
- Automatic coating recognition

#### cleaner GW-SU

- Four separate brush-pair drives
- Synchronous drive of vertical transport shafts for slip- and distortion-free glass plate transport
- Automatic opening and closing of parallel guided brush- and transport shafts
- Constant brush contact depth if processing different glass thickness
- Symmetric design of brush shafts, bilateral suitable
- Air knife design blower-nozzles for optimum glass plate drying

#### Options

- Brush-lifting equipment for coated glass plates
- Electronic frequency control of brush drives for especially sensitive coatings
- Reversible transport drive for glass plates
- Additional equipment for glass thickness up to 30 mm (1.18 in.) resp. 45 mm (1.77 in.)
- Automatic coating recognition



Section.	

<b>TECHNI</b>	CAL	DATA

Working heights	1.60 m / 2.30 m / 2.70 m (63.0 / 90.6 / 106.3 in.)
Processable dimensions	100 x 300 mm (3.9 x 11.8 in.) up to max. 2700 mm (106.3 in.) working height
Glass thickness	3 – 15 mm (0.12 – 0.59 in.)

TECHNICAL DATA		
Working heights	1.60 m / 2.30 m / 2.70 m / 3.30 m (63.0 / 90.6 / 106.3 / 129.9 in.)	
Processable dimensions	100 x 350 mm (3.9 x 13.8 in.) up to max. 3300 mm (129.9 in.) working height	
Glass thickness	3 – 15 mm (0.12 – 0.59 in.) optional up to 45 mm (1.77 in.)	



## Environment-friendly, energy-saving purified water circulation plants

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Water is systematically returned to the glass washing process via the pure water circulation systems. Two different systems are available for this purpose.

# Disc filter system

- Automatic back-rinsing of filter units due to permanent control of the filtration process
- Extremely low water consumption, only approx. 14 litres per filter rinse
- Short rinsing time, approx. 20 seconds
- Excellent water quality by filtering out tiniest particles
- Heated wash and rinsing circuit for optimum cleaning
- Effective filter back-rinse using water/air mixture
- Free programmable back-rinse parameter
- Very good filtration results with combination of surface and depth filtration
- Activated carbon filter for organic constituents
- Integrated, digital conductance meter
- Integrated ion exchanger

# Gravel filter system

- Essential reduction of water consumption due to recycling of the used water and return flow to the washing machine
- Procedure without chemicals for environment-friendly process
- Back washable gravel filters for mechanical filtering and coarse particles
- Candle filters for fine filtering
- Back washable carbon filter for organic particles
- Optical filter monitoring integrated in the circuit
- Digital conductivity meter, temperature-compensated (for type GW-SU)
- Automatic control of the functions
- Plants with 2 or 3 water circuits, depending on application and type of the washing machine

## Options

- Back washable pH-stabilizer controlling the acid content to protect the coat of the glass
- Ion exchanger for conductance improvement







#### Because we care

## Ecological water demineralizing plant

- Plant for procuring of pure water, for the solid and careful cleaning of glass plates without remains of minerals
- Environment-friendly reverse osmosis procedure without chemicals for demineralization and desinfection of city- and drinking water
- Concentrate can be drained-off without retreatment
- High pure water yield by special diaphragm module
- and recovery system, desalting rate 97 99,5 %
- High efficient double water softening device
- Electronic process control

- Low expenditure of installation
- Demineralization plant is laid out for the particular location according to the required output and water analysis

#### Options

- Additional reverse osmosis module for increase of pure water quality
- Iron extraction filter / Manganese extraction filter



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