



buxtrup

Glass washing machines



Expertise in engineering – national und international

Experience from individuality

If, like us, you have been building machines and systems for custom processes and requirements since 1964, you will have learnt one thing in particular – no two machines are alike.

As an owner-managed business, this is how we have become an international specialist provider of glass washing machines for customers that are market leaders in many different areas of the glass manufacturing and processing sector.

Individuality from experience

For us, intensive customer consultation before and during the design phase of every project is an opportunity to channel our experience into new challenges. Our aim is to meet the customer's requirements efficiently, cost-effectively and innovatively with a Buxtrup-engineered machine.

We make use of a comprehensive engineering design archive and combine proven technology with custom elements, saving time and money in the process.

This is how our dedicated and expert staff create engineering designs which have already helped us to become the market leader in certain areas and enabled our customers to massively optimise processes.

Quality at an international level

- Complete planning, project design and production at a single site in Germany
- Electrical planning and design in according with Buxtrup standards or specific customer requirements
- Machines constructed from high-quality stainless steel
- Globally available components used for e.g. bearings, pneumatic systems, motor/drive systems and electrics
- Selection and processing of materials results in very low maintenance and servicing costs for the operator
- Reliable machine life-spans averaging over 20 years

The design characteristics, precisely tailored to the actual application, are implemented at our factory by trained specialist personnel.

It doesn't matter how we need to twist and turn everything to meet your needs – at the end of the day, we'll get it done.

Security in planning and project management

- A single contact person throughout the course of the project
- Constant and ongoing co-operation with other installation engineers on a project (e.g. connector dimensions, electrical signal exchange, software interfaces, etc.) on request
- Fixed-price terms for consultation, planning, production, delivery and training
- Reliable reaction and production times, and flexible supply agreements
- Extensive after-sales service once the machine is up and running

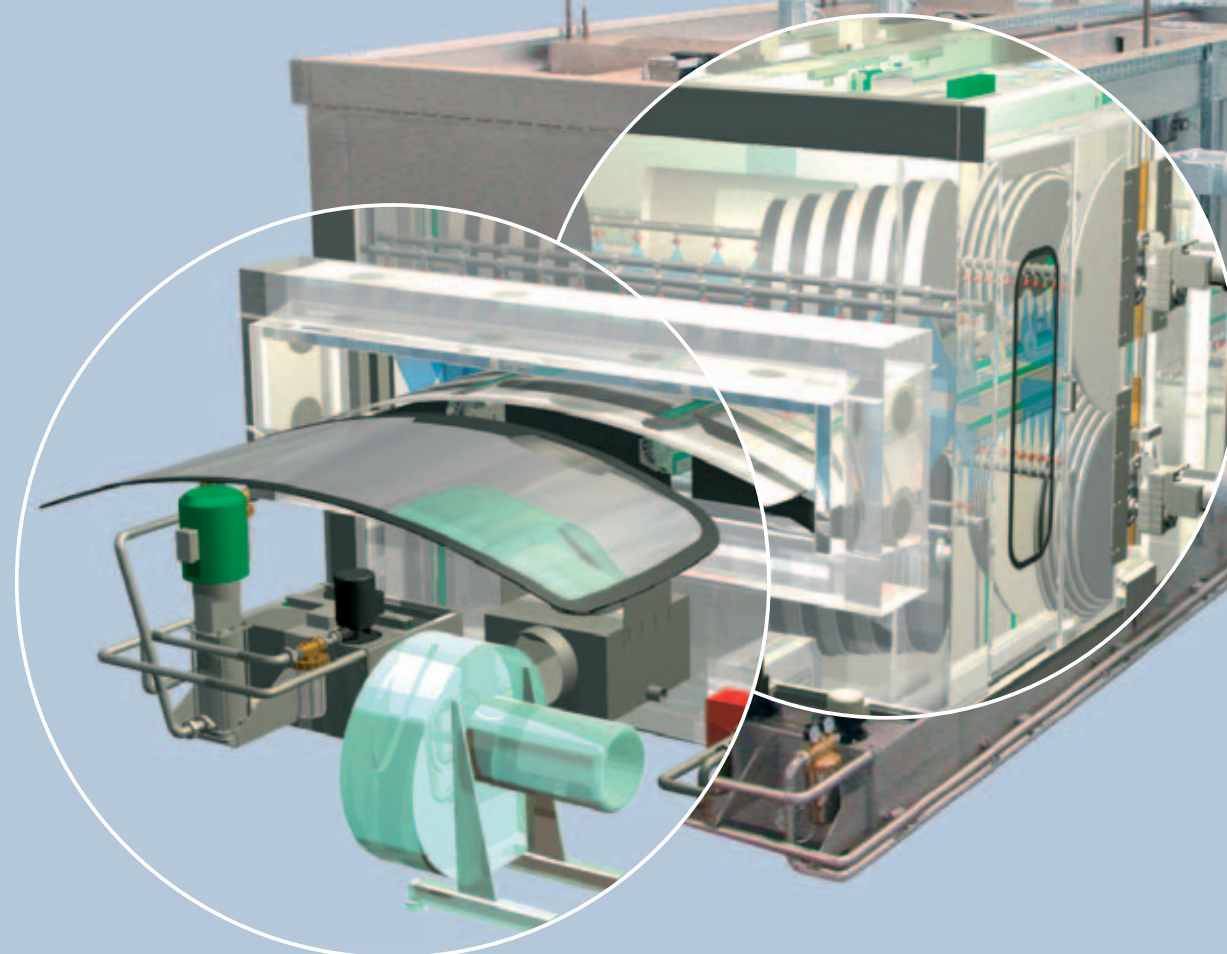
Product diversity means process diversity

- Horizontal washing machines for plane and curved glass – from small glass parts to belt-length dimensions
- Vertical washing machines for flat glass
- Complete processing lines, for example for the manufacture of insulating glass or coating products
- Control cabinets for central electronic monitoring of process machinery
- Software for machine control, modified to meet your requirements
- Glass washing machines for solar and photovoltaic modules

Windscreen washing machines

The machine illustrated here shows our windscreen washing machine for processing curved car wind-screens with longitudinal and transverse curving. It is designed for various windscreen types and is configurable. Specific variables for each windscreen shape, such as:

- washing and transport speed,
- motorised high pressure spray jets and brushes, modified to fit the windscreen geometry,
- the speed of each individual brush,
- the position of the lateral dryer nozzles.



Lightning fast model changes

Rapid loading of the parameters for different models means no expensive, time-consuming reconfiguration, thus saving you money.

Productive benefits that impress

- Improved quality and cleaning through the use of additional brushes
- Dry windscreen removal – even at speeds of up to 16 m/min – resulting in increased production volumes!



Feeding the glass panes into the machine (here by hand)



Glass in the first brush zone (lateral brushes)



Glass in the second brush zone (central brushes)



Glass in the final rinsing zone



Glass in the drying zone



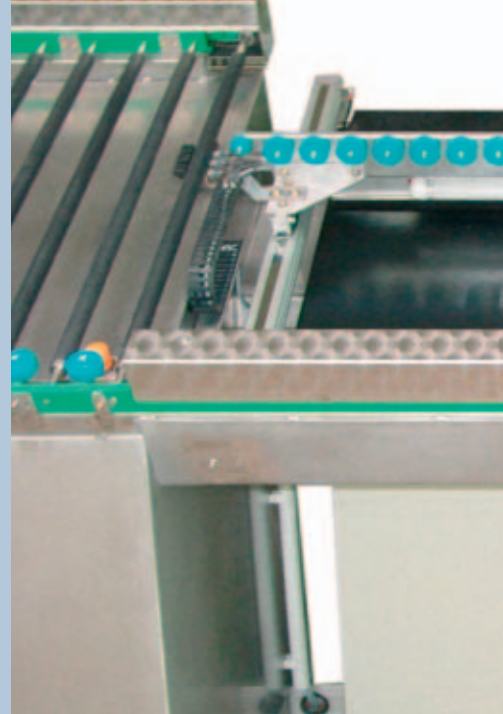
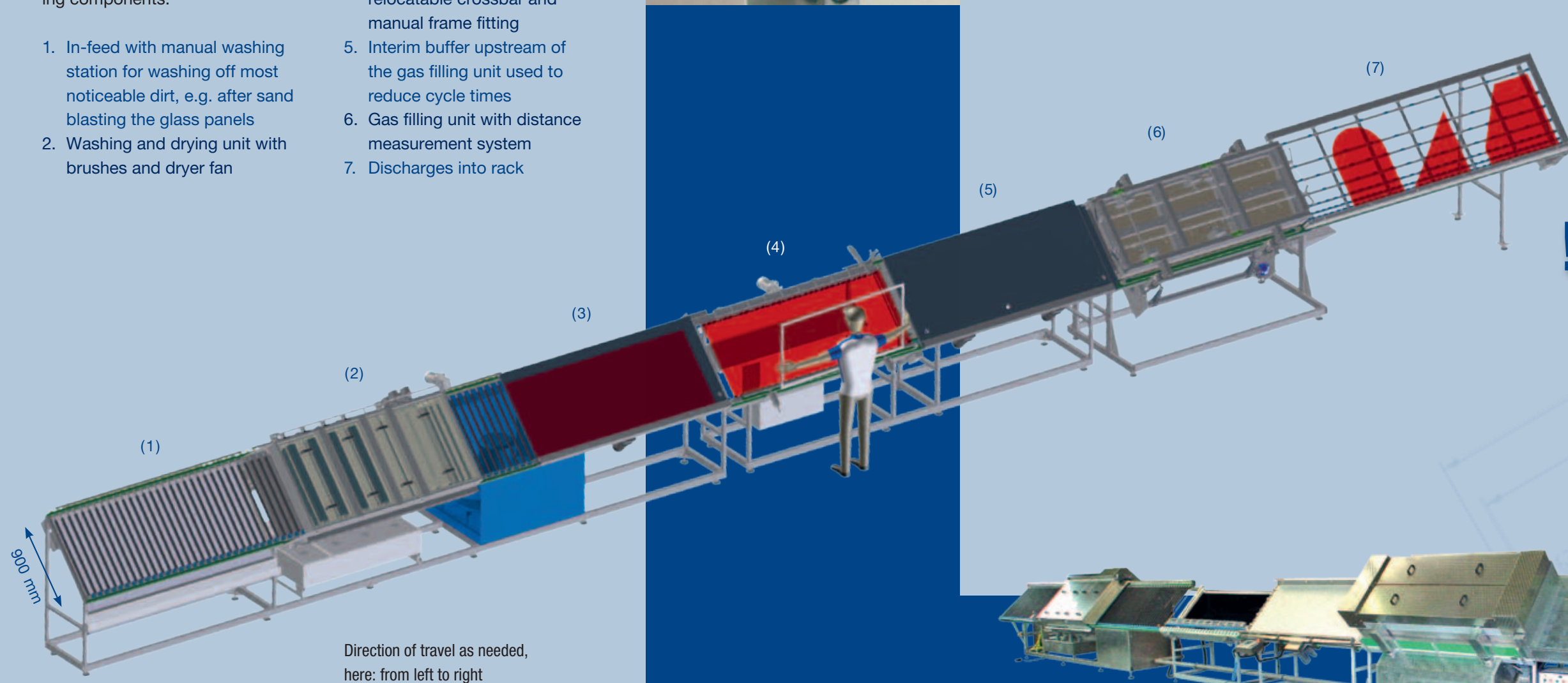
Glass discharged from the machine (here removed by hand)

WS 900 insulating glass production line

Flexibility from Buxtrup

The small WS 900 insulating glass production line is suitable for the production of model panes with a straight supporting edge – a benefit that pays off. It comprises the following components:

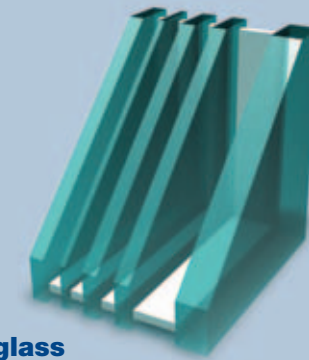
1. In-feed with manual washing station for washing off most noticeable dirt, e.g. after sand blasting the glass panels
2. Washing and drying unit with brushes and dryer fan
3. Washing machine discharge point used as air cushion buffer station
4. Indirectly illuminated control station with automatically relocatable crossbar and manual frame fitting
5. Interim buffer upstream of the gas filling unit used to reduce cycle times
6. Gas filling unit with distance measurement system
7. Discharges into rack



Five-layer insulation glass

The WS 900 is suitable for the production of multi-layered insulation glass with and without gas filling in sizes ranging from 180 x 100 mm to 900 x 2,100 mm.

Now also for passive houses with a maximum thickness of 120 mm for the compressed unit and a maximum glass thickness of 20 mm for the individual panes to be washed.

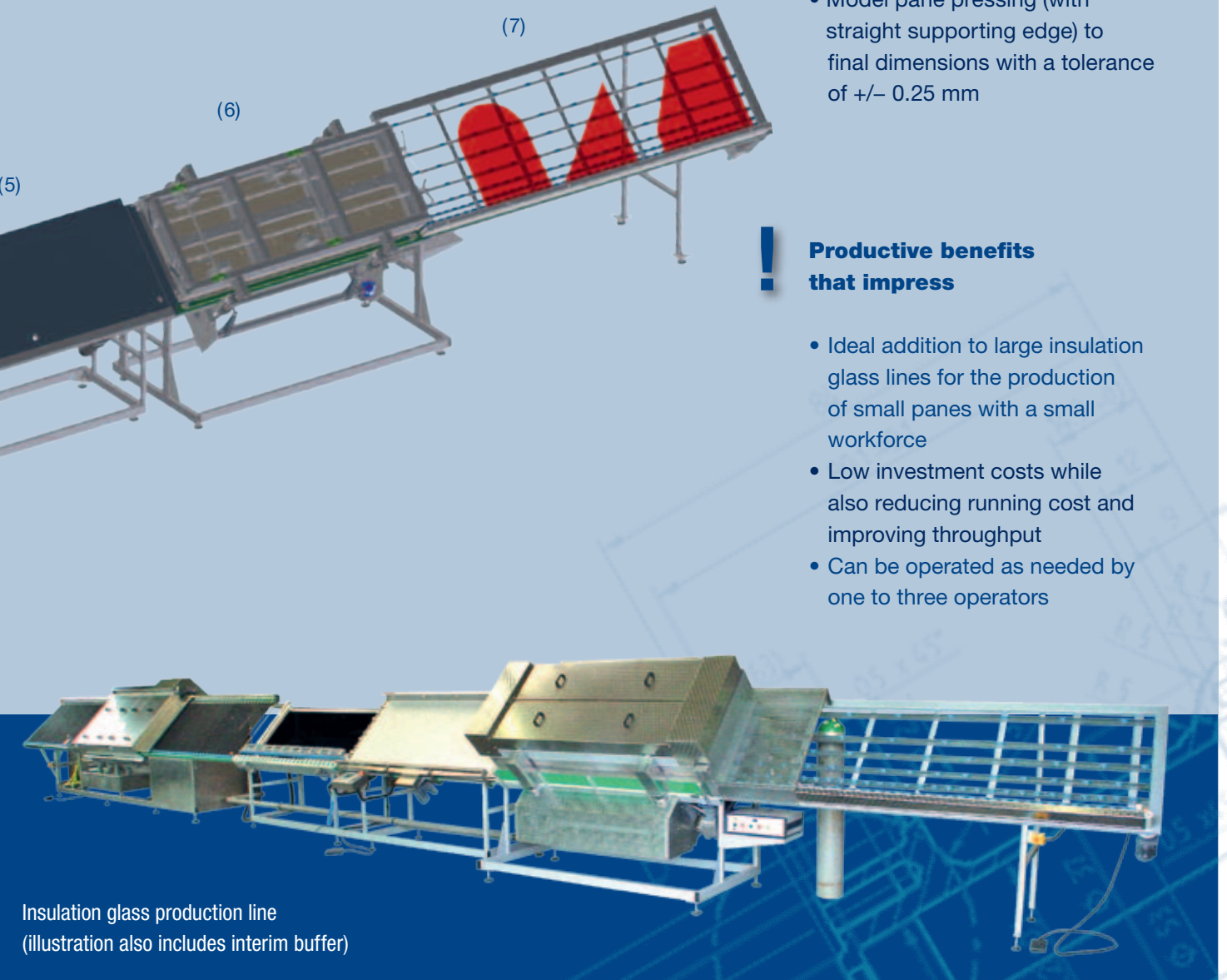


Gas under control

- Washing and drying (not including compression)
- Two-layer to five-layer glass, with and without gas filling
- Gas filling only possible in selected interim chambers of the insulation glass unit
- Model pane pressing (with straight supporting edge) to final dimensions with a tolerance of ± 0.25 mm

Productive benefits that impress

- Ideal addition to large insulation glass lines for the production of small panes with a small workforce
- Low investment costs while also reducing running cost and improving throughput
- Can be operated as needed by one to three operators



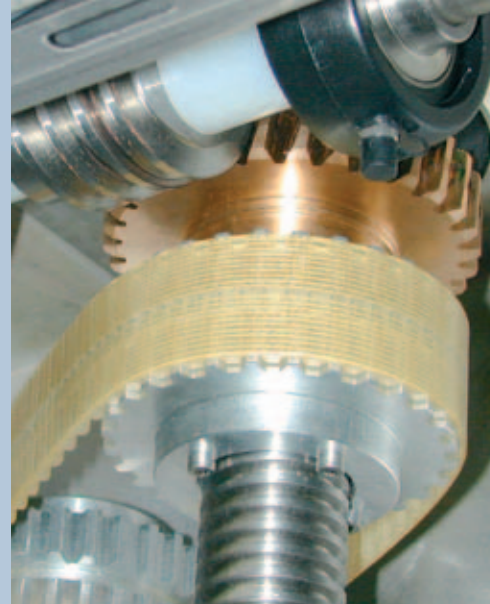
Horizontal flat glass washing machines

Example: WH 2600 coating line

This high-performance washing machine satisfies the highest requirements in coating quality, for example when used upstream of vacuum coating units.

It offers a working width of 2,600 mm, a washing and transport speed of 20 m/min and has:

- a high-pressure pre-washing zone,
- five brush washing zones,
- four oscillating polishing gantries
- and three drying zones.



Key figures for horizontal flat glass washing machines

- Working width up to 3,300 mm
- Flexible washing and transport speeds up to 20 m/min
- Number of washing and polishing zones as required
- Precisely engineered integration into existing production lines

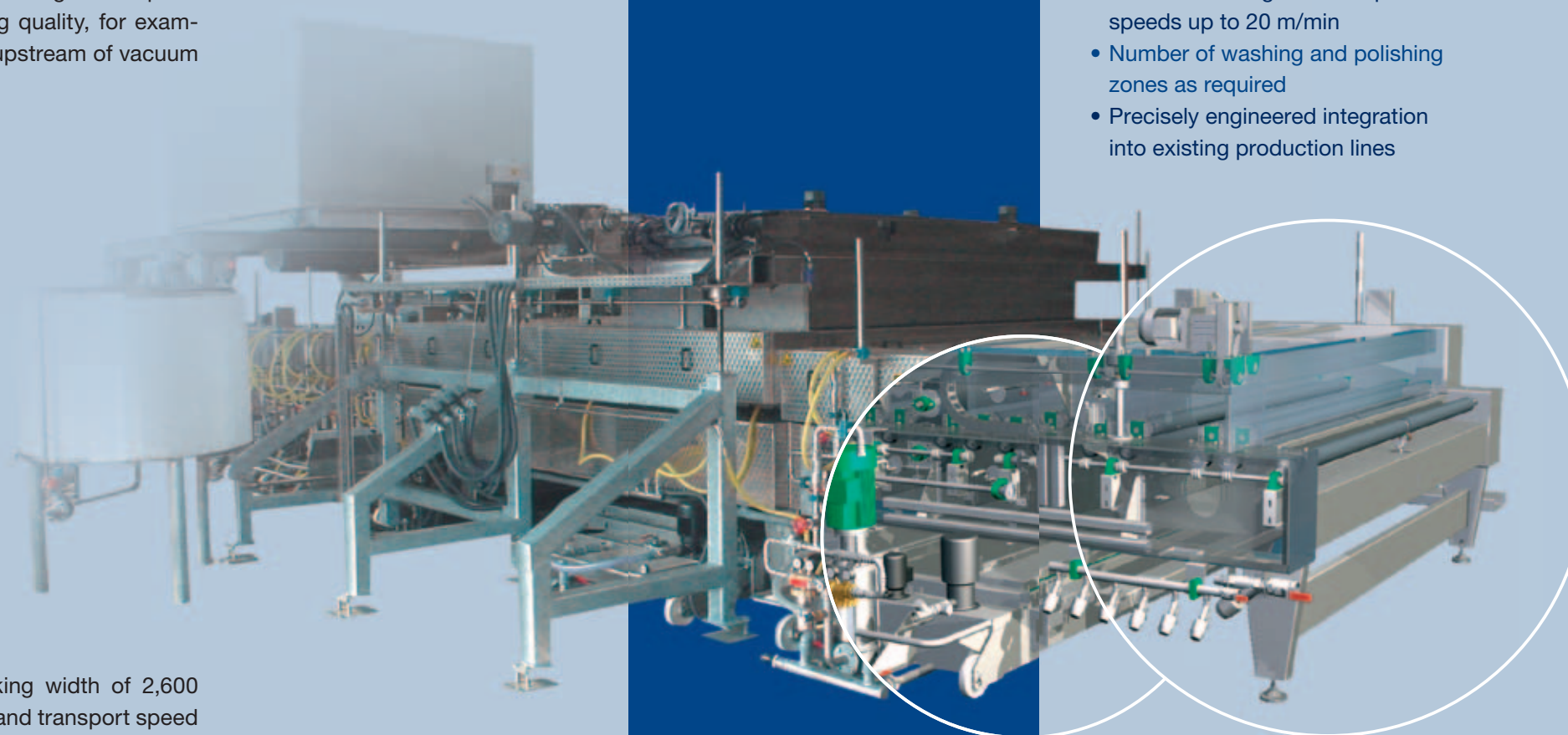


Precision from Buxtrup

The synchronisation of the transport and pressing systems and the precise adjustment of brush position and rotational speed, together with optimum water separation, provide the best possible washing results.

Productive benefits that impress

- Machine produced precisely in accordance with the customer's performance and quality specifications
- Requires very little maintenance and experiences very few faults, meaning high operational reliability for 3-shift operation.



Two to four oscillating polishing gantries



Additional brush area



Maintenance-free stainless steel worm drive

Horizontal flat glass washing machines



Fields of application:

Car glass, solar cell and architectural glazing production, integration with coating and mirror systems

Buxtrup systems are in use in combination with a wide variety of transport and processing systems and are produced in consultation with all other machine manufacturers and in accordance with the customer's design specifications. Operational reliability, ease of operation and servicing are a matter of course for us.

Vertical flat glass washing machines



Fields of application:

From architectural glazing to ceramic hob production, immersion coatings

The production of special products requires custom-built machinery. Whether it's adjustable rack height (important for facet polishing, for example), diverse water systems or interim drying stages, we supply what you need.

Horizontal small glass parts washing machines

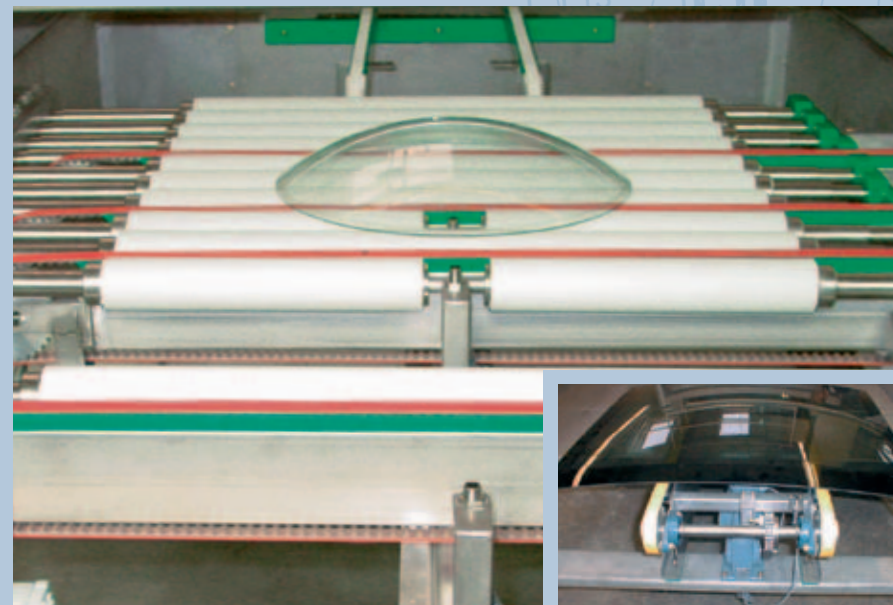


Fields of application:

Microscope slides, halogen heaters, glass instrument panels or production lines for related products

We develop and manufacture washing machines for even the smallest and most delicate glass types. Almost anything is possible.

Horizontal domed glass washing machines



Fields of application:

Integration into production lines for car and HGV mirrors

Various transport and brush systems allow the different glass types to be mechanically cleaned. Water and air nozzles are adapted to the shape of the glass and the required hourly throughput.



Innovation is our promise

For the people at Buxtrup, the customer's needs are our first priority, whether the result be an innovative partnership with our customers, or something from our extensive engineering design archive.

Our German-engineered promise – low investment costs and more productivity for you, plus cost reductions.

Correspondence languages:
German and English

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