

SFILL

SKILL GLASS

VERTICAL CNC CENTERS

IT ES EN FR DE

SKILL SFILL

SFILL 101ML_SFILL 101

SKILL WASH

SFILL



SKILL GLASS

INDEX

This catalog illustrates the functions and capabilities of the machines shown. However, please note that, given the complexity of the models and the variety of services available, some configurations may include specific options. To determine the correct set-up for your machine, please contact our sales and technical staff.

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SFILL



A COMPANY, A VERTICAL GLASS TECHNOLOGY SCHOOL



SKILL GLASS

Located in the industrial heart of Alto Vicentino, SKILL GLASS is specialised in the design and production of high-tech vertical processing machines for flat glass. Our solutions, the result of consolidated experience and constant innovation, include vertical grinding, drilling and milling lines, designed for maximum efficiency, reliability and ease of use.

Vertical technology allows the optimisation of spaces and movement, and simplifies the handling of the glass, proving ideal for the processing of large sheets, now increasingly demanded in the industry.

Each machine is developed through a careful design phase, aimed at simplicity of mechanical functions, full automation of processes and low maintenance requirements.

In our headquarters in Schio, we develop flexible modular solutions that can be used in a stand-alone setup or integrated into complete processing lines. Our range of machines, all CNC, includes drilling and milling machines, grinding and polishing machines, combined systems and special custom-designed systems to meet specific production needs.

Thanks to dedicated software, intuitive interfaces and functional design, our machines offer an immediate use and high-performance experience, confirming SKILL GLASS as a reliable partner for glass companies that look to the future with ambition, precision and technological vision.

This catalogue features the **SFILL Range**, the jewel in the crown for the **Arrising, Grinding and Polishing** of edges, embodying our experience and continuous commitment to research and cutting-edge solutions for vertical processing.

In addition to our machines in the **SFILL range**, we also present the **SKILL WASH specific washing machine**, designed to integrate perfectly in the production cycle. It permits an extraordinary **optimisation of work times**, improving overall productivity and simplifying the operations. The intuitive interface and working software, even when installed in the "in-line" version, also allow it to be used in stand-alone mode. The ease of maintenance and construction quality make it an essential tool for those in need of **uncompromised efficiency**.

Each machine is a perfect blend of innovation, functionality and reliability.

We are here, at your side!

Inside every SKILL GLASS machine you'll find not just technology, but also the genuine passion of people who believe in their work and in customer satisfaction. Each component, detail and function is the result of a daily commitment composed of listening, experience and care. For us, building a system does not only mean offering a technical solution, but **accompanying customers in their journey of growth**, with dedication, professionalism and constant closeness. The care we put into every stage – from design to after-sales support – is the reflection of a value we consider fundamental: customer centricity. This is what makes our machines more than mere production tools: they become an **extension of our responsibility and our passion**, designed to last over time and meet the real needs of those who work day-after-day with skill and vision.

We wish you all an enjoyable read and trust that this catalogue will offer you practical ideas to optimise your investments and enhance all aspects of your production process.

to staff Skill Glass



SKILL GLASS

2



1. A 2.2 x 3.0 m metal cabin with front and rear side door for safe access and ample movement.

2. The weight of the glass always rests on the roller conveyors, even when machining the bottom edge. Both roller conveyors (infeed and outfeed) automatically adjust their height to compensate for the portion removed from the bottom edge. This occurs both when the glass travels forward and when it travels back. The weight of the sheet has little or no effect on the movement system and so it does not burden the suction cups. The glass is therefore positioned much more stably and is free from vibrations, particularly in the case of large sheets. [non so se scriverlo: "The SFILL 101 version does not have this function as it does not perform milling but only araising, which does not involve removal of the edges of the glass."]

3. The tool racks are positioned vertically beside the spindle.

The 2 tools racks are in a vertical position, right beside the spindles. Each one houses 10 tapered tool holders. Their position is protected from water and dirt. They perform a simple, linear movement of 20 cm, pushed by 3 horizontal pistons, to align with the spindle and allow a fast and safe tool change with no risk of error. This system is designed to eliminate all possible risks caused by long or complex movements. It does not require special maintenance as it

moves only along one axis (horizontal) while the spindle moves vertically to deposit the old tool and pick up the new one. [non so se scriverlo: "The SFILL 101 version does not need a tool rack as it works exclusively with a special V-shaped araising wheel."]

4. The machine allows loading (and unloading) of glass longer than the roller conveyor dimensions.

Provided that adequate safety measures are taken, the machine can process glass longer than the roller conveyor dimensions. This is because the roller conveyors and vacuum belts work on the basis of the work program, independently of the length of the glass. Once the glass is supported, the machine then takes it to the vacuum belt zone for clamping and movement during processing.

5. Option of loading the glass onto the outfeed roller conveyor. The machine then takes it to the infeed roller conveyor. The absence of suction cup units moving at the rear also allows this advantage. The glass can be loaded onto the outfeed rollers and the machine then takes it to the infeed rollers. This function provides a user-friendly approach in the case of large sheets where there are difficulties due to lack of space or jib crane limitations on the infeed roller conveyor, protecting the operators from difficult or risky operations.

6. Vacuum belts for moving the glass during processing.

All models in the SFILL range are equipped with belts with selective vacuum suction cups positioned at the sides of the spindle axis, so as to leave the central space completely free. The belts grip around 90 cm of the glass, ensuring no vibrations and maximum precision. The management of the vacuum zones is selective and fully automated, activating only the areas covered by glass and deactivating the free ones.

SKILL SFILL: equipped with 4 belts and 16 selective vacuum zones to allow handling of sheets without any weight restrictions. SFILL 101 and SFILL 101ML: equipped with 2 belts and 8 selective vacuum zones to allow handling of sheets of up to 300 kg.

7. The movement of the glass is distributed in a functional and synchronised manner between the rollers and the vacuum belts.

Infeed and outfeed of the glass by means of motorised roller conveyors. Once it reaches the work position, and during the processing, the movement of glass is performed by the vacuum belts for safe and precise handling, with no drive or leverage components. Once the processing is completed, the outfeed rollers assume the movement of the glass. At the same time, the infeed rollers and belt load the next sheet. This system requires very low maintenance, with minimal costs.

SKILL SFILL 101 ML

WINNING POINTS



4. The machine has been designed with no rear mechanical structures (suction cups) for moving the glass from the infeed to the outfeed. This is an exclusive advantage of Skill Glass products. Mechanical structures positioned at the rear remain constantly exposed to water, dirt and falling debris, with an inevitable increase in wear and damage to the suction cups and moving mechanical parts. This is a deliberate choice by Skill Glass; it eliminates a lot of maintenance and damage and above all keeps the machine much cleaner.

9. Possibility of adjusting the working height. The height of the glass loading or unloading roller conveyors can be adjusted to meet specific needs. This is normally required when connecting to an existing machine line with a non-standard working height. The roller height automatically and electronically adjusts upwards or downwards to reach different loading heights, in line with the height of the next machine.

10. High-tech anti-vibration and Low-E processing systems. The machine is equipped with 8 vertical anti-vibration stabilising bars (4 in front and 4 behind) with rollers to stabilise the glass during processing. The rollers on the Low-E version are made with special silicon, specifically designed and produced for this purpose so that the glass coating is not damaged.

11. High-power, interchangeable double spindle. The machine is equipped with 2 identical 10 kW spindles, mounted at the front and the rear (4 kW on SFILL 101), which can perform all the machine's functions. This provides fully interchangeable spindle processing whenever one of them is not available (after modifying the work program). For processing of glass up to 30 mm in thickness, the 14 kW version is required.

12. Automatic machine shutdown operations. Automatic washing. When the machine has finished its work, the operator can start the automatic washing function for parts subject to contact with water and dust. The two spindles are automatically activated and spray high-pressured water on the vacuum belts (which are put into motion) and, rising to the top, on the presser and stabiliser rollers. Draining of the internal water circuit. When work is ended, the machine drains the water from the line of the two spindles. This operation, which immediately follows the automatic washing, is performed by means of compressed air, until the two circuits involved are completely drained. Mechanical moving parts and services. When work is ended, the machine moves all the mechanical parts. This helps keep all mechanical moving parts and services functioning properly, to prevent blockages or errors in the case of infrequent use by the customer.

13. Automatic lubrication - Automatic grease dispenser. Grease distribution to the various lubrication points is done automatically. There is a single grease tank, a centralised pumping system and peripheral distribution blocks to reach over 50 automatic greasing zones.

14. Automatic measurement of the wheel diameter, selected by the operator or automatically, based on a pre-determined number of uses.

15. Tool dressing [grind wheels] function programmable for time of use or controlled by the operator.

16. Alarms with warnings on the operator display. For low grease levels or insufficient grease distribution. If a low grease-tank level or weak or insufficient distribution is detected, the machine sends a specific alarm message to the operator. For air pressure losses below pre-defined limits, to avoid possible machine malfunctions. For vacuum pressure losses, to avoid potential malfunctions in the glass clamping and movement system. Codified operator signals for the control of irregularities in all the machine's mechanical and electro-mechanical movements. This is to facilitate diagnosis and support interventions.



PREMIUM CLASS

"We build our machines with care and passion so that they can carry a piece of our history, our culture, and ourselves around the world"

(Beniamino dal Santo – Skill Glass founder)

PREMIUM CLASS
SKILL SPILL

PRESENTATION



NINE-AXIS AUTOMATIC VERTICAL GRINDER FOR ARRISING AND GRINDING GLASS SHEETS WITH STRAIGHT OR SHAPED EDGES.

SKILL SFILL

is a high-tech vertical CNC machine designed to integrate, in a single, highly versatile machine, all edge processing operations on flat, laminated or multi-layer laminated, and low emissivity (Low-E) glass, with either shaped or straight edges.

This highly specialised and efficient solution was designed for arrising, grinding and polishing, to ensure maximum precision and operating speed. Built with a particularly robust and solid structure, SKILL SFILL is optimised to work with large vertical sheets, machining glass thicknesses ranging from 3 to 30 mm, depending on the configuration, and handling sheet formats of up to 12,000 x 3,300 mm.

Twin Head Technology (THT) characterises the equipment of the entire SFILL range. It consists of the simultaneous use of two functionally interchangeable heads (front and rear), enabling the machine to quickly and efficiently manage different types of processing at the same time.

One of the main strengths of SKILL SFILL, and of the entire SFILL range in general, is its high operational versatility, which enables it to process sheets of only 3mm in thickness.

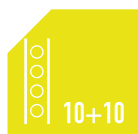
The machine integrates perfectly in complex production lines (such as IG systems), for simple and fast edge processing (arrising or C-edge grinding), and is also perfect for use in stand-alone mode, for independent machining. In the latter case, it can be easily combined with a washing machine for the production of specific products, even in smaller formats, from furnishings to constructions, depending on the individual order requirements.

Like all the Skill Glass models, SKILL SFILL is also distinguished by its innovative glass support and conveyor system, described in detail in the Winning Points section. The motorised support rollers ensure smooth and safe movement: they guide the sheet into the work area, relying on selective vacuum belts for the clamping and movement of the glass during processing.

The stainless steel casing is a distinctive feature of this line. It not only gives it a highly aesthetic and prestigious appearance, but is also an essential structural element, ensuring strength and durability over time.



PREMIUM_{CLASS}



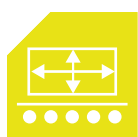
1.
DOUBLE TOOLS RACK
WITH 10 POSITIONS



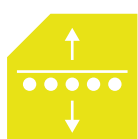
6.
MACHINE CARTERS
IN STAINLESS STEEL



2.
9 AXIS NUMERIC CONTROL



3.
AUTOMATIC GLASS
DIMENSIONS READER
WITH TOUCHING EDGE
FUNCTION



4.
ENTRY AND EXIT
CONVEYOR WITH
MOVEMENT TO
COMPENSATE
THE GLASS REMOVAL



5.
AUTOMATIC LUBRICATION



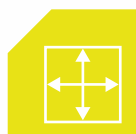
SKILL SKILL PREMIUM_{CLASS}

SKILL SFILL



7.
TOOL MEASUREMENT AND
SHARPENING

8.
SPACEFUL AND SAFE CABIN
MEASURING 2.2X3.0m



9.
LOW-E GLASS
PROCESSING SYSTEM



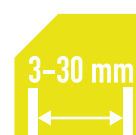
10.
4-BELT GLASS GRIPPING AND
HANDLING SYSTEM WITH
SELECTIVE VACUUM



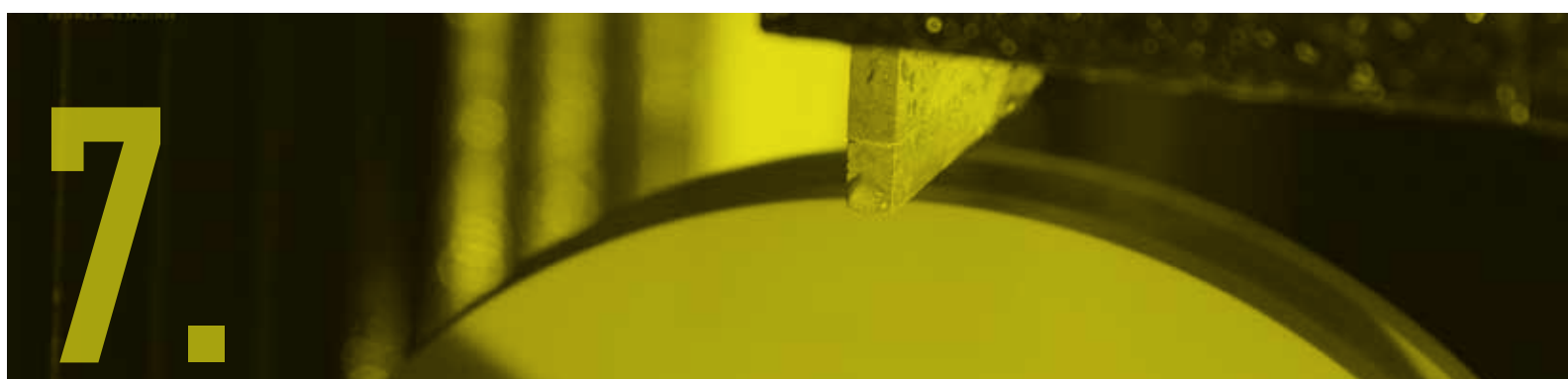
11.
NO LIMITATION
ON THE WEIGHT
OF THE GLASS PANE



12.
PROCESSING GLASS
WITH THICKNESSES
FROM 3 mm TO 30 mm



13.
2 COAXIAL 10 kW
ELECTRIC SPINDLES
(14 kW FOR GLASS
UP TO 30 mm)



PROCESSING



SKILL SFIILL

Our flagship glass edge processing machine is the result of over twenty years of experience, research, and continuous improvement. Every design detail, every function, and every integrated innovation has been developed with a single goal in mind: to achieve technical excellence and guarantee uncompromising performance even on large glass sheets.

Thanks to the combination of advanced engineering solutions and proprietary technologies, the machine offers maximum precision, reliability, and versatility in glass processing, adapting to the most complex and competitive production requirements.

The machine is equipped with 2 electro-spindles, each with 10 kW of power (14 kW for thicknesses of over 22 mm), which drive 150 mm-diameter wheels housed in a dedicated rack positioned vertically beside the spindles.

The machine, software and mechanics are all designed around the concept of two equally powered spindles that can be interchanged for all functions as required. A single spindle is potentially capable of handling all the processing; the synchronised and simultaneous operation of the rear spindle notably reduces the time involved.

The machine can be equipped with an axis dedicated to automatic detection of the glass dimensions, combined with an “edge tracking” function, which allows the wheels to follow the edge as it is cut, even when slightly out of square.

The machine may include a system for machining low-emissivity (Low-E) glass and glass with special surface treatments.

The operating solutions made possible by the machine play an important role. Although these offer indirect advantages, they are properly part of the specific design choices and technical architecture of the machine.

They include:

REVERSE LOADING MODE

THE PROCESSING OF SHEET DIMENSIONS GREATER THAN THE LENGTH OF THE ROLLER CONVEYORS

AUTOMATIC ADJUSTMENT OF THE GLASS OUTFEED HEIGHT FOR ALIGNMENT WITH MACHINES OF DIFFERENT HEIGHT

The following is a detailed list of the processes the machine can perform:

1 GRINDING

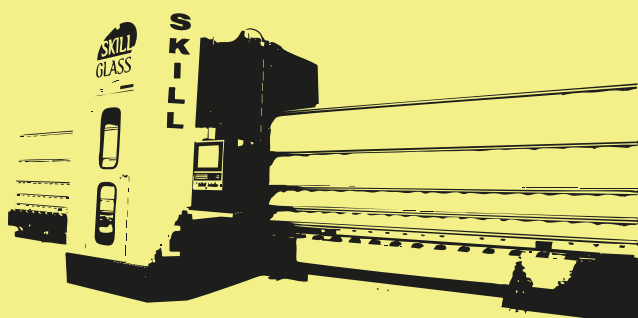
is carried out using 150 mm-diameter diamond wheels and can be done on glass with straight or shaped edges, even if layered or treated. Grinding operations involve the use of both heads (front and rear) except on shaped edges, where the work must be done solely with the front spindle. With Skill Sfill, processing can be carried out with a single wheel, for example, arrising or rough C-edging, or with different types of wheels in sequence, such as segmented or trapezoidal wheels. The processing can include the creation of corners with a slight radius or sharp corners.

2 POLISHING

can be carried out both on large surfaces with 150 mm-diameter wheels and on small cut-outs with 50 mm or 30 mm-diameter wheels.



SKILL SFILL



Machine dimensions with roller conveyors (other sizes available)

4500 X 2600

L 11400 mm
I 3000 mm
h 3920 mm

6000 X 3300

L 14400 mm
I 3100 mm
h 4650 mm

Machine carters

INOX

Basement structure

Galvanized and painted steel

Minimum glass size that can be processed

600 X 300 mm

Maximum glass size that can be processed

4500 X 2600 mm

6000 x 3300 mm

Minimum glass thickness allowed

3 mm

Maximum glass thickness allowed

30 mm

Working height from the ground (other sizes are available on request)

620 mm

Feed and working speed

0 - 35 m/min.

Standard electrical connection (other on request)

400 V 50 HZ

Power installed in standard configuration

30 kW

Electric spindle power (nr. 2)

10 KW (13.6HP)

Electric spindle power (nr. 2) for working with thicknesses up to 30 mm

14KW (19.0HP)

Electro-spindle rotation speed with internal tool cooling

0-12.000 rpm

Numerical control

9 ASSI

Standard automatic tool change stations (front/rear/optional)

10 / 10

SKILL GLASS SRL declines all responsibility for any incompleteness of the information provided in this publication or for any errors it may contain. The company also reserves the right to make changes of any kind to one or more products at any time and without prior notice, as well as to discontinue their production.

SKILL SFILL

PREMIUM CLASS

PRESENTATION



NINE-AXIS AUTOMATIC VERTICAL GRINDER FOR GRINDING AND ARRISING FLAT GLASS SHEETS.

SFILL 101ML

Our flagship glass edge processing machine represents the culmination of over twenty years of experience, research, and continuous refinement. Every function has been studied and refined with the aim of achieving technical perfection, offering absolute top-level performance that makes it the undisputed benchmark in the industry.

This model is not only the ultimate expression of reliability, precision, and productivity, but also stands out for its high configuration flexibility: a feature that allows the machine to be adapted to the specific needs of each job, optimizing time, costs, and results.

SFILL 101ML is a vertical CNC machining centre designed to integrate, in a single, highly versatile machine, all edge processing operations on flat, laminated or multi-layer laminated, and low emissivity (Low-E) glass, with either shaped or straight edges.

Optimised for arrising, grinding and polishing, it ensures high precision, speed and continuous operation. Its robust structure allows the vertical machining of sheets with thicknesses from 3 to 21 mm and dimensions of up to 12,000 x 3,300 mm, depending on the configuration.

The entire SFILL range is equipped with THT – Twin Head Technology, which allows simultaneous and synchronised use of both heads (front and rear), which are interchangeable depending on the type of processing, ensuring maximum efficiency and flexibility.

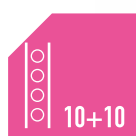
One of the strengths of SFILL 101ML is its capacity to process sheets as thin as 3 mm, making it suitable for integration in complex production lines (such as IG systems) as well as for stand-alone use, also in combination with a washing machine for specific small-format productions, from furnishings to constructions.

Like all the Skill Glass models, SFILL 101ML also uses an innovative glass support and conveyor system: motorised roller conveyors guide the sheet into the work area, while selective vacuum belts provide secure clamping and movement during processing.

The casing, made from metal sheets with an anti-corrosion protective treatment and powder coating, is a distinctive feature of this line. It not only gives it a highly aesthetic and prestigious appearance, but also conveys a sense of robustness and durability over time.

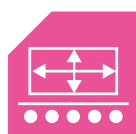


SKILL 101ML



1
DOUBLE TOOL CHANGER
WITH 10 POSITIONS

6
GLASS CLAMPING AND MOVEMENT
SYSTEM WITH 2 SELECTIVE VACUUM
BELTS (4-BELT VERSION AVAILABLE)

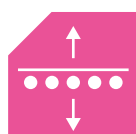


2
AUTOMATIC GLASS
DIMENSION DETECTION
AND "EDGE TRACKING"
FUNCTION

4
TOOL MEASUREMENT AND
SHARPENING



7
PROCESSING OF GLASS
SHEETS OF UP TO 300 KG (NO
RESTRICTION WITH 4 BELTS)



3
INFEEED AND OUTFEED
ROLLER CONVEYOR WITH
REMOVAL COMPENSATION
MOVEMENT

5
LOW EMISSIVITY (LOW-E)
PROCESSING SYSTEM



8
TWO 10 KW – 14 KW
COAXIAL ELECTRO-SPINDLES
FOR MACHINING GLASS
OF UP TO 30 MM



PRESENTATION



SIX-AXIS AUTOMATIC VERTICAL GRINDER FOR ARRISING RECTANGULAR FLAT GLASS SHEETS.

SFILL 101

The result of over twenty years of experience and constant refinement, SFILL 101 combines high performance with simple and immediate management focused on the objective. Complete range of necessary functions and fast processing. Each function has been designed to ensure precision, reliability, and quality results, with configuration flexibility that makes it easily adaptable to different production needs.

SFILL 101 is a high-tech vertical CNC machine designed to carry out edge arrising on flat, laminated or multi-layer laminated, and low emissivity (Low-E) glass, with either shaped or straight edges.

The machine integrates perfectly in complex production lines (such as IG systems) to offer an extremely powerful, reliable and fast tool as a start-of-production machine.

Built with a particularly robust and solid structure, SFILL 101 is optimised to vertically process flat glass sheets, machining glass thicknesses from 3 to 21 mm, depending on the configuration, and handling sheet formats of up to 12,000 x 3,300 mm.

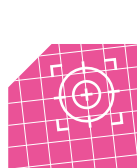
Twin Head Technology (THT) characterises the equipment of the entire SFILL range. It consists of the simultaneous use of two heads (front and rear), enabling the machine to quickly and efficiently manage processing in simultaneous mode.

Like all Skill Glass models, SFILL 101 is also distinguished by its innovative **glass support and conveyor system**, described in detail in the Winning Points section. The motorised support rollers ensure smooth and safe movement: they guide the sheet in the work area, relying on selective vacuum belts for the clamping and movement of the glass during processing.

The casing, made from metal sheets with an anti-corrosion protective treatment and powder coating, is a distinctive feature of this line. It not only gives it a highly aesthetic and prestigious appearance, but also conveys a sense of robustness and durability over time.



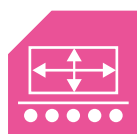
SFILL 101



1
SIX-AXIS NUMERICAL
CONTROL

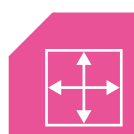


4
GLASS CLAMPING
AND MOVEMENT SYSTEM
WITH 2 SELECTIVE VACUUM BELTS
(4-BELT VERSION AVAILABLE)



2
AUTOMATIC GLASS
DIMENSION DETECTION
AND "EDGE TRACKING"
FUNCTION

4
SPACIOUS AND SAFE
2.2 X 3.0 M CABIN



7
PROCESSING OF GLASS
SHEETS OF UP TO 300 KG
(NO RESTRICTION WITH 4
BELTS)



3
AUTOMATIC
LUBRICATION

5
LOW EMISSIVITY (LOW-E)
PROCESSING SYSTEM



8
TWO 4 KW COAXIAL
ELECTRO-SPINDLES



PROCESSING



SFILL 101ML

The machine is equipped with 2 electro-spindles, each with 10 kW of power (14 kW for thicknesses of over 22 mm), which drive 150 mm-diameter wheels housed in a dedicated rack positioned vertically beside the spindles.

The machine, software and mechanics are all designed around the concept of two equally powered spindles that can be interchanged for all functions as required.

A single spindle is potentially capable of handling all the processing; the synchronised and simultaneous operation of the rear spindle notably reduces the time involved. The machine is equipped with a dedicated axis for automatic detection of the glass dimensions, combined with an "edge tracking" function, which allows the wheels to follow the edge as it is cut, even when slightly out of square.

The machine can be equipped with a system for processing low-emissivity (Low-E) glass and glass with special surface treatments.

The operating solutions made possible by the machine play an important role. Although these offer indirect advantages, they are properly part of the specific design choices and technical architecture of the machine.

They include:

- REVERSE LOADING MODE
- THE PROCESSING OF SHEET DIMENSIONS GREATER THAN THE LENGTH OF THE ROLLER CONVEYORS
- AUTOMATIC ADJUSTMENT OF THE GLASS OUTFEED HEIGHT FOR ALIGNMENT WITH MACHINES OF DIFFERENT HEIGHT

The following is a detailed list of the processes the machine can perform:

1. GRINDING

Is carried out using 150 mm-diameter diamond wheels and can be done on glass with straight or shaped edges, even if layered or treated. Grinding operations involve the use of both heads (front and rear) except on shaped edges, where the work must be done solely with the front spindle. With Sfill 101ML, processing can be carried out with a single wheel, for example, arrising or rough C-edging, or with different types of wheels in sequence, such as segmented or trapezoidal wheels. The processing can include the creation of corners with a slight radius or sharp corners.

2. POLISHING

Can be carried out both on large surfaces with 150 mm-diameter wheels and on small cut-outs with 50 or 30 mm-diameter wheels.

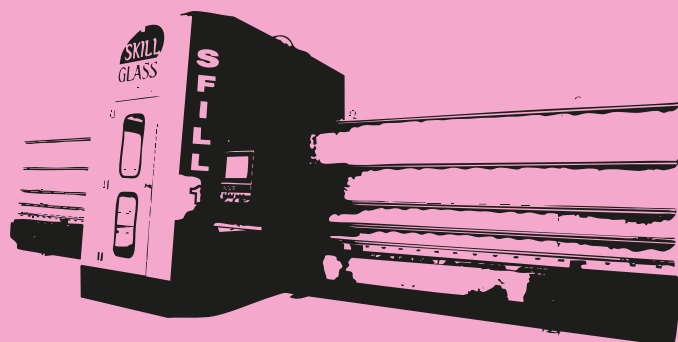
SFILL 101

3. HIGH PERFORMANCE ARRISING

SFILL 101 is equipped with two 4 kW spindles, a configuration that makes it the ideal solution for companies with continuous and single-item production. In this context the machine ensures **maximum speed of execution** and an unrivalled economic advantage, reducing processing times and costs. Its specialisation lies in the **unique glass arrising operation**, performed with V-shaped diamond peripheral wheels in fully automatic mode. Thanks to the simultaneous work of the two heads, SFILL 101 ensures **uniformity, precision and constant productivity**, characteristics that make it an irreplaceable tool for those seeking efficiency and continuous operation.



SFILL 101ML / SFILL 101



Machine dimensions with roller conveyors (other sizes available)

3000 X 2000

L 8500 mm
I 3000 mm
h 3275 mm

4500 X 2600

L 11400 mm
I 3000 mm
h 3920 mm

Machine carters

Painted steel

Basement structure

Galvanized and painted steel

Minimum glass size that can be processed

600 X 300 mm

Maximum glass size that can be processed

3000 X 2000 mm

4500 x 2600 mm

Minimum glass thickness allowed

3 mm

Maximum glass thickness allowed

30 mm

Working height from the ground (other sizes are available on request)

620 mm

Feed and working speed

0 - 35 m/min.

Standard electrical connection (other on request)

400 V 50 HZ

Power installed in standard configuration

30 kW

20 kW

Electric spindle power (nr. 2)

40 KW (13.6HP)

4 KW (5.3HP)

Electric spindles (2) power for machining thicknesses up to 30 mm

14 KW (19.0HP)

-

Electro-spindle rotation speed with internal tool cooling

0-12.000 rpm

0-10.000 rpm

Numerical control

9 AXES

6 AXES

Standard automatic tool change stations (front / rear / optional)

10 / 10

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WIN SFILL 101 CLASS

PREMIUM CLASS

16

SKILL WASH PRESENTATION



HIGH-TECH VERTICAL WASHING MACHINE FOR WASHING AND DRYING FLAT GLASS, WITH STRAIGHT OR SHAPED EDGES.

SKILL WASH

is the ideal solution for washing sheets of glass, combining **versatility, reliability and superior performance**. Designed to adapt to a wide range of applications, it can be used both in line (e.g., in production or double-glazing plants) or as a **stand-alone unit**.

Main characteristics:

COMPLETE PROCESS

high performance pre-wash, washing with 4 or 6 brushes and drying, with a dedicated quality control zone.

FLEXIBLE CONFIGURATIONS

available with washing sections for heights of 2.0, 2.6 and 3.3 metres, it offers numerous customisation options for the length and configuration of the roller conveyors.

MODES

available in the complete version, with infeed and outfeed rollers, or with a single outfeed roller conveyor for integration with existing machines.

INTUITIVE TECHNOLOGY

it is controlled by a **latest generation PLC**, with a simple and intuitive **touch screen panel**, suitable even for operators with minimum experience. All the work

parameters and cycles are easy to monitor and adjust. Thanks to its solid structure and advanced technology, **SKILL WASH** ensures impeccable washing results, maximum efficiency and ease of use, establishing itself as an industry benchmark for quality and innovation.

The **SKILL WASH** vertical washing machine is designed to offer maximum performance in terms of quality, efficiency and automation. Each component is studied to ensure ease of use, reliability and operational flexibility:

STRUCTURE AND ACCESSIBILITY

robust metal technical processing zone, 2.5 m in size (2.9 m for 6-brush models), front doors that are easy to remove.

QUALITY COMPONENTS

machine chassis made entirely from stainless steel, four or six-brush configuration, high-pressure fan, stainless steel outfeed frame with integrated lighting.

SMART TECHNOLOGIES

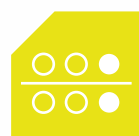
ergonomic control station, full in-line compatibility, automatic thickness detection, low emissivity (Low-E) glass sensors.

ADVANCED FUNCTIONS

SMS (Multi Station Unloading) technology. You can choose between 2 or 3 unloading and automatic rewashing function.

SKILL WASH CLASS

SKILL WASH



1. 4 TO 6 WASHING ROLLERS



4. WATER HEATER WITH THERMOSTATS

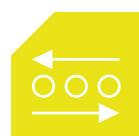
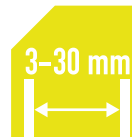


2. AUTOMATIC GLASS THICKNESS READING AND DETECTION OF SURFACES WITH SPECIAL TREATMENTS

6. INOX STAINLESS STEEL MACHINE BODY

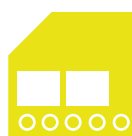


7. GLASS WASHING FROM 3 mm TO 30 mm

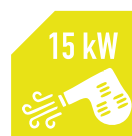


3. BIDIRECTIONAL CONVEYOR MOTORS AND REWASH FUNCTION

5. SMS FUNCTION (MULTI-STATION UNLOADING)



8. 15 KW HEATER/BLOWER WITH SELF-REGULATING ACTIVATION



PROCESSING



SKILL WASH

1 Prewash Section Protection and Quality on First Contact

Prewash is an essential phase in the cleaning process, designed to uniformly moisten the glass and to remove more stubborn dirt remaining from previous processes. This section is equipped with high-efficiency nozzles, fed by a constantly clean water circuit, for effective preliminary rinsing before the glass passes under the brushes.

The main benefits include:

- Greater final wash quality, thanks to the prior removal of dust, residues and impurities;
- Protection of the brushes, which only come into contact with pretreated surfaces, thereby reducing wear and maintenance needs;
- Operational efficiency, as the general performance of the machine is preserved over time.

The prewash section is therefore essential to ensure a safer, more effective and longer-lasting cleaning process.

2 Washing Section Precision, Efficiency and Reliability

The glass sheets are washed by means of 4 or 6 high-efficiency 180 mm diameter brushes, designed to ensure thorough cleaning without compromising the fragility of the treated material.

The collection and recirculation tanks are equipped with temperature sensors that optimise the heater power and enable smart water regeneration management, leading to energy savings and operational sustainability.

The brush motors and drives are installed in the upper part of the cabin, a design solution that ensures protection from spraying water and maximum accessibility for routine maintenance operations.

The brushes are of different types depending on their position:

- Rear brushes: 0.30 mm bristles, ideal for larger residues;
- Front brushes: 0.15 mm bristles, specifically designed for a delicate and precise finish.

This setup allows progressive and uniform cleaning, reducing surface wear and providing consistent results even on delicate glass or glass with surface coatings.

3 Drying Section Speed, Efficiency and Quietness

The sheets are dried by a high-pressure system consisting of a powerful fan that feeds a pair of stainless steel blowers, designed to ensure complete, rapid and uniform drying on glass of any size.

The system is optimised by a smart automatic actuator, which regulates the fan operation based on the incoming glass flow and the selected work program. This function avoids the risk of continuous switching on and off, helping to reduce energy consumption and optimise cycle times.

To ensure a quieter and more comfortable working environment, the fan is housed in a soundproof box, which significantly reduces noise emissions without compromising performance.

4 Outfeed Quality Control Visual Inspection

The outfeed roller conveyor has an integrated lighting system with strategically positioned lights, which allows a quick and accurate visual inspection of the glass sheets at the end of the washing cycle. This configuration allows you to check the washing quality directly on the line, without interrupting the work flow.



SKILL WASH



Machine dimensions including inlet and outlet roller conveyors,
for machine with 2 brush units (other sizes available)

3000 X 2000

L 9250 mm
I 3000 mm
h 3100 mm

4500 X 2600

L 12250 mm
I 3000 mm
h 3600 mm

6000 X 3300

L 15250 mm
I 3000 mm
h 4330 mm

Machine carters	INOX		
Basement structure	INOX		
Minimum washable glass dimensions	500 X 150 mm		
Maximum washable glass dimensions	3000 X 2000 mm	4500 X 2600 mm	6000 x 3300 mm
Minimum permissible glass thickness	3 mm		
Maximum permissible glass thickness	30 mm		
Maximum loadable weight of glass to be washed	Without weight limits		
Working height from the ground (other sizes available on request)	620 mm		
Number of washing sections (standard/optional)	2 / 3		
Total number of brushes (standard/optional)	4 / 6		
Brush diameter	180 mm		
Brush bristle diameter (front/rear)	(mm) 0,15 / 0,30		
Automatic and motorized brush pressure adjustment	YES		
Automatic low-emissivity glass (Low-E) detection	YES		
Automatic control system between the entered value and the detected thickness	YES		
Self-regulating heater for washing water	YES		
Quality control lights on the exit roller conveyor	YES		
Glass pre-washing system	YES		
Drying with 2 blowers / kW of blower power	SI / 15 kW		
Glass entry side / Glass exit side	At the customer's discretion		
Installed power	28,5 kW		
Standard electrical connection (other on request)	400 V 50 HZ		

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SKILL WASH

GLASS

ASSISTANCE – SERVICES



**GUIDED
BY THE GENUINE
PASSION
OF PEOPLE WHO
BELIEVE IN THEIR
WORK AND IN
CUSTOMER
SATISFACTION.**

EVOLVED AFTER-SALES MANAGEMENT WITH SERVICE-CRM PLATFORM PARTS SERVICE

1 To ensure efficient and prompt support, SKILL GLASS uses a dedicated platform based on a Service-CRM system for the integrated management of its after-sales services. This tool allows us to precisely monitor and manage all customer requests, with particular attention to the supply of materials and parts, ensuring rapid, traceable and professional support.

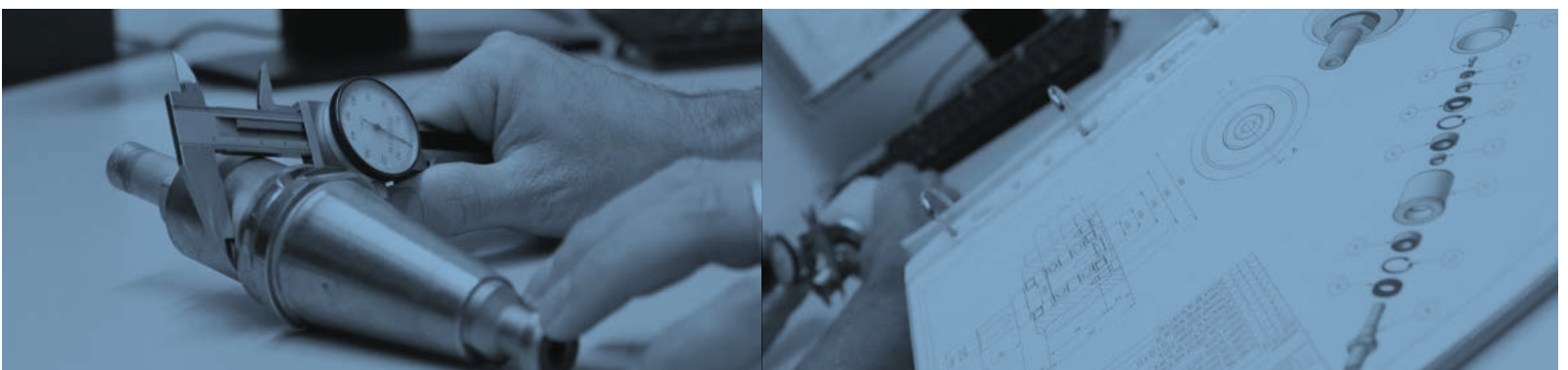
AFTER-SALES SUPPORT MANAGED IN AN INTEGRATED AND EFFICIENT MANNER

2 SKILL GLASS makes use of an advanced platform based on a Service-CRM system for integrated management of after-sales activities. This tool allows us to precisely monitor all support requests, ensuring prompt and effective interventions. Thanks to the support of our multi-lingual staff, we are able to communicate directly with

customers all over the world, offering an accessible and professional service. The direct remote support connection with our systems allows us to quickly intervene, reducing machine downtime and improving operational efficiency. The entire management through Service-CRM ensures constant control of the status of requests, with the punctuality and reliability that distinguish our service.

PROFESSIONAL TRAINING FOR OPTIMAL USE OF THE SYSTEM

3 SKILL GLASS focuses great attention on the preparation of the customer's operating staff. The purchase of a system includes a high-level technical training service, designed to transfer all the necessary skills and fully exploit the machine's potential, in a safe, efficient and autonomous manner right from the start.



OUR CATALOGS



PREMIUM CLASS CNC

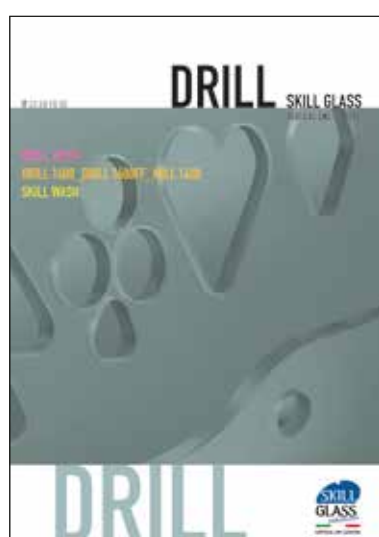
SKILL E-D

WIN CLASS

E-D 101

PREMIUM CLASS WASHING

SKILL WASH



WIN CLASS

DRILL 101FF

CORE CLASS

DRILL 1600 - DRILL 1006FF - MILL 1600

PREMIUM CLASS WASHING

SKILL WASH



PREMIUM CLASS CNC

SKILL SFILL

WIN CLASS

SFILL 101ML - SFILL 101

PREMIUM CLASS WASHING

SKILL WASH

SKILL GLASS

MADE IN ITALY



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