

# BCS

## Float Cutting



EN

Flat Glass Technology

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we • glass

**we •**

# glass

As a global leader in flat glass and hollow glass processing technology, we have been helping to shape one of the most beautiful and useful materials in the world for over 60 years. Its unique qualities, combined with the passion for technology and innovation, guide us in seeking for newer and more effective solutions to improve and expand its use.

**we cut glass**

# BCS: the highest productivity and quality standards in the industry

BCS cutting tables are designed to withstand the high workloads typically adopted during single- or even multiple-shift production of windows or panels in the furniture sector, as well as of components for household appliances, in the automotive industry and in many other areas. BCS cutting tables are among the most popular and sought-after in the world, and in the market they represent a major benchmark in terms of production capacity and reliability.



BCS cutting tables ensure the highest standards of performance, precision and reliability over time.





# The Range



The BCS range stands out due to its modularity and versatility, thanks to which the float cutting tables can be totally configured according to specific customer requirements: from stand-alone cutting tables intended for small productions, up to intensive high automation level production systems, fully integrated with Low-E grinding devices and marking, and loading and breakout modules.







### 343 BCS

Cutting, grinding and marking table fully integrated with manual or automatic loading and breakout modules, intended for applications requiring high productivity.

The 343 BCS cutting table is fixed and complete with belt conveyor, automatic selection of cutting pressures, Shape Scanner + Scan Cad, optimiser on the machine and BCMS Windows.

Evaluation based on comparison with other Bottero products of the same category.



|                  |                         |
|------------------|-------------------------|
| Plank Type       | On-line Cut             |
| Processed glass  | Float / LOW-E           |
| Processing       | Cut + 1 Additional Tool |
| Automation level | ★★★★★                   |





### 353 BCS

Loading, cutting, grinding, marking and breakout table intended for the wider range of applications. The 353 BCS cutting table is available in the two fixed and tilting versions and is complete with air cushion with quick closing, automatic selection of cutting pressures, Shape Scanner + Scan Cad, optimiser on the machine and BCMS Windows.

| Plank Type       | On-line Cut               |
|------------------|---------------------------|
| Processed glass  | Float / Laminated / LOW-E |
| Processing       | Cut + 1 Additional Tool   |
| Automation level | ★★★★                      |

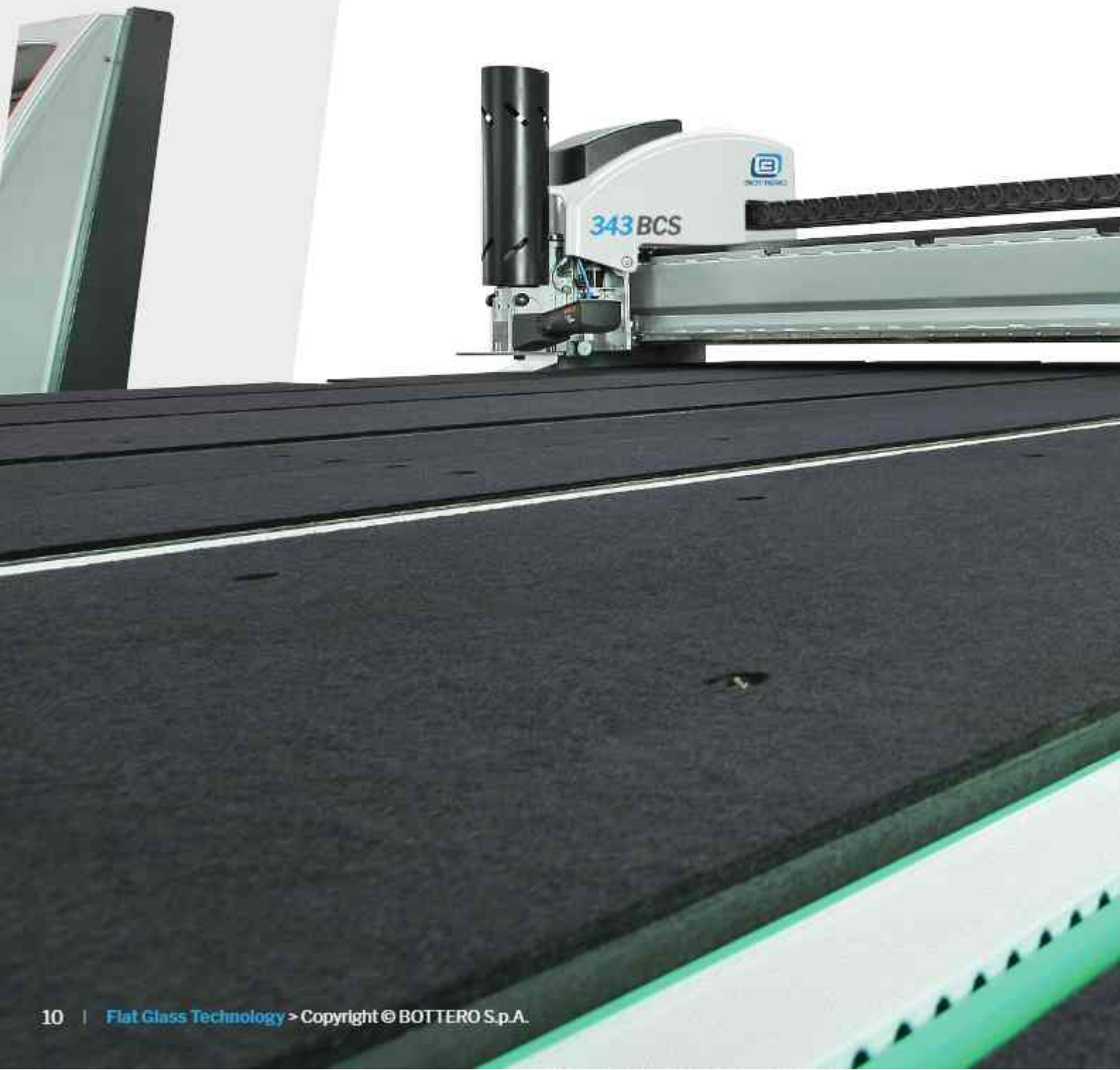


### 363 BCS

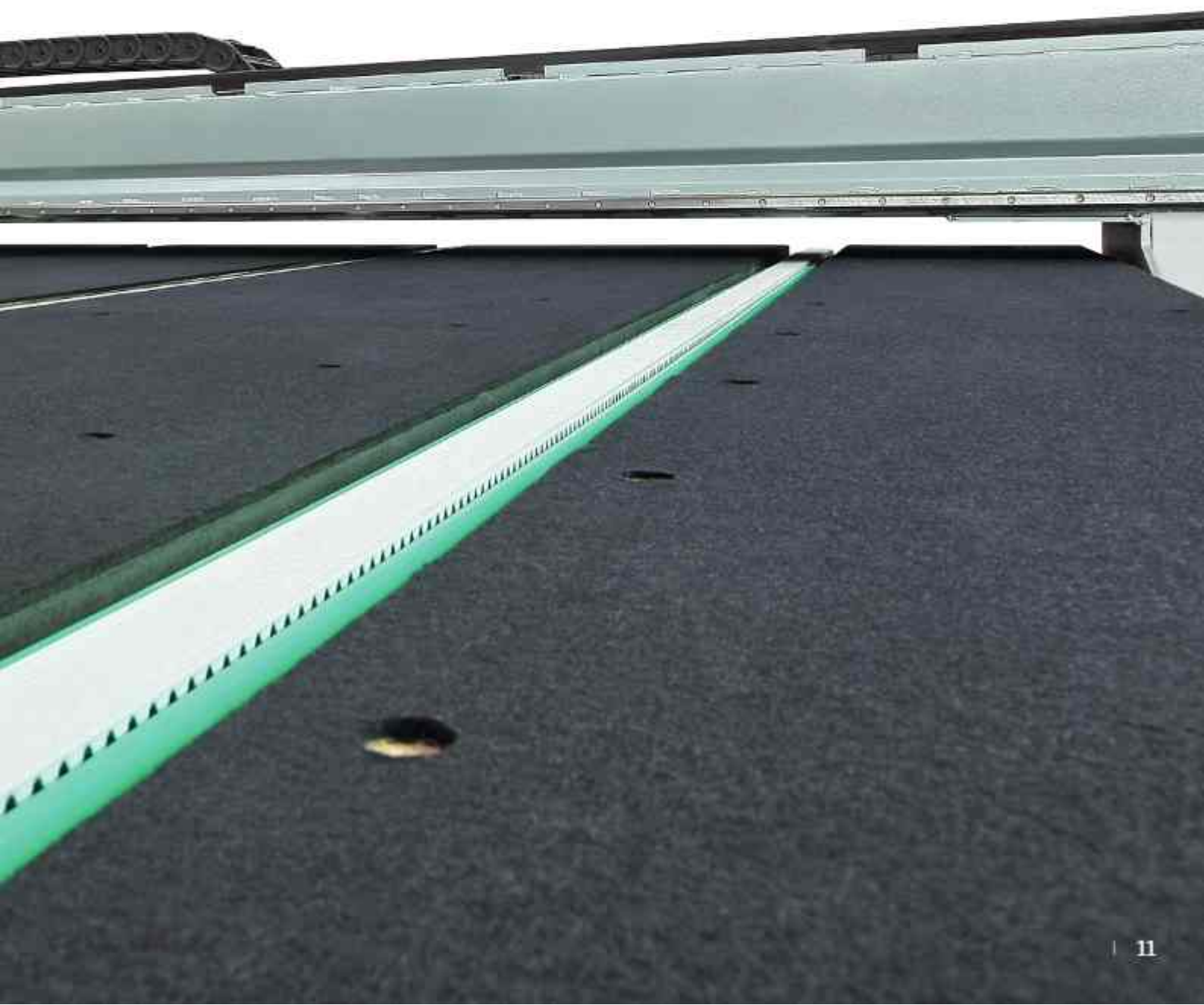
Loading, cutting, grinding, marking and breakout table fully integrated with manual or automatic loading and breakout modules and it can be coupled with cutting tables for laminated glass. The 363 BCS cutting table is available in the two fixed and tilting versions and is complete with air cushion with quick closing and belt conveyor, automatic selection of cutting pressures, Shape Scanner + Scan Cad, optimiser on the machine and BCMS Windows.

| Plank Type       | On-line Cut             |
|------------------|-------------------------|
| Processed glass  | Float / LOW-E           |
| Processing       | Cut + 1 Additional Tool |
| Automation level | ★★★★★                   |

# Features



With the aim of meeting all production needs, the BS cutting tables allow also fitting the cutting carriage with one of the various accessories available. Each constructive and functional features of the BCS range is designed to ensure extreme processing precision and maximum productivity, at the service of each specific production requirement.





## Devices and accessories



### LMT

Surface removal system on Low-E glass with 200 mm peripheral wheel and maximum working speed of 160 m/min, is the ideal solution for large productions of low-emissivity glass.

You can install grinding wheels with different thicknesses for different production needs, and the wheel is also able to remove any protective films.

The total coverage of the area being processed and the presence of the vacuum cleaner cancel the dispersion of dust in the environment, thus ensuring maximum safety for the operators.



### Easy deletion

Surface removal system on Low-E glass with 20 mm baffle grinding wheel and maximum working speed of 80 m/min, is the ideal solution for occasional productions of low-emissivity glass.

The approach stroke of the grinding wheel is managed via proportional valve and its path is also optimised for cut to shape, thus allowing to speed up the machine cycle time.

The total coverage of the area being processed and the presence of the vacuum cleaner cancel the dispersion of dust in the environment, thus ensuring maximum safety for the operators.





## PPL

The automatic labelling system is the best solution to obtain the glass traceability and consequently the more efficient organisation tool of the subsequent processes within the company.

The labelling system fitted on the BCS cutting tables allows performing the labelling cycle and cutting cycle simultaneously, with total flexibility on the label position and on the printed text, ensuring a significant reduction of the machine cycle times.



## LAMShape

Cutting, breakout and detachment system for the production of small batches of laminated glass to shape within a normal float glass production.

The innovative system patented by Bottero optimises the radiant power without overheating the glass and allows performing the final glass detachment operation without the use of other tools.

The total coverage of the area being processed avoids flash leakage, thus ensuring maximum safety for the operators.

# Tilting Frame

- 1** Electric control cabinet that can be repositioned externally for cleaning and maintenance.
- 2** Double tank for use of differentiated oils in the processing of special glass.
- 3** Small and immediately accessible hydraulic tilting control unit.
- 4** Fan for air cushion with quick closing system, installed directly on the tilting frame.
- 5** Air distribution circuit integrated within the structural frame.
- 6** Fully machined, electro-welded steel frame.
- 7** Longitudinal and transversal wood breakout bars, activated by dedicated pneumatic cylinders.
- 8** Tilting system with two hydraulic cylinders, balancing valves and controlled acceleration and deceleration ramps.
- 9** Mobile floor pedals for controlling the breakout bars, air cushion and loading and squaring lugs.







## Fixed table with belts

- 1** Direct motoreducer on torque shaft without returns.
- 2** Electro-welded steel frame with high stiffness and solidity.
- 3** Inverter-controlled polyurethane belts for handling the sheet in both directions.
- 4** Rectified and fully replaceable wooden panels with felt, mounted on a machined surface.
- 5** Highly homogenous and resistant 3 mm felt.
- 6** Sheet position detection sensors and independent safety device for belt locking.
- 7** Additional air cushion for handling 25 mm thick sheets.
- 8** Retractable squaring lugs driven by one dedicated pneumatic cylinder.
- 9** Ergonomic and mobile control pulpit, complete with high-definition colour monitor and intuitive optimisation and CAD software.







# Tilting Panel

- 1** Mobile floor pedals for controlling the breakout bars, air cushion and loading and squaring lugs.
- 2** Armoured cable sheaths for maximum protection.
- 3** Retractable loading lugs driven by one dedicated pneumatic cylinder and guaranteed outlet system.
- 4** Independent safety device for locking belts.
- 5** Inverter-controlled polyurethane belts for handling the sheet in both directions.
- 6** Rectified and fully replaceable wooden panels with felt, mounted on a machined surface.
- 7** Sheet pusher for sheet loading with glass take out.
- 8** Highly homogenous and resistant 3 mm synthetic felt.
- 9** Additional air cushion for handling 25 mm thick sheets.







# Carriage and cutting head

## Cut

Motorised cutting head, formed by an aluminium alloy body and rod with cutting tool or plastic cut. Automatic glass thickness measurement by linear encoder and consequent automatic loading of the cutting parameters preset in the software.

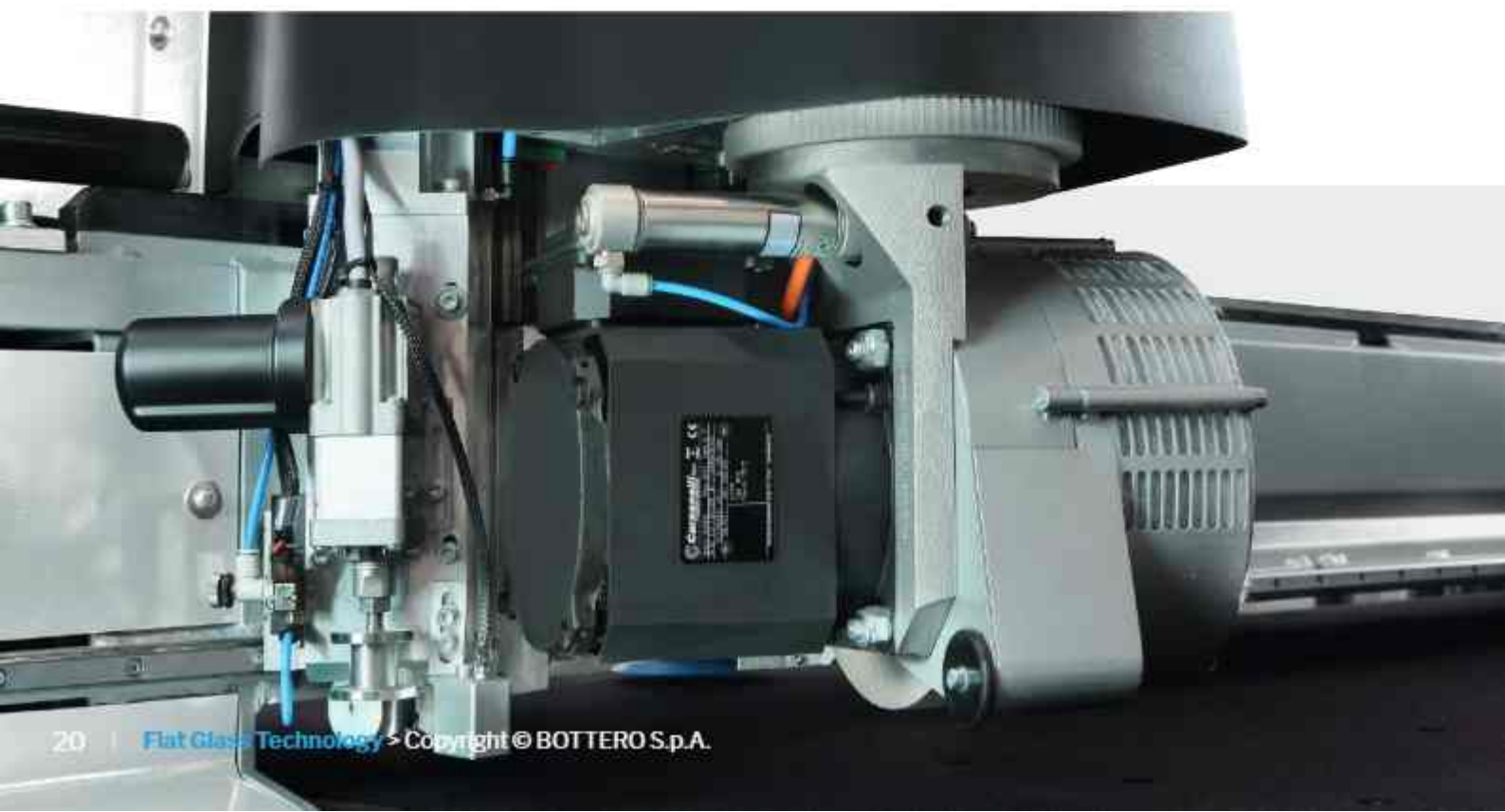
Cutting pressure adjusted by means of proportional solenoid valve and glass surface compensation system.

## Safety

Glass presence detector and end element of the rod with controlled breakage, easily replaceable, to avoid mechanical stresses on the carriage and bridge in case of collision.

## Trolley

Aluminium carriage with control and management electronics of the on-board head, complete with optical sensor able to perform the electronic squaring of the sheet and automatically acquire a shape thanks to the Shape Scanner system.





# Cutting bridge

## Structure

Steel cutting bridge placed crosswise to the machine for maximum solidity and resistance to torsion.

## Drive

Single brushless motor with pinion motor belt transmission.

## Transmission unit

Torque shaft for the accurate and balanced motion transmission along the bridge.

## Carriage handling

High precision and low noise carriage linear sliding guides, ground and installed on machined surface.



# Bridge Handling

## Guides

High precision and low noise bridge sliding guides, ground and installed on machined bed, ensuring a perfectly straight cut without the need for adjustment.

## Materials

Components made of highly durable and minimal wear materials, ensuring optimal performance over time.



## Racks

Ground racks, ensuring maximum positioning and cutting precision, and facing down to prevent the accumulation of dirt.

## Maintenance

Easily accessible components, ensuring immediate and fast maintenance.









# Control cabinet

## Pulpit

Ergonomic and mobile control pulpit on independent wheels, for easy access to the interface and safety controls, complete with high-definition colour monitor and intuitive optimisation and CAD software developed on Windows operating system.

## Software

Original software able to realise any cutting, grinding or labelling scheme with optimisation of the tool path to minimise the machine cycle time.

Constant electronic control of all cutting parameters, ensuring an excellent and constant engraving quality for an easy and fast breakout.

High level CAD and optimisation software can also be installed.



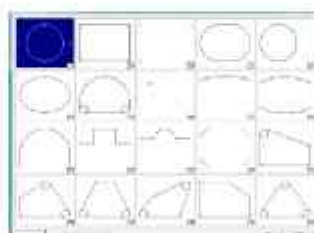
### Interface

Simple and intuitive operator interface developed on Windows operating system, bearing in mind the various needs. The operator is guided by the interface during the entering of cutting data and in all machine operative functions. All software indications and commands are available in multiple languages.



### Editor

Editor for the manual composition of the cutting schemes, or for editing imported cutting optimisations. Particularly suitable for fast and immediate cuts, it allows entering different nested cutting levels, as well as diagonal and shape cuts.



### Shapes Catalogue

Library of parametric shapes, allows entering the most common shapes in the cutting scheme, customising them by entering the relevant parameters. The Scan Cad program allows modifying and optimising the shapes in simplified CAD environment.



### Optimiser

Simple and efficient optimiser with reduced set of parameters for greater ease of use, it processes the data while the machine is operating, without stopping or delaying the main sheet cutting function.

## Remote assistance

Remote assistance and diagnostic service through Internet connection, which ensures rapid and effective intervention of a qualified technician directly on the control panel.

# Details

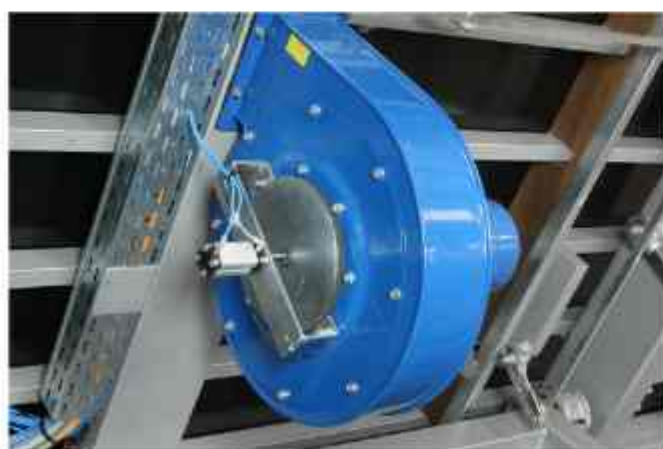
The high quality standard of the BCS range is particularly noticeable in the care for details: each component is carefully studied and designed to offer performance measuring up to the most demanding requirements, making the machine even safer and more performing.



## Electric control cabinet and sheaths

Electric control cabinet that can be repositioned externally for easier cleaning and maintenance.

Armoured cable sheaths for maximum protection against accidental cuts.



## Fan with quick closing

Fan for air cushion with quick closing system, installed directly on the tilting frame to ensure the absence of leaks.

Air distribution circuit integrated within the structural frame, for a perfect efficiency and power of the air cushion.







### **Structural frame**

Highly stiff solid electro-welded steel frame to eliminate any vibration, fully machined to ensure a perfect planarity of the work table.



### **Tilting**

Tilting system with two hydraulic cylinders fitted with independent fall protection safety valves, balancing valves and controlled acceleration and deceleration ramps. Down tilting managed by non-self-maintained push-buttons, further guarantee of operator safety.



### **Pedal commands**

Mobile floor pedals for managing the breakout bars, air cushion and loading and squaring lugs, fully repositionable as required.

## Double oil tank

Double tank for use of differentiated oils in the processing of special glass, especially Low-E glass, for maximum production flexibility.

The type of lubricant is selected by the operator or directly by the software according to the machined glass.

Tanks with visual indicators for the immediate control of the amount of residual oil.



## Tilting control unit

Small and immediately accessible hydraulic tilting control unit for easy maintenance.



## Breakout bars

Longitudinal and transversal wooden bars, activated by dedicated pneumatic cylinders, for an immediate and effective breakout of the glass.







## Conveyor belts

Inverter-controlled polyurethane belts for the safe and fast handling of the sheet in both directions.



## Panels

Rectified and fully replaceable wooden panels with felt, mounted on a machined surface for a perfect planarity of the work table.

Highly homogenous and resistant 3 mm felt, ensuring high performance and minimal wear.



## Squaring lugs

Retractable squaring lugs driven by one dedicated pneumatic cylinder.

Easy and immediately replaceable PTFE lug coverage.





### **Loading lugs**

Retractable loading lugs driven by one dedicated pneumatic cylinder, complete with mechanical safety system for forced lowering after sheet loading.

Easy and immediately replaceable rubber lug coverage.



### **Sheet pusher lugs**

Sheet pusher lugs for easier take out extraction in case of sheet loading with glass take out.



### **Cut lubrication**

Cut lubrication control by means of special manual valve, also suitable for use with high evaporating oils, to ensure an excellent and constant engraving quality.

The BCS control software controls the opening and closing of the lubrication valve so as not to have excess oil at beginning and end of cut.

## Plastic cut

Engraving system of the plastic layer on the glass before the subsequent sandblasting process.

Automatic management of the plastic engraving pressure and lubrication cancellation.



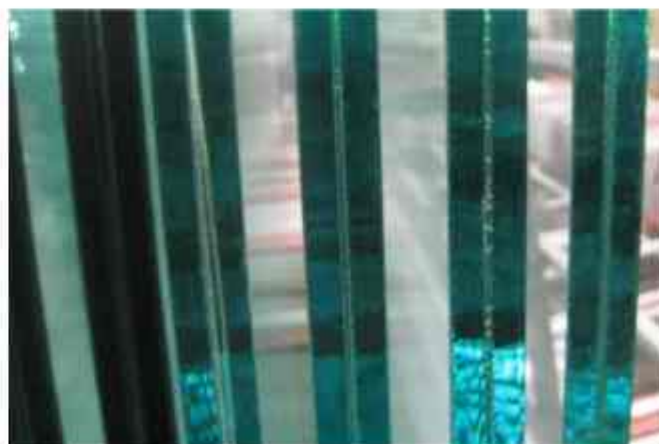
## Sheet conveyor

Sheet conveyor system with suction cups or lugs, driven by non-self-maintained push-buttons, to ensure operator and process safety, it allows handling the sheet on the breakout table without any effort.

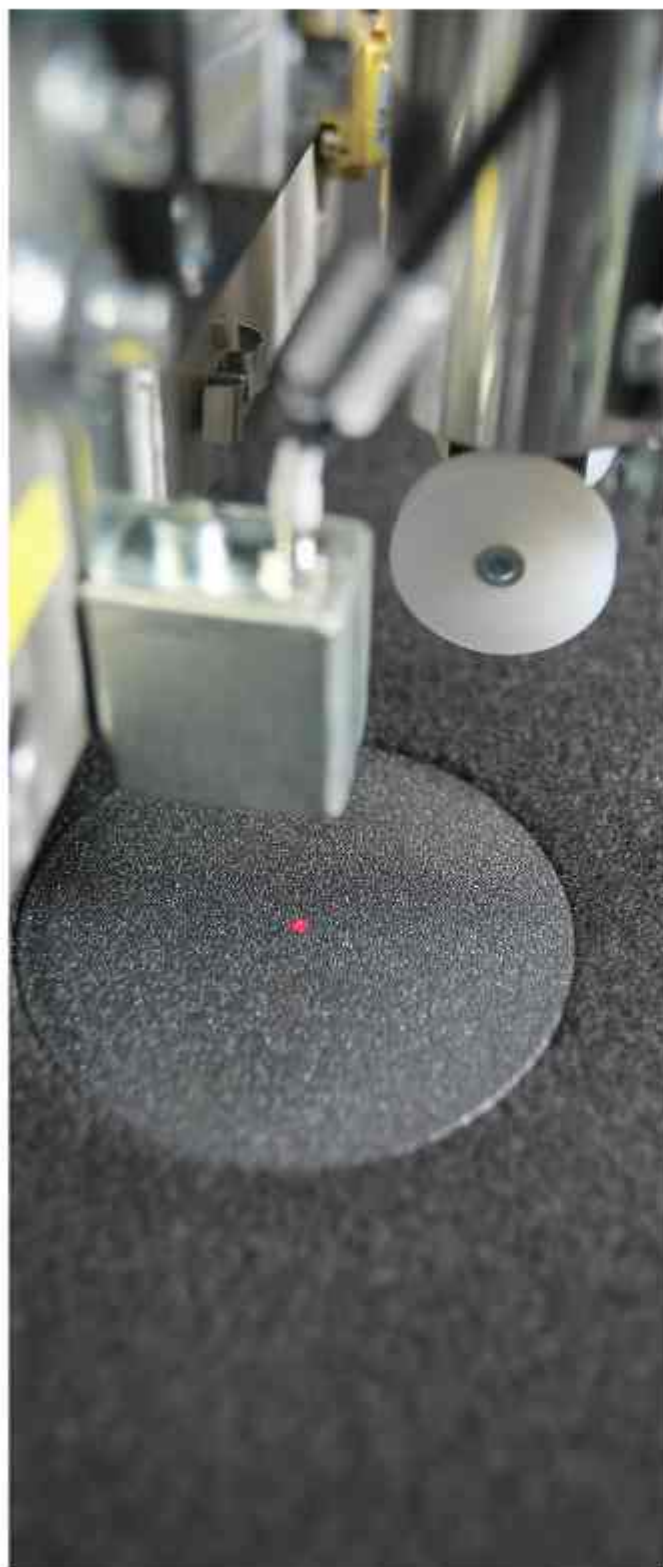


## Specular Cycle

Thanks to this function, you can also cut a scheme on both sides of a laminated glass. The cycle can also be performed with schemes containing very complex shapes. In the presence of the Lam Shape option, in addition to the cut, the BCS can also breakout and separate the PVB.







### **Electronic squaring**

Squaring of electronic search sheet as well as significantly speed-up the machine cycle time allows the operator to position the glass without having to square it on mechanical references. The system also allows measuring with decimal precision the glass to be cut and it can be used on the automatic lines to check the integrity of the sheet.

### **Shape scanner**

The shape scanner or the electronic detection and digitisation system of the templates allows maximum flexibility of production. It can detect various materials, from glass to paper, and it can detect up to 20 templates simultaneously. The software integrated with the option allows modifying the acquired profiles in a few steps and correct any template imperfections.

## Wheel grinding and measurement

Fully automatic peripheral wheel grinding and measurement cycle, to always ensure its excellent performance.

Low-E removal tool is constantly measured in order to adjust the rotation speed and ensure maximum performance. The control software also alerts the operator when it must be replaced.

The tool grinding, automatically set by the operator, ensures maximum quality and sharpness of the processing.



# Performance

A complete, modular and versatile range, fully configurable according to each specific production requirement.

The Bottero tables guarantee top performances at 360°, intended as cycle execution speed, accuracy and reliability over time.

| Working speed                             | 343        | 353        | 363        |
|---|------------|------------|------------|
| Maximum bridge speed                      | 140 m/ min | 140 m/ min | 140 m/ min |
| Maximum carriage speed (*)                | 200 m/ min | 200 m/ min | 200 m/ min |
| Maximum grinding speed with Easy deletion | 80 m/ min  | 80 m/ min  | 80 m/ min  |
| Maximum grinding speed with LMT           | 160 m/ min | 160 m/ min | 160 m/ min |

(\*) the maximum carriage speed is 160 m/min in the presence of LMT, PPL or LAM Shape set-ups.

| Thicknesses which can be cut | 343        | 353                      | 363        |
|------------------------------|------------|--------------------------|------------|
| Standard thicknesses         | 2 ÷ 19 mm  | 2 ÷ 19 mm                | 2 ÷ 19 mm  |
| Optional thickness           | 19 ÷ 25 mm | 19 ÷ 25 mm<br>0,4 ÷ 2 mm | 19 ÷ 25 mm |

| Accuracy                               | 343    | 353    | 363    |
|--|--------|--------|--------|
| Cutting accuracy on straight processes | ± 0.15 | ± 0.15 | ± 0.15 |

| Work table       | 343         | 353         | 363         |
|------------------|-------------|-------------|-------------|
| Worktable height | 930 ± 40 mm | 930 ± 40 mm | 930 ± 40 mm |

| Compressed air consumption | 343       | 353       | 363       |
|----------------------------|-----------|-----------|-----------|
| Compressed air consumption | 70 NL/min | 70 NL/min | 70 NL/min |



|   |                       |            |            |
|---|-----------------------|------------|------------|
| <b>Air consumption with Easy Deletion</b> | <b>343</b>            | <b>353</b> | <b>363</b> |
| Air consumption with Easy Deletion        | 500 NL/min            | 500 NL/min | 500 NL/min |
| <b>Installed power</b>                    | <b>343</b>            | <b>353</b> | <b>363</b> |
| Jumbo                                     | 16 KVA                | 12,5 KVA   | 24 KVA     |
| Regular                                   | 16 KVA                | 10,25 KVA  | 17 KVA     |
| <b>Additional powers</b>                  | <b>343</b>            | <b>353</b> | <b>363</b> |
| Tilting Panel                             | -                     | 2,75 KVA   | 2,75 KVA   |
| Air cushion                               | 3 KVA (R) - 6 KVA (J) |            |            |
| Easy Deletion                             | 1 KVA                 | 1 KVA      | 1 KVA      |
| LMT                                       | 2 KVA                 | 2 KVA      | 2 KVA      |
| PPL                                       | 1 KVA                 | 1 KVA      | 1 KVA      |



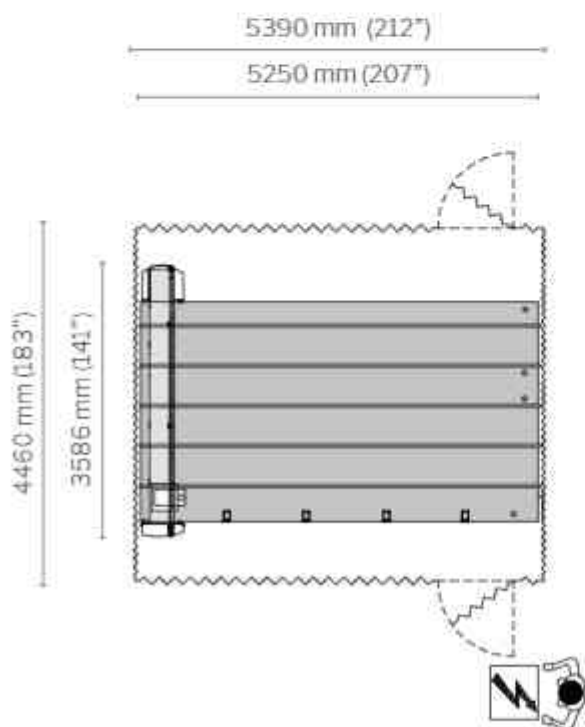
# Dimensions

A complete, modular and versatile range, fully configurable according to the specific customer's overall requirements.

The following pages show some layouts of tilting tables and standard lines, or in jumbo and regular dimensions. However, it is important to know that the BCS range can be customised and process sheets of up to 12 metres.

## 343 BCS Regular

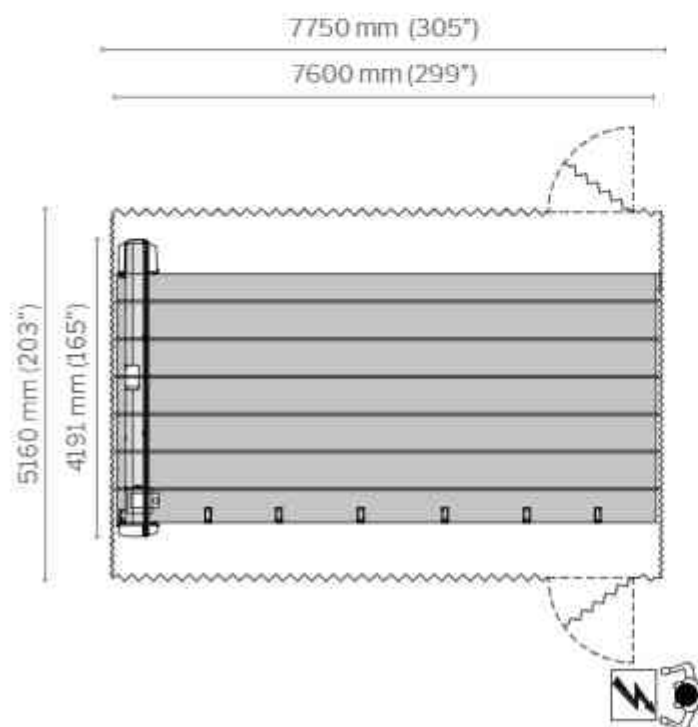
|  | mm          | in        |
|--|-------------|-----------|
| Maximum dimension of processable sheet | 3810 x 2750 | 150 x 108 |





### 343 BCS Jumbo

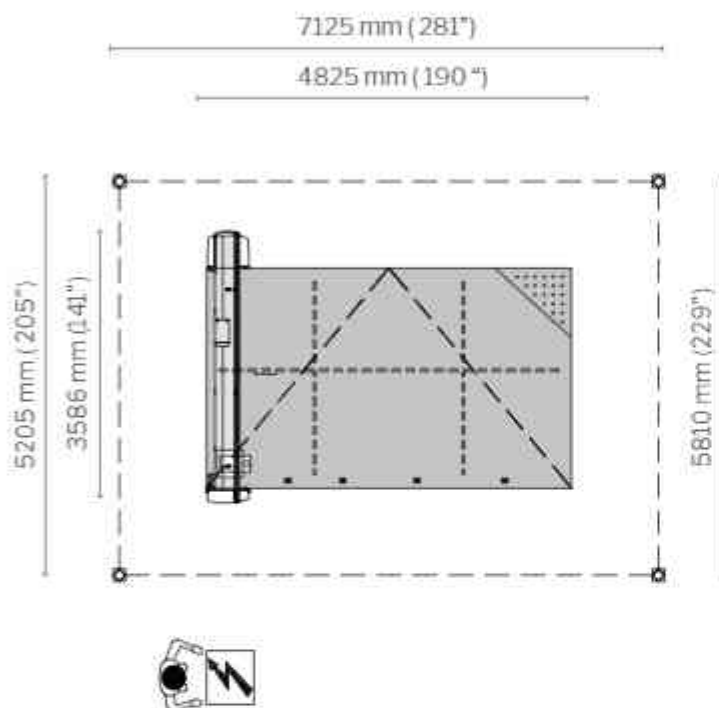
|  | mm        | in      |
|--|-----------|---------|
| Maximum dimension of processable sheet | 6100x3355 | 240x132 |





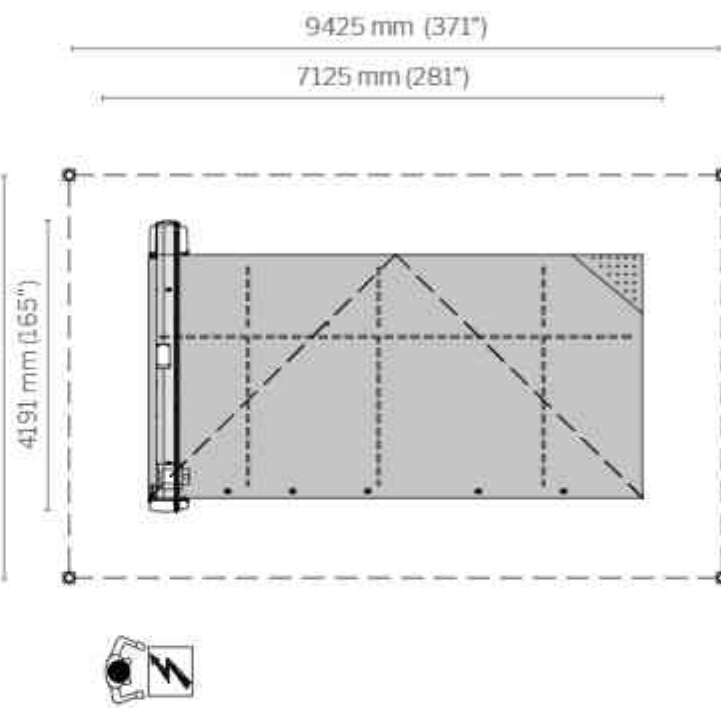
### 353 BCS Regular

|  | mm          | In        |
|--|-------------|-----------|
| Maximum dimension of processable sheet | 3810 x 2750 | 150 x 108 |



### 353 BCS Jumbo

|  | mm        | In      |
|--|-----------|---------|
| Maximum dimension of processable sheet | 6100x3355 | 240x132 |

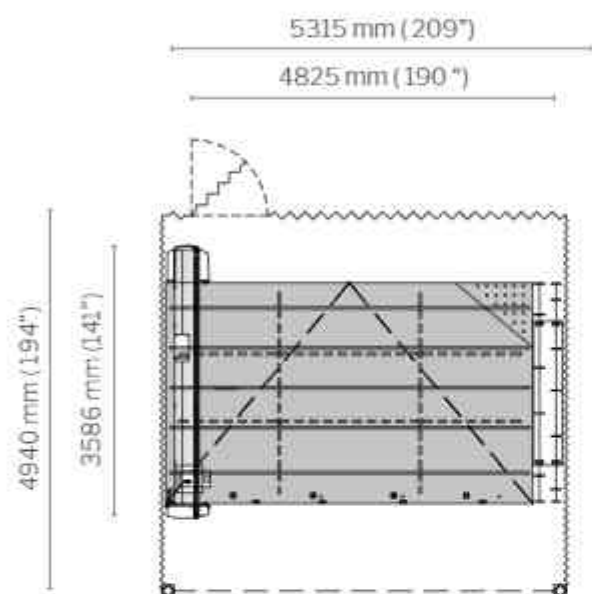


### 353 BCS + 103 BBM

|         | A        | B       | C       | D       | E       | F       |
|---------|----------|---------|---------|---------|---------|---------|
| Regular | 10870 mm | 4825 mm | 4825 mm | 1150 mm | 5205 mm | 2905 mm |
| Jumbo   | 15470 mm | 7125 mm | 7125 mm | 1150 mm | 5810 mm | 3510 mm |
| Regular | 428 in   | 190 in  | 190 in  | 45 in   | 205 in  | 114 in  |
| Jumbo   | 609 in   | 280½ in | 280½ in | 45 in   | 229¾ in | 138 in  |

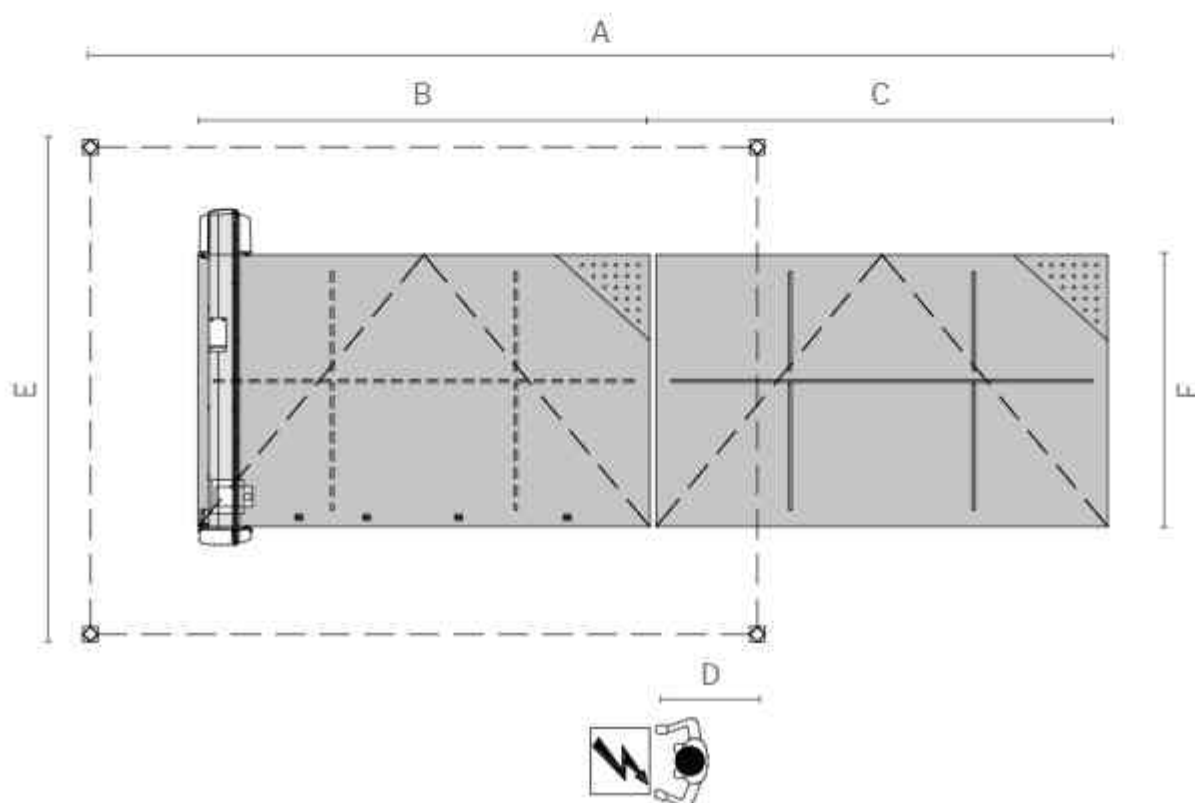
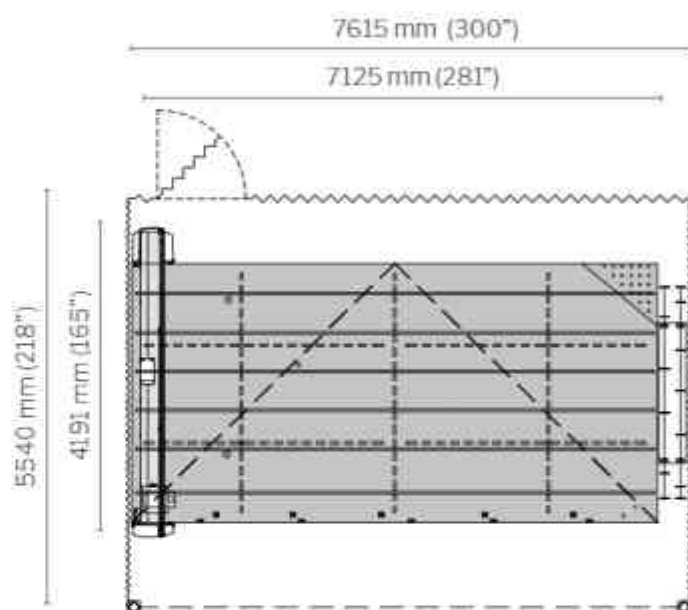
## 363 BCS Regular

|  | mm          | In        |
|--|-------------|-----------|
| Maximum dimension of processable sheet | 3810 x 2750 | 150 x 108 |

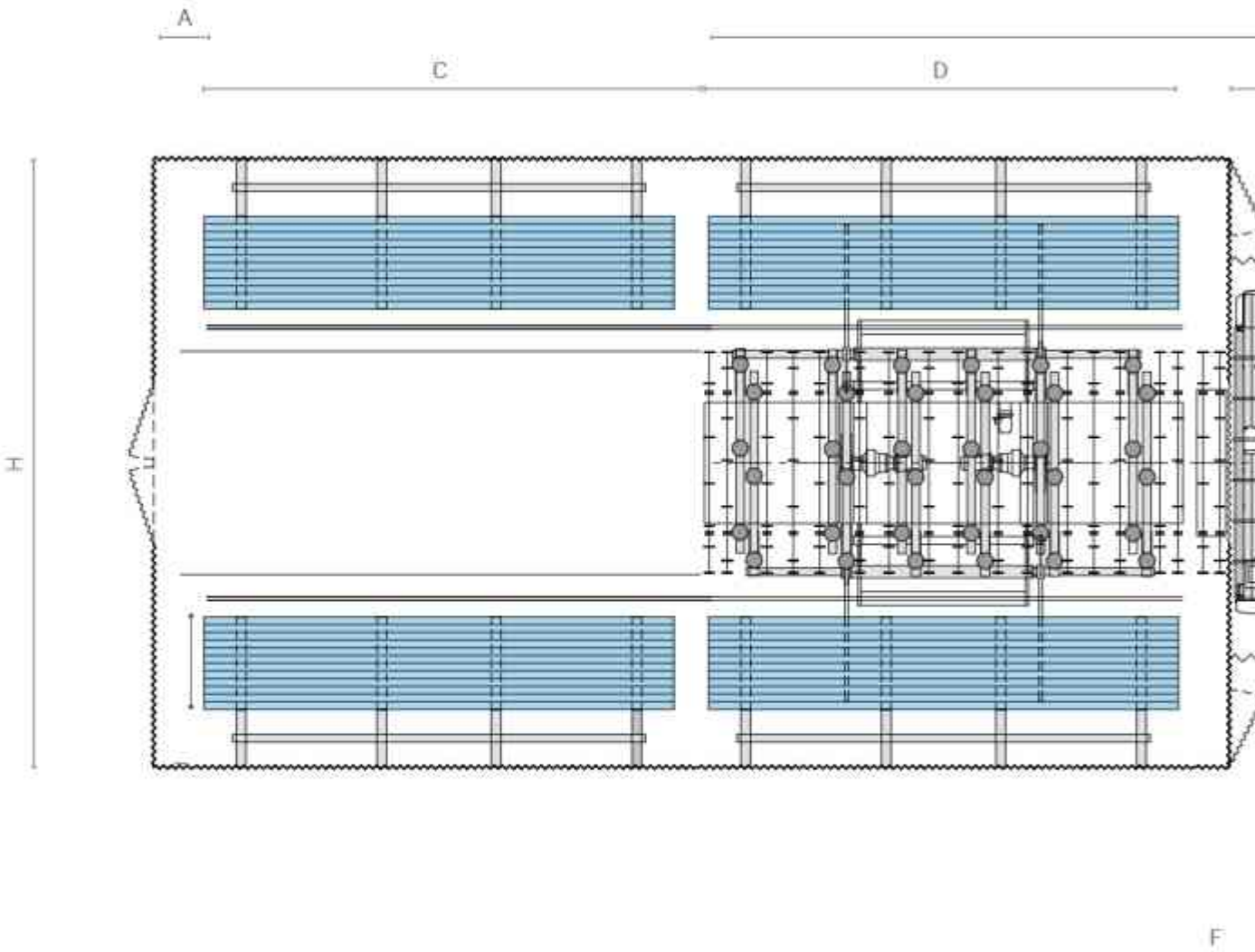


## 363 BCS Jumbo

|  | mm        | In      |
|--|-----------|---------|
| Maximum dimension of processable sheet | 6100x3355 | 240x132 |



630 CBM + 343 BCS + 103 BBM



|         | A      | B        | C       | D       | E       |
|---------|--------|----------|---------|---------|---------|
| Regular | 810 mm | 14498 mm | 4100 mm | 3650 mm | 5390 mm |
| Jumbo   | 655 mm | 21658 mm | 6550 mm | 6100 mm | 7750 mm |
| Regular | 32 in  | 571 in   | 161 in  | 144 in  | 212 in  |
| Jumbo   | 26 in  | 853 in   | 258 in  | 240 in  | 305 in  |



43

# Options and set-ups

|  | 343-R | 343-J | 353-R | 353-J | 363-R | 363-J |
|--|-------|-------|-------|-------|-------|-------|
| Assembly For Labeling System                                       | •     | •     | •     | •     | •     | •     |
| Assembly For Low-E Edge Deletion By Cup Wheel                      | •     | •     | •     | •     | •     | •     |
| Assembly For Low-E Edge Deletion By Peripheral Wheel               | •     | •     | •     | •     | •     | •     |
| Assembly LAM-Shape - Includes Easy-Deletion                        |       |       | •     | •     |       |       |
| Differential Circuit-Breaker For TT Power Supply Systems           | •     | •     | •     | •     | •     | •     |
| Transformer For Power Supply Different From 380/400/415Volt        | •     | •     | •     | •     | •     | •     |
| 1 Automatic Frontal Squaring Lug                                   |       |       | •     | •     | •     | •     |
| 1 Automatic Lateral Squaring Lug                                   |       |       | •     | •     | •     | •     |
| 1 Manual Insertion Frontal Lug For Reference Guiding For Lamilinea | •     | •     | •     | •     | •     | •     |
| 1 Manual Insertion Lateral Lug For Reference Guiding For Lamilinea | •     | •     | •     | •     | •     | •     |
| Additional Breakout Bar  |       |       | •     | •     | •     | •     |
| Additional Longitudinal Breakout Bar                               |       |       |       |       | •     | •     |
| Air Conditioning System For Electrical Cabinet                     | •     | •     | •     | •     | •     | •     |
| Air Cushion Module W = 380mm For Coupling Between Machines         |       |       | •     | •     | •     | •     |
| Air Cushion  | •     | •     |       |       |       |       |
| Automatic Squaring Lugs  |       |       |       |       | •     | •     |
| Automatic Tilting Arms   |       |       |       |       |       | •     |
| Backward Transport - From Table To Loader                          | •     | •     |       |       | •     | •     |
| Backward Transport - From Breakout To Cutting Table                | •     | •     |       |       | •     | •     |
| Breakout Bars Assembly (1+1)                                       |       |       | •     |       | •     |       |
| Breakout Bars Assembly (2+1)                                       |       |       |       | •     |       | •     |

|   | 343-R | 343-J | 353-R | 353-J | 363-R | 363-J |
|---|-------|-------|-------|-------|-------|-------|
| Cutting Head Approaching Device   | *     | *     | *     | *     | *     | *     |
| Double Cutting Oil Tank (Already Included On Machines With Assembly E/F/L/Q/T)                      | *     | *     | *     | *     | *     | *     |
| Foot Pedal Switch For Slow Transport - Loading Table Joined With Belts Cutting Table                | *     | *     |       |       | *     | *     |
| Frame Hold-On The Sheet Of Glass (Only If Combined With 548LAM)                                     |       |       |       |       | *     | *     |
| Glass Cleaning Kit For Labeling System  | *     | *     | *     | *     | *     | *     |
| GS - Cutting Up To 25mm Glass Thickness   | *     | *     | *     | *     | *     | *     |
| Kit For Covering The Slots Created By The Absence Of Breakout Bars                                  |       |       | *     | *     |       |       |
| Kit For Minimum Glass Transporto (400x300mm) Mandatory For Combination With 548LAM + Kit LMC-D-E108 | *     | *     |       |       | *     | *     |
| Kit For Minimum Glass Transporto (500x500mm) Mandatory For Combination With 548LAM                  | *     | *     |       |       | *     | *     |
| Kit For Special Glass Reading Or Other Materials (Ultrasonic Sensor)                                | *     | *     | *     | *     | *     | *     |
| Lean-To Device  |       |       | *     | *     | *     | *     |
| Loading LuGS  |       |       | *     | *     | *     | *     |
| Longer Connection Between Machine And Control Cabinet   | *     | *     | *     | *     | *     | *     |
| Lugs For Glass (Max 19mm) Transport On Air Cushion  |       |       | *     | *     |       |       |
| Manual Tilting Arms   |       |       |       |       |       | *     |
| Rollers Module W = 380mm For Coupling Between Machines  |       |       | *     | *     | *     | *     |
| Sandblast Plastic Cutting   | *     | *     | *     | *     | *     | *     |
| Tilting Motion Assembly   |       |       | *     | *     | *     | *     |
| Vacuum Cups For Glass (Max 19mm) Transport On Air Cushion   |       |       | *     | *     |       |       |
| Vacuum Cups For Glass Transport On Air Cushion For Dual Line With 520LAME                           |       |       | *     | *     |       |       |
| Double Control (Foot Pedal) For 1 Breakout Bar  |       |       | *     | *     | *     | *     |
| Push Button Panel For Glass Transport   | *     | *     | *     | *     | *     | *     |
| Connection To An Existing Loading Machine   | *     | *     |       |       | *     | *     |
| Optimization + Labels + Shape Catalogue + Cad   | *     | *     | *     | *     | *     | *     |
| 1 Label Roll For PPL Printers (1 Roll = 2000 Labels)  | *     | *     | *     | *     | *     | *     |

\* already included with Easy deletion and LMT set-ups

\*\* only for machines equipped with labeller



# Bottero, the choice of the greatest

**With us, you have all the experience and technology that we use to serve the largest industries**

With Bottero, you don't simply buy products but the entire experience, the technology and the organisational skills of a company that can provide very high productivity glass processing plants, and the selected supplier of some of the most important companies in the world.





more than  
**50.000** installations  
all over the world



With thousands of installations spread all over the world, Bottero guarantees first-class technical and commercial assistance.

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**Revimac S.r.l.**  
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**Bottero UK Limited**  
Rochdale - Great Britain

**Bottero France SA**  
Roanne - France

**Bottero do Brasil**  
S. Paulo - Brasil

**Bottero Flat Glass Inc.**  
Kernersville - North Carolina - USA

**Bottero Glass Industry Co. Ltd**  
Shanghai - China



Above and to the side:  
some high-productivity lines  
manufactured by Bottero.

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## Discover the Bottero technology for **Flat Glass**



Float Cutting  
Glass Stock Management  
Straight Line Edgers & Bevellers  
Double Edgers  
CNC  
Laminated Lines

Coating Lines  
Float Lines  
Laminated Lines  
Mirror Lines  
Off line Cutting  
Packing Lines  
Solar Lines

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