

GCV |
glassmachinery



Picasso

V2



WHEN PERFECTION GETS ENHANCED



INTRODUCTION

The new Picasso machine has been designed and manufactured by GCV and Creative Resins' engineering teams in Spain and United Kingdom.

For the very first time a company producing resins and paints for the glass industry releases an application system specifically designed for and around its own products, achieving the maximum guarantees and rentabilities.

Buying from one supplier ensures all technical expertise and back up service lies with one company who has technicians worldwide. All training is supplied by us - the Manufacturers of the machine and the paints so we are able to offer the best advice on how to use your machine in the most economical way. We are not purely machine manufacturers so we want our customers to use the machine and the resins. One supplier - one warranty - ensuring professional after sales service every time.

Picasso machine features also an offsite remote access through which our technical department could connect directly to the machine to solve any issue; your production will never be halted again.

REMEMBER TO ALWAYS ASK FOR GUARANTIES AND COMPATIBILITY SHEETS TO THE FABRICANT OF THE RESINS AND THE MACHINES.

This new Picasso V2 arrives to answer the requirements from many costumers around the world.

Faster, easier to clean and use, modular design and much more.



FEATURES AND BENEFITS

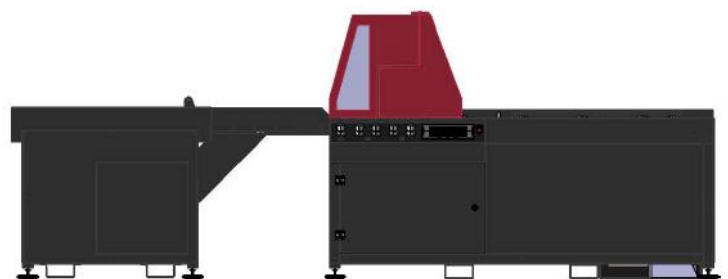
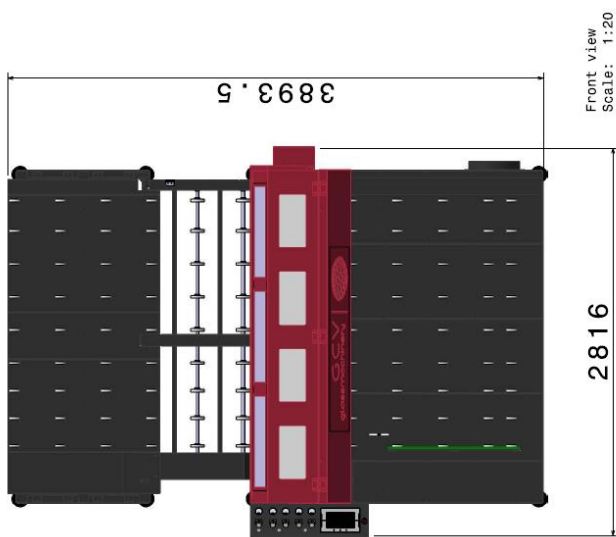
- Automatic painting system.
- Fast, simple and clean. Fully automatic cleaning system.
- Maximum profitability and increased production but reduced labor costs.
- The quickest system cleaning and color changing in glass industry today (less than 2 minutes).
- 90% reduction on product wasted compared to manual spraying and 47% compared to a roller coater.
- Intuitive software and touch screen adaptable to any language.
- Different sizes available: 180cm and 260cm width
- Exclusive air filter system - no extraction needed allowing the machine to be placed anywhere in your factory.
- Automatic cleaning function.
- The latest sensor control technology ensuring precision spraying every time.
- No product wastage - the product is recirculated allowing cleaning and refilling in approximately 1.5 minutes.
- Open tanks ensuring no size limitation on paint containers - increasing production per hour.
- Resin catalyst and pigment recycled to stop settlement.
- Automatic paint dosing system attachable.
- Drying and cooling station attachable allows to dry the coat completely so the glass can be stored vertically right after coming out of the machine.
- Working rate: up to 200 m2 per hour
- Advantages of having the same supplier for the paints and the machine, easing the product importation, post sale and technical service and ensuring the best possible guarantee and training.

YOUTUBE CHANNEL:

<https://www.youtube.com/channel/UCs0w72NyAncmALLtMAG3doQ>

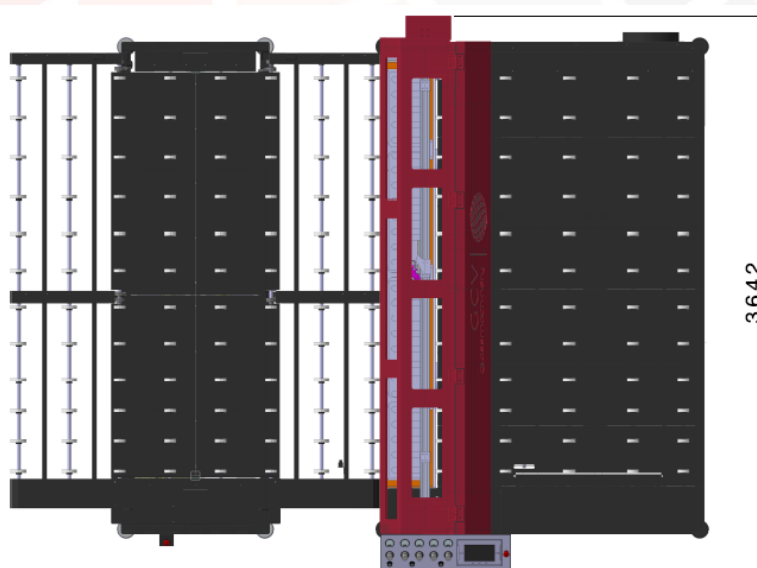


MODEL : PICASSO 180	
Max. Glass Width (mm) : 1800mm	
Max. Glass Length (mm) : unlimited	
Min. Glass Size Width x Length (mm): W 220mm * L 900mm (Single panel piece)	
Rated Power: 5,37 Kw@50Hz / 5,84Kw@60Hz	
Compressed air input (Bar): 7 (minimum), 8 (recomendad)	
Machine Weight: 1500 kg	Footprint (mm): 3900 x 2816

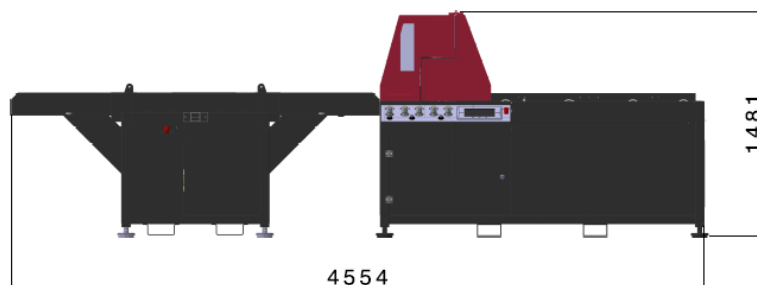




MODEL: PICASSO 260	
Maximum glass width (mm): 2600mm	
Maximum glass length (mm): unlimited	
Minimum glass size width x length (mm): W 220mm * L 900mm (Single panel size)	
Rated power: 10 Kw@50Hz / 10 Kw@60Hz	
Compressed air input (Bar): 7 (minimum), 8 (recomendad)	
Machine weight: 2200 kg	Footprint (mm): 3800x3900



Top view
Scale: 1:10



WHY PICASSO AND NOT ANY OTHER

01. PURGING CIRCUIT: SOLVENT CLEANING

You can clean the spray gun with solvent cleaner at any time even when you have painting the pump. The best way to keep the spray gun perfectly clean and ready to work always.

02. RECIRCULATING CIRCUIT: ANTI DECANTING AND ANTI BLOCKING SYSTEM.

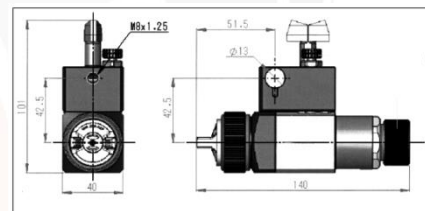
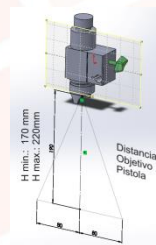
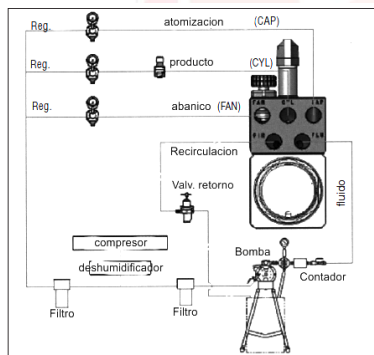
Paint is constantly recirculating inside the paint circuit, coming back to the tin if you are not painting. With this system we can purge the paint circuit getting 0 paint waste when you change the color.

03. AUTO-CLEANING SYSTEM / QUICK COLOUR CHANGE.

Our open pump system can be adapted to any paint container and any size (1L, 2.5L, 5L,..) adjusting the paint container to our production. You can refill the paint at any time during the application, not necessary to stop or change the close container like other systems.

04. EASY MAINTENANCE GUN.

Top model spray gun equipped of top spray guns manufactured, japanese company ANEST IWATA. Assemble and disassemble the spray gun will take 20 seconds.



05. APPLICATION SYSTEM:

- a. Pre-programmed parameters.
- b. Easy to Adjust.
- c. Remote Control for Application Parameters: (Product / Atomization / Fan)
 - i. [No need to open the Dome]
 - ii. [Adjustable parameters even while working]
- d. Stable Flow control. Best results and productivity.
- e. Excellent Repeatability.





06. COMFORTABLE CONTROL AND OPERATING AREA.

Designed under our own experience and test made in our glass company with a real production.

07. CARBON FILTER / FILTER EXTRACION

Not necessary to put an external extraction.

Our carbon filters will clean the air and give back

free of VOC and dust particles.

Easy to change and clean system.

08. 2 DIFFERENT SIZES AVAILABLES

- 180 cm working area

- 260 cm working area

09. EASY TO USE SOFTWARE AND ADAPTABLE TO ANY LANGUAGE

10. FULL RANGE OF MACHINERY AND RESINS FOR GLASS SINCE 1979

11. ONE COMPANY OFFERS THE WARRANTY IN MACHINERY AND PAINTS

12. POSSIBLE TO SPRAY CERAMIC ENAMEL, SELF-CLEAN TREATMENTS AND SPECIAL EFFECTS AS WELL.

13. TOTAL ELECTRICAL COMPATIBILITY _ CE/UL-US COMPATIBILITY

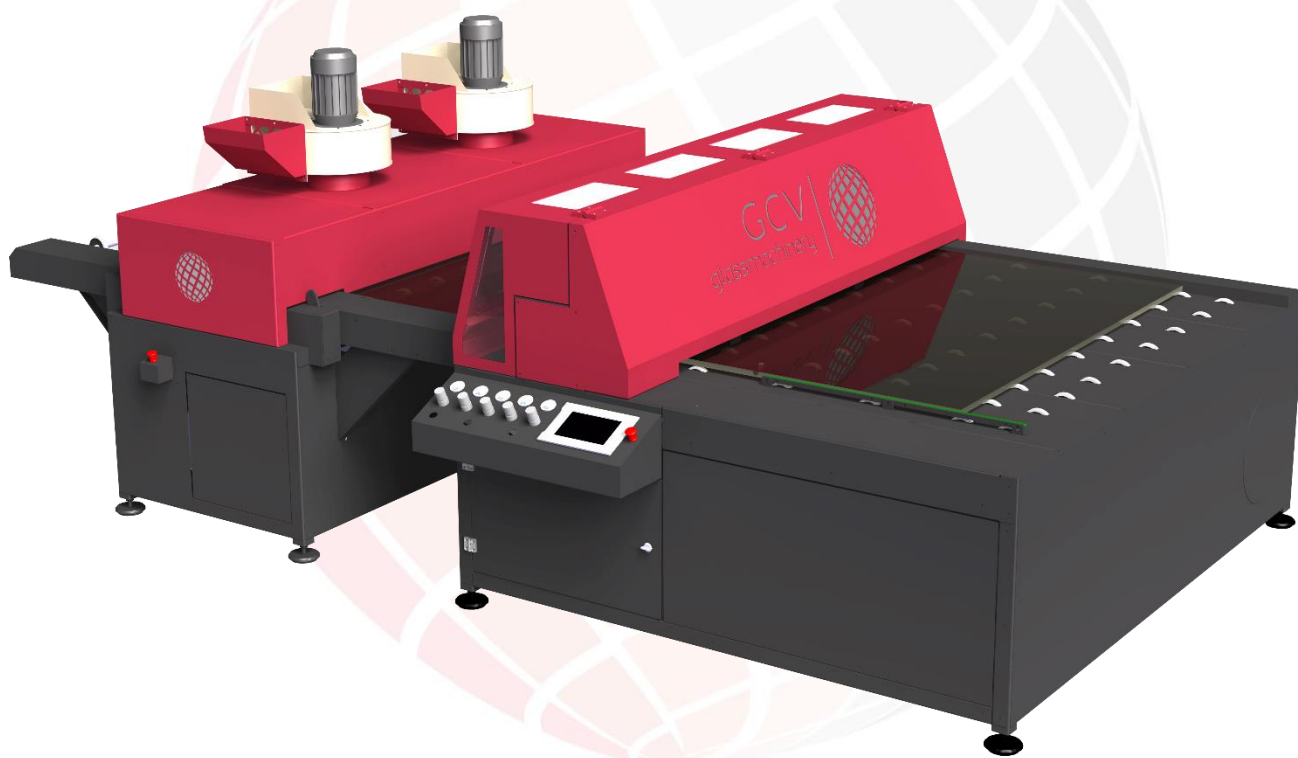


GCV |
glassmachinery



Picasso

WIDFIRE



PICASSO + INFRARED DRYING TUNNEL

PICASSO WILDFIRE

After the first dryer model of the Picasso, we learnt that we must improve the versatility of it. This update has more power (to dry ceramic enamel for example) and a precise regulation to enhance the curing of our resins.

This new complement to the Picasso machine is the most powerful drying tunnel per square meter in the market, able to dry at the same speed as much longer tunnel without all that space.

The dryer has different zones (two in the 180 model and three in the 260), which is the best way to improve the performance and save energy at the same time. If you are painting narrow glasses, it is not necessary to switch one the whole dryer, so this means less cost per square meter and bigger benefit.

The drying tunnel can be adapted to the Picasso at any time, not only when the machine is new.

Is it really necessary to install the dryer?

This question has two different answers:

- For ceramic enamel or waterborne it is a must, as it is the only way to dry them in a reasonable time (less than 24 hours).

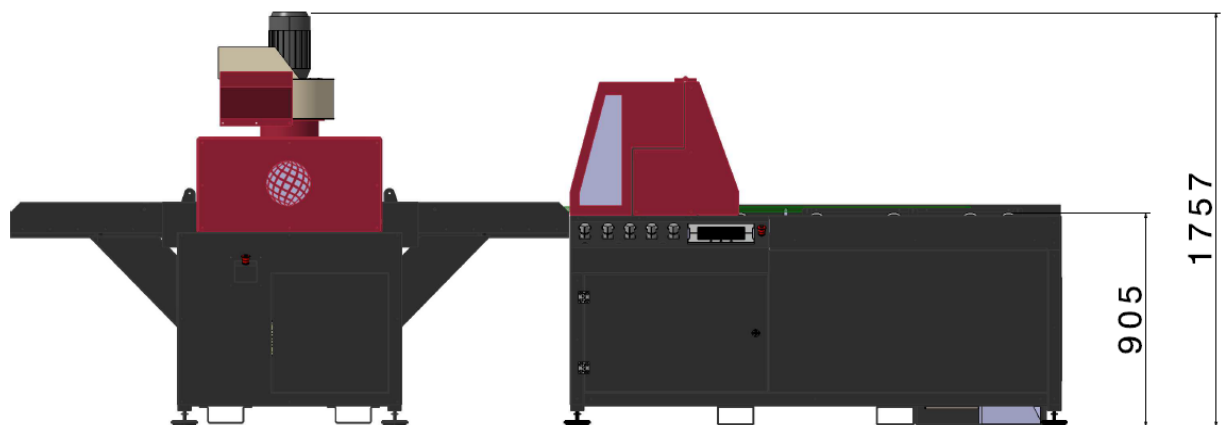
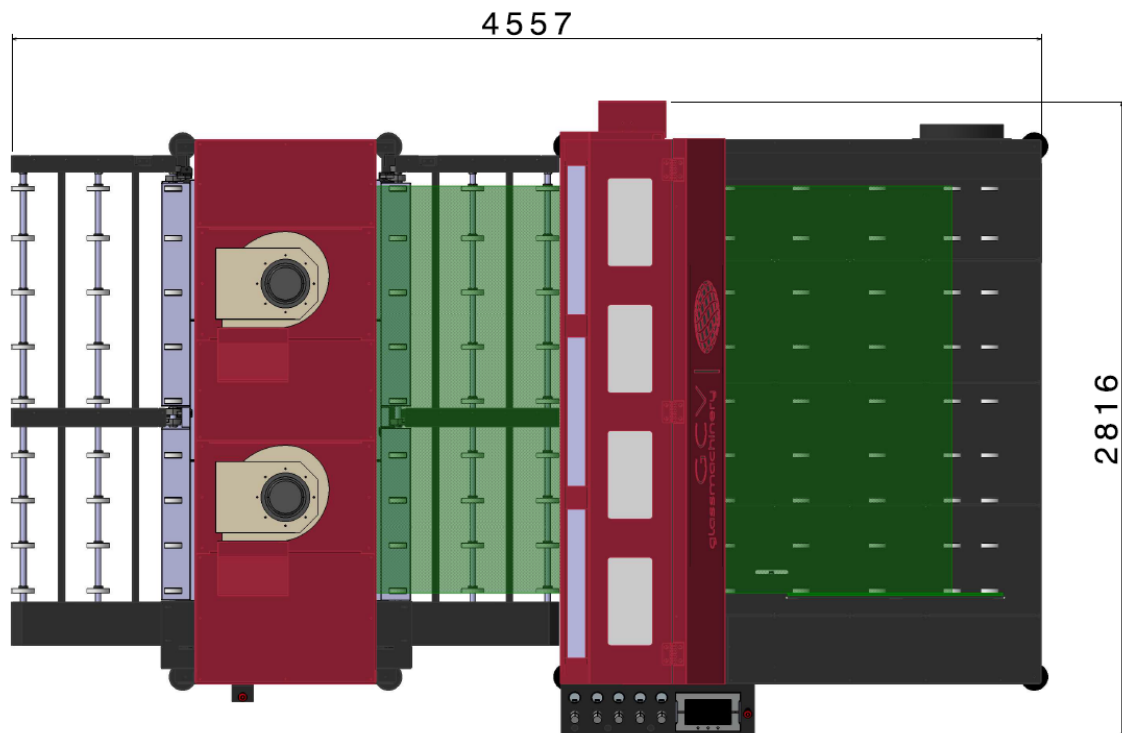
- For solvent based products it accelerates the drying process. Without any dryer in our resins, it takes a bit more than 1 hour to handle the glasses. With the dryer, in just 15 minutes you are able to touch the glasses and rack them vertically. As we will see, including the chiller this time could be reduced to just 5 minutes.

What does this mean? Including the dryer you can reduce the storage between painting and sending the glasses, saving space and time and being much lighter in the production line.

Thanks to its multiple adjustments, we can dry efficiently all kind of paints. In this way, it is possible to put our resins to 60-70°C or the ceramic enamel to 90-100°C to get a fast, precise and efficient drying.



Layout Picasso Wildfire 180:



GCV |
glassmachinery



Picasso
typhoon



PICASSO + IR DRYER + CHILLER

PICASSO TYPHOON

In this case, we add a chilling module to the Wildfire model after the dryer. This is achieved thanks to a prefiltered air flow to avoid any particle on the painted surface.

The forced convection is the simplest and most efficient option to cool down the glasses preheated in the dryer compared to air conditioning systems.

Thanks to its glass detection system, it is automatically switched on when the glass comes in and switched off when finish. This makes possible the noise reduction and better work environment.

Is the chiller really necessary?

We have two different answers to this question:

- For ceramic enamels and waterborne, it allows to cool down the glass close to the body temperature in a short time. A glass painted with ceramic enamel can reach 120°C after drying so it takes long time to be able to handle. Applying the chilling, it reduces possible skin burns and increase the safety for the operators.

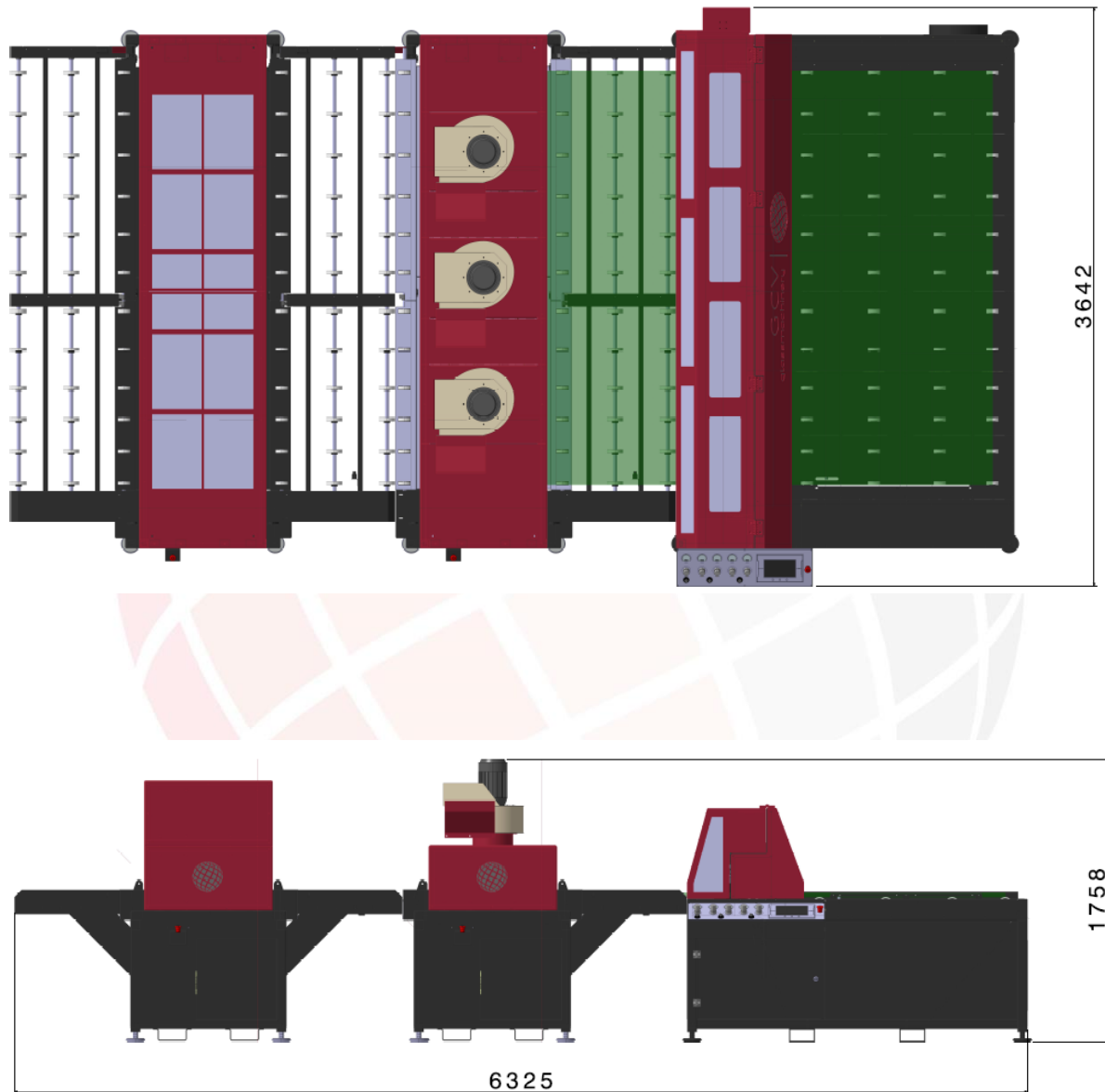
At the same time, a quick temperature contrast between hot and cold gives an extra hardness to the surface of the painted side. As soon as it gets out of the painting line, you can handle the glass with care avoiding any mark or damage in the surface.

- For solvent based paints like our resins, it strongly decreases the handling time. Also, being an aerobic resin, that air contribution accelerates the curing process in the surface. So we mix the curing with IR lamps from inside of the glass and the curing of the surface with cold air reducing the time it takes between painting and racking.

This means less production time, less glass movements and, of course, less error probabilities due to broken glasses or problems.



Layout Picasso Typhoon 260:



GCV |
glassmachinery



Picasso

FULL RIPPED



PICASSO + IR DRYER + CHILLER + BRUSHING



PICASSO FULL RIPPED

This Picasso line version means the summum of the efficiency for the glass painting. In less than 7 meters we can paint, dry, give hardness and get the best result on the uncoated side.

The brushing module can be placed after the Picasso (in case of using solvent or water based paints) and/or at the end of the line inside the cooling module (for ceramic enamel)

Its brushing rolls system is extremely easy to maintain, being able to replace just the used parts when they get damaged.

At the same time, it is possible to put it different glasses at the same time and brush them without problems thanks to the extra-grip rollers.

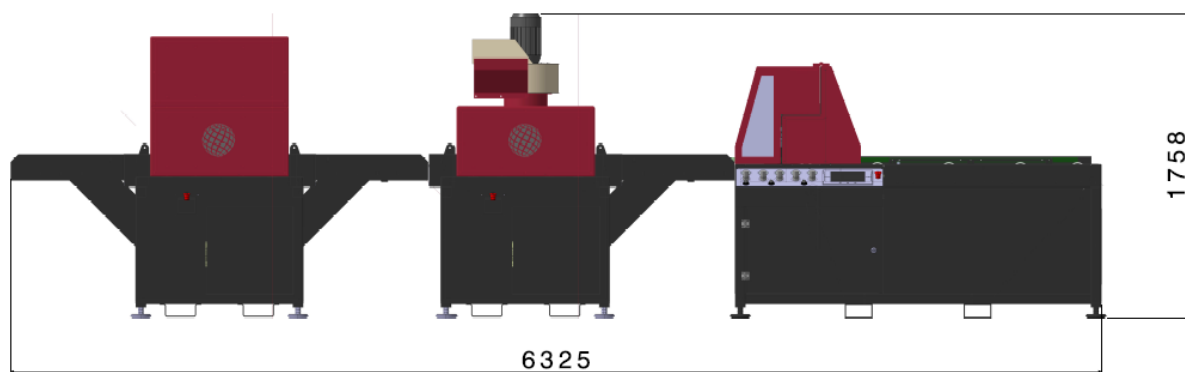
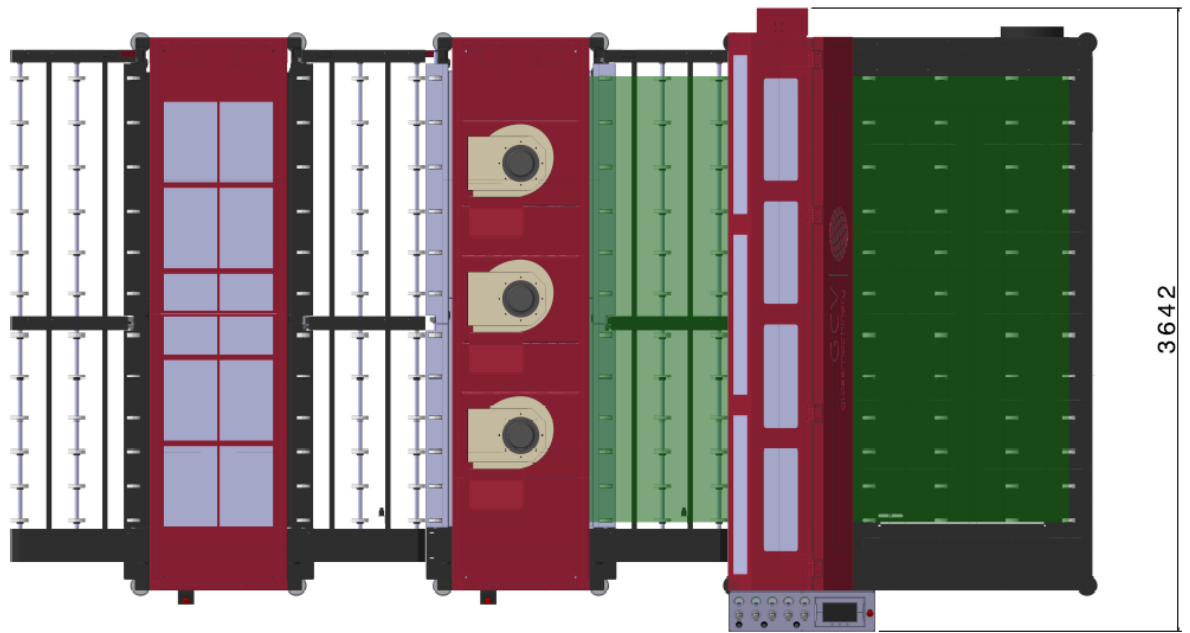
Is it necessary the brushing modules?

We see that there are two different answers:

- In a big production rate with ceramic enamel it is very interesting to avoid any small amount of dust in the other side of the glass. Thanks to that, we will extend the ceramic rollers in the tempering furnace saving a lot of many with the time.
- For waterborne or solvent based paints, it is not so important as any small amount of paint on the uncoated side will be cleaned in one of the several cleaning steps between the painting line and the final installation. However, if you are looking for the best result on both sides of the glass, this brushing module is really interesting.



Layout Picasso Full Ripped 260:





SOLVENT RECOVERY

In our large experience working with resins and paints for glass we realized some small daily expenses could get to be big expenses after some time, like solvents, so much used and wasted and yet so necessary.

Attending to our saving philosophy we decided to find a way to recycle all of our used solvents.

With our solvent recycler we just dump in our used solvent to get it back completely clean and separated from all the residues to achieve up to 98% solvent recovery.

Particularly recommended for small-medium size companies with a solvent usage up to 300 liters per month.

Recycling process takes about 2 hours per every 10 liters of used solvent.

How it works: Used solvents are poured into a special plastic bag fitted into a steel tank (inox AISI 304) and distilled through heat. Heating the solvent to the adequate temperature ensures that only the solvent goes through leaving out all other residue like grease, inks, paints, resins etc. Once evaporated the solvent condenses into a collector and the dry residues stay in the bag.



DISPENSING SYSTEMS FOR PIGMENT MIX

Creative Resins offers a complete solution for the blending of pigments for our Glasspaint resins, fitting all costumers' needs.

Thanks to our software ColourGlass by Creative Resins™ we are able to create in a very simple way more than 15,000 different standard colours from any of the main colour charts: RAL, PANTONE, NCS, DULUX, EUROTREND, BS...

Our internet hosted software is always available from any device and constantly updated with new formulas.

From a manual and budget system as it is the IN HOUSE MIXING SELF, going through our MANUAL DISPENSING CARROUSEL, more accurate and practical to the fully automatic and professional AUTOMATIC DISPENSING SYSTEM for bigger and faster pigment production.

- **Mixing Selves:** Basic, simple and handy. Just fit the dispensing lid onto a 2.5 liter can and place it on the self. An automatic mixing system will blend the pure pigments in a 10 minutes every 8 hours cycle.



- Manual Dispensing Carrousel: Precise, fast, Economical and easy to use. Counts on 24 deposits containing 2.5 liters of our 19 pure colour pigments plus 3 metallic aluminum pigments. Each deposit has a dispensing volumetric piston with a ± 0.1 gr accuracy. The Carrousel blends the pigments automatically in a 5 minutes every 4 hours cycle.
- Automatic Dispensing Carrousel: Evolution of the manual system. Operated through a computer and our own software is able to create any colour within an over 15,000 standard colour range. We just have to select the colour by reference and the desired amount and the automatic carrousel will do the rest. It also features the 5 minutes every 4 hours blending cycle.

Also features a lot more extras, like piston cleaning brushes, multi language software, deposit level indicator, optical detector for the paint tin, anti splash system...



MANUAL CARRUSEL



MIXING SELVES



AUTOMATIC CARRUSEL DISPENSER



CREATIVE RESINS GLASSPAINTS

Scope: This Certificate of Conformity confirms that the goods supplied have been tested to the following criteria, and conform to specification, agreed sample, and purchase order conditions and requirements; unless specifically otherwise stated.

Test: Test samples were produced on flat, clear glass (cleaned using an approved glass cleaner), with resin applied, and dried, at room temperature. Results relate to: Colour Change, Adhesion, and Scratch Resistance.

Test Description: Colour Change, Adhesion and Scratch Resistance

ISO 105 A02

	Colour Change	Adhesion	Scratch Resistance
60min @ 120C	Excellent	Excellent	Excellent
30min @ 150C	Excellent	Excellent	Excellent
10min @ 200C	Excellent	Excellent	Excellent
20min @ 200C	Excellent	Excellent	Excellent

UV Fastness (BS1006) Grade 8 achieved on BS1006 scale of 1-8
Weathering 1000hr Atlas
Weatherometer +

Xenon Grade achieved - Excellent

Warranty: Creative Resins Outline & Colorspray resins are intended for decorative use only, and guaranteed not to chip, delaminate, or fade more than 10% from original over a 10 year period when subjected to normal weathering conditions.

This guarantee is subject to the following conditions –

- 1) Resins & Pigments are mixed in accordance with printed instructions.**
- 2) Only approved substrates, cleaning products, and application methods to be used.**

Jose Gonzalez
Quality Assurance Manager

Issued:02/01/2014



AUTOMATIC SHAKERS

For a perfect blend of the pigments and the resins we offer two different shakers, big and small size to adapt to our clients needs.

- Small Shaker: Manual closing and clamping.
1 tin at a time capacity, from 0.5 to 3 liters.
Two programs of 3 and 5 minutes for lighter or darker colours.



- Big Shaker: Automatic closing and clamping,
pressure sensors to avoid the tin deformation.
Up to 4 tins at a time capacity, from 0.5 to 30 liters.
Four different blending programs: 1, 3, 5 or 8 minutes.

PICASSO COMPLETE CERAMIC ENAMEL STATION

Our ceramic inks combined to the Picasso machine develop better result than any other application system.



The station has a dispenser cabinet with 24 positions and automatic shaking to avoid the sedimentation of the ceramic inks. You only need to put the 2.5L tin with its own cover and it will be ready to use when you need it.

We include in the station:

- 12 primary colours for RAL making following an Excel sheet.
- 2 most used basic colours (black and white) with a high pigment concentration perfectly useful to get opacity, digital printing background painting, etc.
- Specific diluent depending on the use you have:

spray painting, roller coating or screen printing.

- Ford Cup to control the viscosity of the blend to get a perfect application.
- A wet film thickness gauge to control the amount of product you apply in the surface to optimize the enamel performance.
- A scale to make the blend correctly.