

38

Cugher Glass: research to satisfy the highest expectations



Satisfying clients' demands is not always easy but, in this article, Cugher Glass shows us how it had done it thanks to a "wish list".

As a manufacturer of silk screen printers, Cugher has developed a series of machines that are the result of an engineering study concluded in 2007, which include considerable technological innovations.

“We have taken part in the growth of a sector, now our commitment is to be the leaders in its development. In order to achieve this aim, a period of field work and advanced research targeted at realizing a new generation of screen printing machines meeting the highest market's requirements has been necessary.”

Thus, during the year 2007, Cugher Glass contacted its major customers, belonging to automotive, architectural, home appliances fields, and asked them to make a “wish list” of features that they would like to have on their own machine.

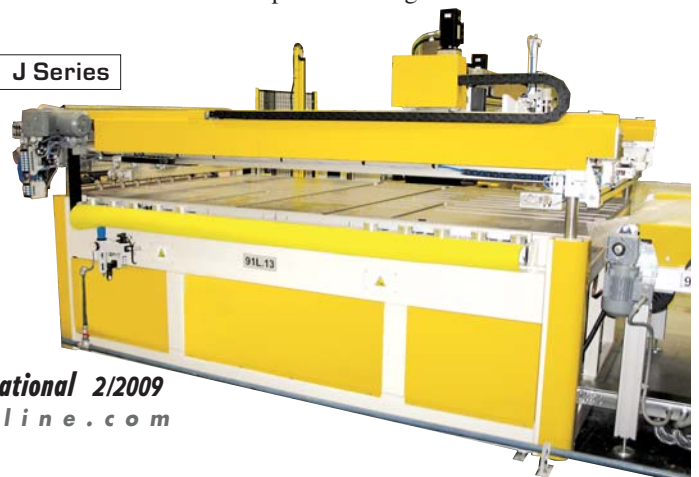
Based on the suggested desiderata and thanks to the experience of over 40 years of activity, Cugher Glass's engineering department has developed two brand new printers lines, sturdy, precise, fast, easy to use and flexible, able to adapt to different needs and sizes: the Series G and the Series J.

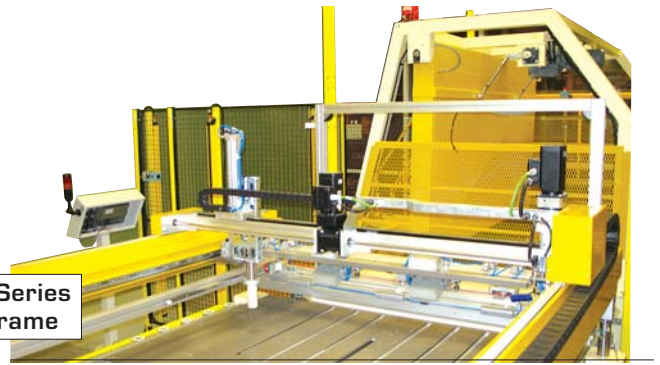
The concepts that are behind these new silk

screen printing machines are totally innovative and are based on the application of the completely updated technology.

Competitors often carry out a simple “make-up” of their lines; Cugher Glass, on the other hand, has created a new generation of Silk Screen Printing Machines which combine technological innovations with well-known features of reliability and solidity: more than 600 clients all over the world, the most important industrial groups in the glass market, are the proof: Our machines are still up and running since 1980.

J Series





J Series
frame

THE FEATURES OF A SUCCESS: FLEXIBILITY, MAXIMUM PRECISION, RELIABILITY, EASE OF USE

The Series G is actually available in different models, able to handle glasses sizes starting from 700 x 1,000 up to 1,300 x 2,000.

The same new technology has been applied to the new Series J, a brand new printer line expressly studied to handle "big" glass sizes. In fact, the new Series J is available in several models able to process glasses size of 1,300 x 2,000 up to 2,500 x 6,000.

These machines, of the newest generation, have some exclusive characteristic that make them unique:

Series G and J: the reason for a leadership

- Complete production changeover in less than 15 minutes thanks to a exclusive project of the screen holder and a particular process automation. The machine can automatically adjust the settings points of the new glass (dimensions, thickness...) and the auto centring of the new glasses. These special capacities enable the client to be more productive even in case of a production of short series with different glass formats;
- All the controls of the machine take place on a control touch panel positioned at the operator side, it is therefore no longer necessary to cross the printing line to adjust some "settings" of the machine;
- Wide range of printing sizes for maximum flexibility;
- Easy removal of the frame for cleaning operations, without losing registration and allowing a considerable saving of time;
- A milestone in silk screen printing speed;
- Incomparable printing accuracy and quality;
- Fully automatic, equipped with a recipes programme. The machine can make the printing adjustments automatically on the basis of recipes that can be memorized;
- Constant squeegee bar pressure, automatically managed;
- Automatic centring system able to auto centre on the middle line of the glass, with auto-compensation of glass cutting errors;
- Pre-alignment of glasses outside the printing table;
- Edge to Edge system.

Moreover, Cugher Glass develops and sup-

plies solutions based on the highest market standards and can satisfy any specific production requirement.

39

AN ONGOING INNOVATION: THE LOGO PRINT HEAD

Faithful to company policy, the engineering department of Cugher Glass has recently developed an innovative and exclusive Logo Print Head System. This device can be easily installed on a conveyor, as a option on new silk screen printing machines or as a fully automatic independent solution.

The logo-print head is positioned on the printing area manually, the printing cycle is automatic and startup is given by the presence of the glass, while all the necessary adjustments for the register X, Y, the rotation (Z axis) and the micrometric adjustments for the squeegee bar pressure are available on the printing head.

Movement, as well as lifting and lowering of the printing head, is carried out by pneumatic cylinders. Moreover, it is possible to adjust printing speed and return independently. Printing head move to print/flood stroke is by means of cylinder.

A special device lifts the logo print head to allow the glass transfer after the printing cycle, while for cleaning procedures, a dedicated cylinder lifts the logo print head to enable easy access to the screen.

The logo print head is supplied with its own PLC and software that is able to handle and control all features and operative capabilities, and centring devices and/or stop pins for glass registration in the printing area can be supplied on request.

Moreover, it is possible to automate the positioning of the logo printing head along the axes X and Y.

Maximum screen holder dimensionare 250 x 250 millimetres; screen holder thickness range: 10 ÷ 25 millimetres; standard logo dimension: 60 x 60 millimetres. ■



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