



CUGHER

Plants and machinery customer oriented

Discover
the **CUGHER METHOD**



News from Cugher's world

Industrial ROBOTS:
How to increase your
efficiency

JOURNAL



A LONG

ENGINEERING EXCELLENCE AND INNOVATION ARE EMBEDDED IN THE COMPANY'S DNA

For more than 50 years



Cugher has specialised in the **study, design and production of systems and machinery for flat glass.**

Since its foundation, Cugher has dedicated resources and energies in studying the flat glass screen printing process, and over the years it has acquired the necessary knowledge to design and produce **complex, fully automatic and synchronized screen-printing lines**, ensuring a fast, precise, and repeatable result.

The company was among the first to automate the screen-printing process on glass, and its cutting-edge approach which involves commitment to understanding our clients' needs, has guided every Cugher project for years, leading it to become an international forerunner as a producer of **highly customised glass technology** in various manufacturing industries.

World-class player of excellence



- Reliable solutions
- Shared expertise
- Performance and quality of product and service
- Innovation and customisation

1967

Cugher Foundation

Screen printing Technology

2000

Focus On flat glass

New Business Strategy

2005

Automotive Core business

Industrial automated plants international presence

2012

Albamachinery foundation

Production site

2021

Global Recognized presence

Customized solution R&D and Innovation



HISTORY OF VALUE

CONSTANTLY LOOKING TOWARDS THE FUTURE

SPECIALISED CONSULTING

Constant **investment in research and development** and a **flexible engineering approach** allows Cugher to offer high-performance solutions, always in line with the market's demands.

Thanks to its collaboration with major glass manufacturers, the company continuously builds on its capacity to accommodate all production needs, often anticipating them.

The development of **reliable solutions** and **future-oriented performance standards** are the driving force for the continuous improvement of Cugher solutions.

There is no such thing as a standard solution for Cugher. Each project requires its own analysis of the unique specifications and **complete attention of the technical and sales team** to fully satisfy each client's production needs. Each stage of the project is carefully monitored and requires a continuous exchange of information between the Cugher design team and the client with the aim of developing integrated, automated, and efficient solutions.

Cugher is not a simple supplier of machinery and systems, but rather a long-term partner and **reliable consultant**, right from the initial analysis of the various problems through to the development of alternative and customised solutions, providing constant support on the production line to ensure superior performance, always.

- Research & Development
- Flexible engineering
- Reliability
- High performance
- Listening to the client
- Extra-customisation



- Printing machines
- Dryers
- Handling
- Vision systems
- Complete screen printing lines



SPECIFIC SOLUTION FOR EVERY

Screen printing lines for automotive glass manufacturers has always been the company's **core business**. Cugher's experience enables the development of solutions that guarantee the management of **large production batches** for both **tempered and laminated glass**, ensuring:



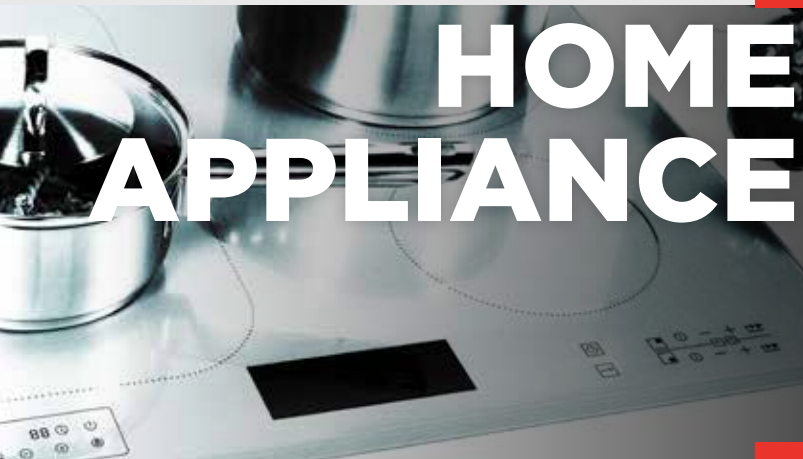
AUTO MOTIVE



High performance solutions for an industry where **fast processing** is essential: screen printing on stiff surfaces and flat glass for home appliances (such as hobs and ovens), flat screens and special applications.



HOME APPLIANCE



Backed by the experience and knowledge of experts at **Architectural LAB**, a genuine centre of research in the building and interior design industry, Cugher provides **tailor-made** solutions for screen printing and handling of **float, tempered and laminated glass**, with civil and industrial applications ranging from windows and balconies to furniture accessories and shower enclosures, **reaching formats up to 3x6 m**.



BUILDING & INTERIOR DESIGN



SOLAR

Engineering and production of machinery for solar panel handling in production lines, and for the screen printing of special substances on the conductive backsheet to **reduce the dispersion** of solar energy and **increase the efficiency** of the panel, guaranteeing:



S INDUSTRY



HIGH PRODUCTIVITY

EXCELLENT IMAGE DEFINITION

PRINT REPEATABILITY +/- 0.08 MM

**FAST AND EASY MACHINE TOOLING
AND FORMAT CHANGES**

Fast and simple format changes are guaranteed by a self-learning system that memorises formats, allowing all operations to be carried out by a single operator, on both small and large surfaces.

Each type of glass

needs to be managed according to specific solutions, and the parameters change depending on the production needs of each partner and industry. This means that **no two Cugher systems or machines are the same, thus guaranteeing the best results.** The company's high potential for customisation is demonstrated in both the mechanical and electrical hardware and software.



**CONSISTENT THICKNESS OF THE
DEPOSITED INK +/- 5-10% DEPENDING
ON THE FRAME USED**

98% GOOD PIECES GUARANTEED

SYSTEM ACTIVE 7/7



THE RIGHT MACHINE ALL NEEDED

SCREEN PRINTING MACHINES



Cugher screen printing machines ensure the **best print repeatability** and **consistency of ink deposits** available in the market thanks to sophisticated and consolidated technical solutions.

IR, UV OR COMBINED

Featuring specific characteristics and flexibility for **drying both silkscreen and digital printing** on glass. Through an air exchange system, Cugher dryers can in fact thoroughly **dry ink up to a thickness of 100 microns**.

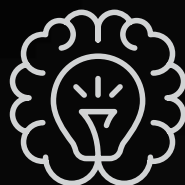
DRYERS



THE CUGHER



Identification of
specifications

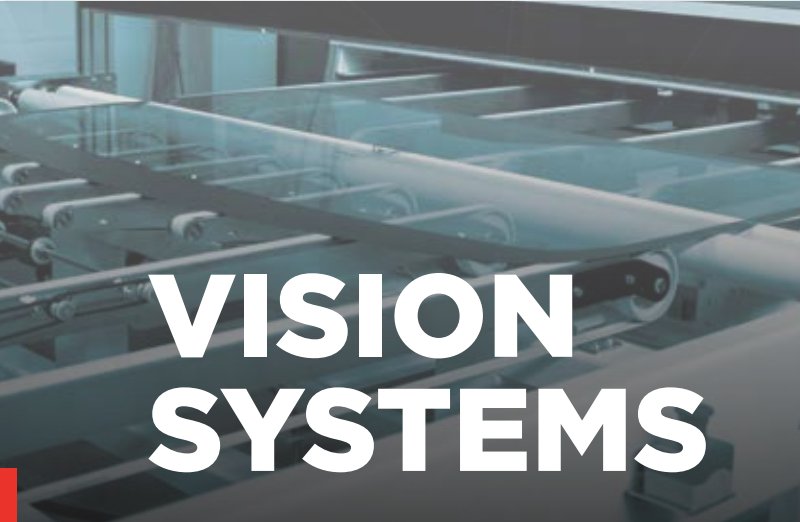


Exchange of
knowledge



Development
of layout

FOR OS



VISION SYSTEMS

GLASS QUALITY CONTROL

These allow the most efficient **quality control** of the **glass and printing** in every detail, guaranteeing a resolution from 60 to 122 microns depending on the size of the glass. This family also includes a **broken screen detection**, which detects any contaminations due to frame breakages starting from 1 mm in diameter on the bottom surface of the printing support, thus protecting the upstream machines.

ALIGNMENT SYSTEMS

These allow **automatic adjustment of the frame**, to which robot-guide applications typically found in highly automated handling lines are added.

Cugher designs, engineers, builds, and automates systems dedicated to the transport and storage of glass in any shape or size, guaranteeing **excellent integration and synchronisation** with all components of the line. Thanks to a **flexible design**, all the most complex situations can be managed with belt conveyors, roller units and/or combined roller-belt systems, in addition to overhead pick-and-place systems.

Cugher's machines or system guarantees:

- Efficiency and durability over time
- Ease of use and minimum maintenance
- Industry 4.0: compatibility with the client's IT system
- Specialised after-sales assistance.



HANDLING

METHOD



**Examination
and changes**



**Final
solution**

To assess Cugher's skills, simply request a free, no-obligation **SPECIALISED CONSULTATION**.

Following an analysis of the technical requirements, the most beneficial solution in terms of **production and cost** will be prepared for the client.

INDUSTRIAL ROBOTS

CUGHER'S SPECIALIZATION IN INDUSTRIAL AUTOMATION HAS LED TO THE DEVELOPMENT OF TURNKEY SOLUTIONS AND/OR THE INTEGRATION OF AUTOMATED ROBOTIC SOLUTIONS TO INCREASE EFFICIENCY AND REDUCE PROCESS COSTS FOR EACH PLANT.

Turnkey solutions

Cugher implements two families of solutions in its projects:

ROBOTIC ISLANDS FOR MATERIAL HANDLING

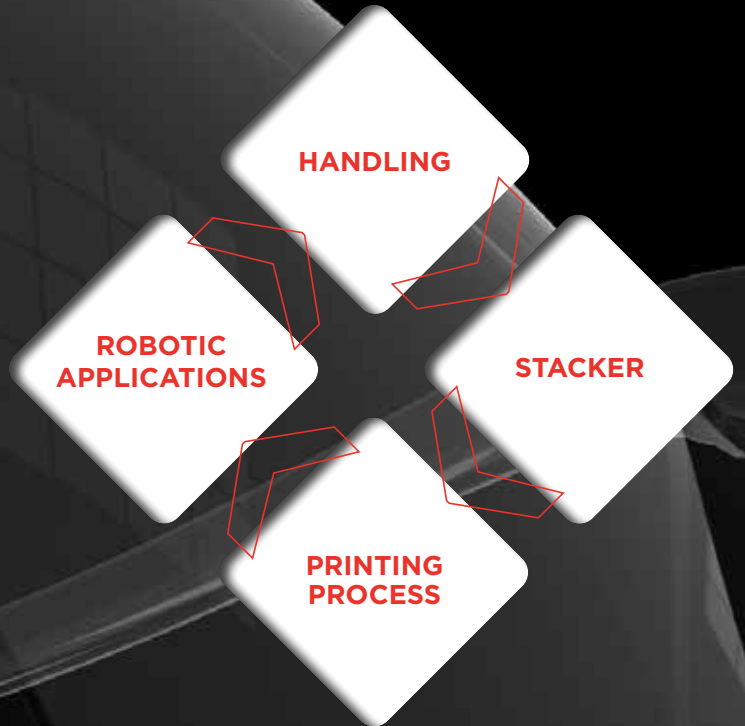
Set of machines organized within an automatic workspace, including robot manipulators controlled automatically for loading/unloading and palletizing, ensuring the continuity of operations. Productivity significantly increases through robotic islands, and each island can be quickly reconfigured if the company needs to change the type of processing.

ROBOTIC SYSTEM COMBINED WITH VISION SYSTEMS

The robot collaborates with the vision system, which sends real-time information to make different adjustments each time and ensure a consistent quality standard. This combination is effective when automatic handling is not always precise, while processing requires extremely accurate positioning.



CUGHER FOR SUN POWER



Cugher is more than just a machine supplier; it's a partner that delivers tailor-made solutions.

Precision Meets **INNOVATION**

Cugher's expertise integrates advanced technology, durability, and customization options to address the evolving needs of the solar industry, enabling manufacturers to provide high-efficiency solutions. Cugher meets these demands through a range of solutions specifically tailored from extensive experience with various glassmakers. Its array of products supports the development of **complex and automated production lines or standalone machinery perfectly integrated.**



HELP DESK SERVICE

Cugher knows well that a project doesn't end when machines commissioning takes place, in fact the **continuous assistance** has a crucial role to reach **customer's satisfaction** and to maintain **long- lasting relationship**, the most important goals of the company.

This consciousness and the decades of experience in engineering and production have been the reason to build the **Help Desk Service**, a dedicated department focused on the assistance of Cugher's plants and machinery over time.

ALWAYS THERE WITH HELP DESK

Fast and punctual support

- Team dedicato di esperti
- Sistema di ticketing per tracciare tutte le richieste
- Linea diretta dal lunedì al sabato, 7.00 - 24.0
- Assistenza in loco se necessaria
- Contratti service ad hoc per ogni necessità

Cugher's after-sales support service is designed to ensure continuous presence of experts and **timely specialized interventions** in case of any unforeseen circumstances. Cugher is aware that attending to the customer's needs throughout the machine's durability is the key to a lasting trust relationship.



PROFESSIONAL
TEAM
of experts



DEDICATED HELP LINE
from Monday to Saturday,
from 7.00 to 24.00

Yes, we help!

You Relax. We Take Care
Help Desk Service



www.cugher.com


We'll fix it fast

**Contact the
Help Desk Service!**

helpdesk@cugher.com



ASSISTANCE
ON-SITE
if needed



TICKETING SYSTEM
to collect requests



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We believe that
**TOGETHER WE CAN DO THE
DIFFERENCE FOR THE ENVIRONMENT!**