

Glass & Plastic Decoration Systems.

Growing ideas, growing results.

FERMAC

Reinvent. Always.

280+

Customers around the world

55

Countries

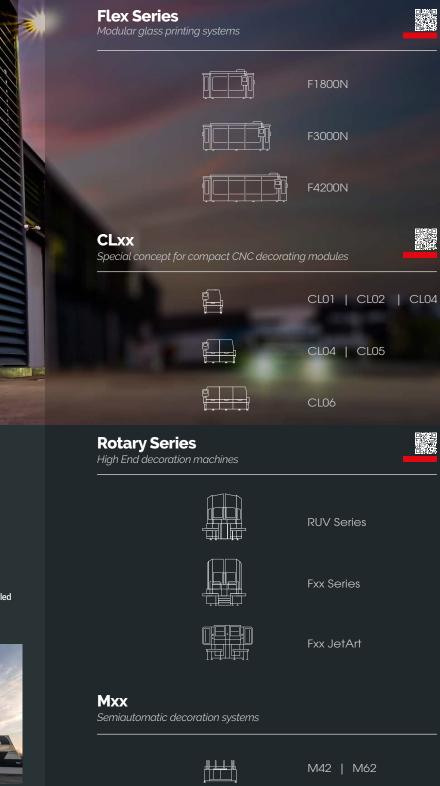
Fermac dedicated to glass container decoration for 30 years innovation, high quality mechanics, performance in automation, after sales assistance

FERMAC founded in 1993, designs, manufactures and installs decoration equipment for glass, plastic and ceramic containers with the following process: screen printing, inkjet printing and hot foil stamping on a wide range of packaging. The ideas, ethics and high care for the customer's service have brought the company in the leading position on the market.



Glass & Plastic Decoration Systems.

Available in thermoplastic, UV, UV Led, digital and hybrid technology



1000+

Systems installed



FLEX Reinvent. Always



The new Flex line has been developed to answer customer need for high flexibility and versatility machines. This platform enables our customers to penetrate new markets thanks to the ability of perform short-run and complex printing. Thanks to the CMYK unique capabilities it is also possible to find new interesting niches and unexplored commercial opportunities. The Flex range comes from more than 30 years of experience in the field of glass decoration systems.





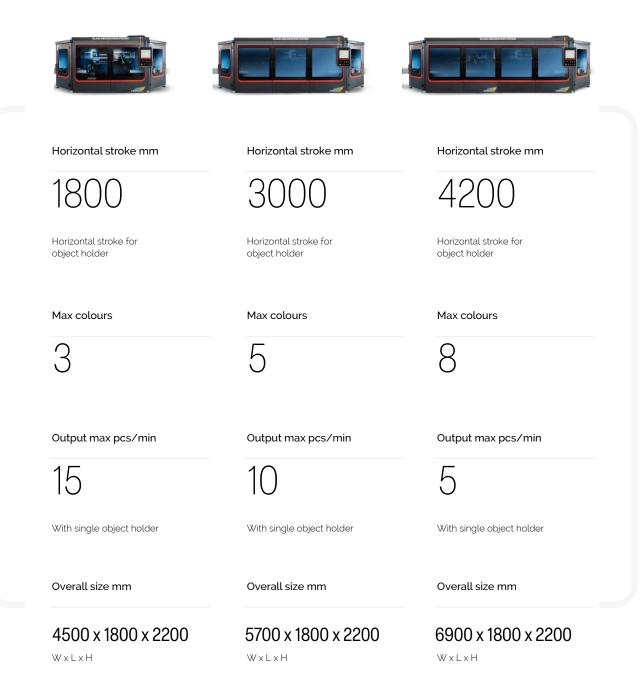






MODULAR TECHNOLOGY FOR FUTURE PROOF SYSTEMS.

This range has been desgined on a linear concept. Our users are free to shape their own decoration system based on their specific needs. This is made possible thanks to a modular approach, that not only permits great configuration possibilities, but also to upgrade the machine with future improvements.





Three chassis are available in order to host different working station or options. Depending on any specific production need you can chose from 1800 up to 4200 mm of horizontal stroke of object holder carriage. See all the modules and options above

FERMAC MODULAR CONCEPT



BECOME A DIGITAL COMPACTION OF A DIGITAL NINJA

Entering the world of CMYK printing on glass (*and other materials*) is the gateway to enter new markets. Radically new printing services, even short-run or test productions, can be carried out in just minutes and complements more traditional decoration process that can be performed, depending on the choosen configuration, by a FLEX machine itself. The R.I.P. *Raster Image Processor*, features data driven workflows in order to print variable data for and unlimited range of printing works.

Shades of colour



Thanks to CMYK it is possible to print all colour shades of a 24bit RGB image

PHOTO QUALITY

CMYK printing allows perfect reproduction of continuous tone photographic images

DPI



High resolution for ideal image rendition

...PLUS WHITE

White, as additional under colour printing, permits grat flexibility both for creative and technical purposes

Variable data



Customized list of data for creating unique pieces

3D EMBOSSING

A 3D embossing effect is achievable by overlapping top coat varnish layers Fermac Glass & Plastic Decoration Systems



CLXX Reinvent Always

Matrix or linear camera for angular positioning or quality control Module with double station



The CL lines has been developped to offer some very performant decorating module on a linear concept where the customer is free to create his customized printing center.





Servo driven with tilting device for any process

CL : Modular line for shape items







MODULAR TECHNOLOGY FOR FUTURE PROOF SYSTEMS.

This range offers the possibility to combine different module according to the needs. The aim is to optimize the size of the equipment and the tooling in order to achieve the best ratio: *cost-space-change over*.



FERMAC MODULAR CONCEPT

MODULAR CHASSIS SYSTEM



Up to 2 colour with ceramic or 1 x UV colour, very high accuracy in colour registration



in 1 colour ceramic and 20 p/min with 2 colours ceramic or 1 x UV colour





2 colour ceramic and 1 x UV colour

Output up to pcs min

in 2 colour ceramic or 1 x UV colour.





2 colour ceramic and 1 x UV colour. Same specification as CL02 but with additional station for camera for angular positioning



in 2 colour ceramic or 1 x UV colour.



4 x working stations for 4 x colours ceramic or 2 x UV inks







Same specification as CL04 but with additional station for camera for angular positioning



in 2 colour ceramic or 1 x UV colour.



CL06



Same as CL05 with additional station for quality control.



in 2 colour ceramic or 1 x UV colour

There are different module type from CL01 with single object holder up to CL06 with 6 x object holder. Various combination are possible according to your needs.



UP TO 70 PCS/MIN WITH DC2 super fast printing machine for nail polish bottles



Double object holder for small items using thermoplastic ceramic process





This machine is CNC driven which means able to print any developpable shape item and can be converted in single production when 2 x ceramic or 1 X UV colour are needed. DOUBLE OBJECT HOLDER MECHANICAL ANGULAR REGISTRATION Item dimension

 40_{mm}

Maximum diameter 40 mm

Item Height



Maximum height for the item

Maximum output



35 p/min single production and 70 p/min 2 colours

SINGLE COLOUR PRINTING FOR SMALL BOTTLES

Reinvent. Always

Linear camera for quality control can be installed on the last station before unloading

Our rotary base version are available from 6 up to 22 stations in MOTION or CNC concept According to the needs, we can define the configuration in order to host: decorating or UV curing stations FERM

FERMAC can study any integration on existing line to design the outfeed conveyor and realize push bar and stacker for loading the lehr or connect to paletizing





Matrix camera or linear camera for angular positionign can be installed on the loading station

Loading system with different stepping unit:

- Star wheel, leadless screw or oval conveyor with jig.
- Special pre treatment can be integrated while printing with UV inks.

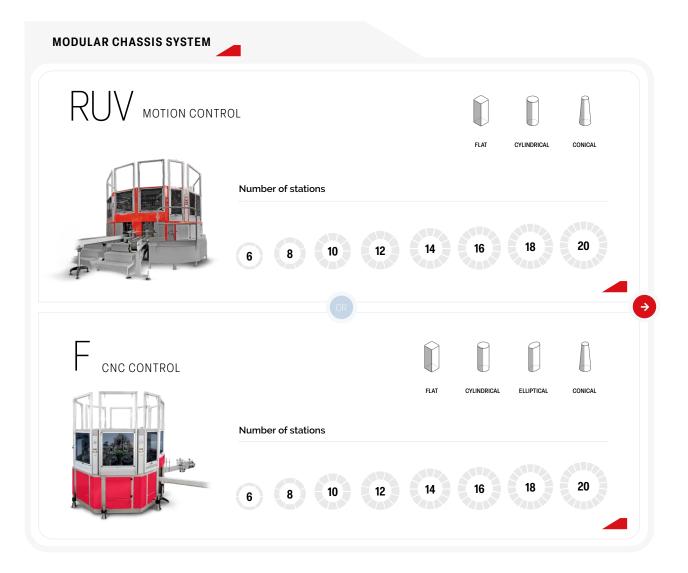






MODULAR TECHNOLOGY FOR FUTURE PROOF SYSTEMS.

On all our rotary base machine, we have a servo driven indexing system with very high speed and extreme accuracy on stopping phase. According to the type of item: cylindrical or shaped, we can choose a Motion or CNC servo driven concept to move the item.

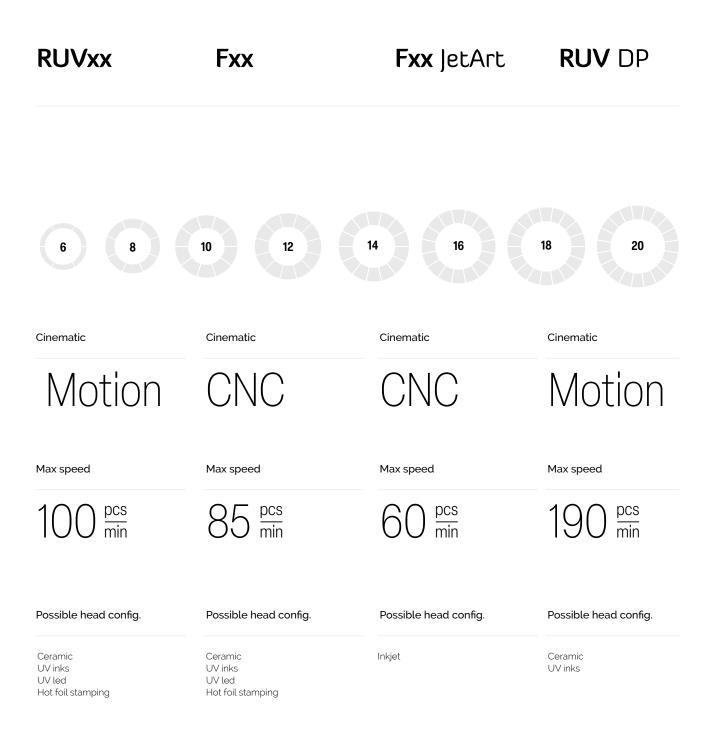




FERMAC MODULAR CONCEPT On RUV (*Motion system*), the item is fixed on the rotary disk and is moving only horizotal. On FXX (*CNC servo driven system*), the item is moving up and down as well. Squeegee has an horizontal movement for the follow up of shaped profile.

TECHNICAL DATA







On both version, we can install on the loading conveyor the special pre treatment with *pyrosil* and double half ring burner

THE NEW GENERATION FXXS SERIES

FLEXIBILITY +ACCURACY Based on "FXX" roots, this is a new generation machine, specifically developed for the decoration on cosmetics and perfume containers (*either glass or plastic*); with a new loading/unloading system, a deep reorganization of all the mechanical parts to improve the access and for a faster and user-friendlier changeover.

FXXS machines are built platform-free to keep the machine on a safe work level.

Available for ceramic colours, UV lamp or UV LED and configurable with a wide range of accessories such as: Robots for Positioning; Pretreatment System with Pyrosil (for UV lamp/led); Flaming Module on board; Antistatic Treatment module onboard (for plastic items); Cameras for Registration on bottom & body; Camera for Quality Inspection; Hot-Foil Stamping module onboard & in line (all the accessories are available as upgrade also later). Maximum production speed





FXXJETART LINE

Platform is the ideal model to receive the inkjet process because of the vertical movement of the item which can optimize the distance between object surface and nozzle plate from the printhead.









UVTREAT special pre treatment with pyrosil applied by double half ring burner.



All options are available: matrix or linear camera, quality control with linear camera.

3D Embossing Effect [Optional]

It is possible to combine UV screen printing station in addition to the digital process on versions F16, F18 or F20 or add several Topcoat printhead to realize 3D embossing effect

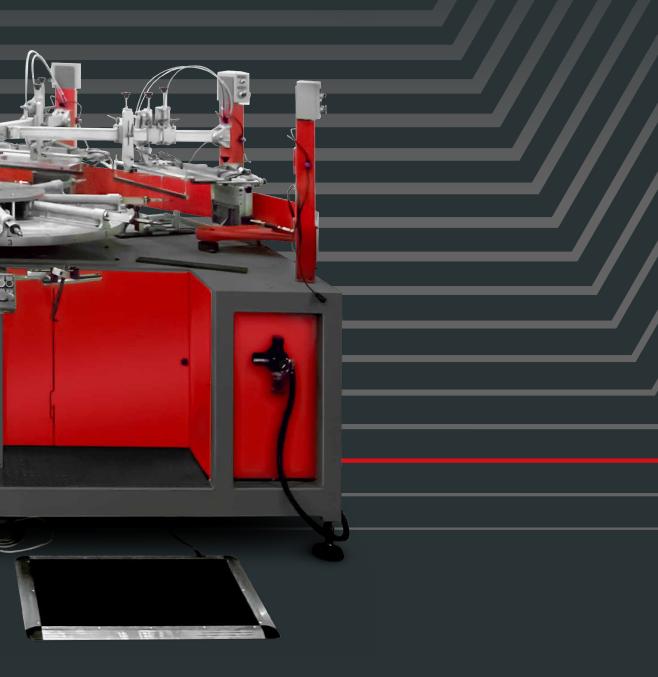
Semiautomatic

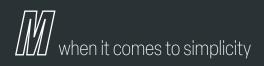




The M lines have been developped to offer a reliable thus very easy to use platform for small decoration companies, or to complement existing decoration systems with an efficient semiautomatic solution.









SEMI-AUTOMATIC 4 COLOUR MACHINE MA2 SERIES

Semi-automatic machine for decorating glasses and bottle (only on body) with up to 4 colours and with a maximum production speed of 55 psc/min.

Maximum production speed





The M42 machine was conceived to satisfy the needs of small decorating compnies that require versatility and ease of use- The machine is simple and immediately allows to reasch a good level of quality. The M42 is equipped with the same devices used in the bigger machines, appreiated for accuracy and reliability.

Weight



Ware diameter for 360° printing (min/max)





Maximum

ware height

Consumption

Total Connected Load Compressed air consumption (at 6 bar pressure) Vacuum suction (400-500 mm Hg) 10 KW 13 Nmc/h 15 m³/h



SEMI-AUTOMATIC 6 COLOUR MACHINE M62 SERIES

Semi-automatic machine for decorating glasses and bottle (only on body) with up to 6 colours and with a maximum production speed of 55 psc/min.



The M62 machine was conceived to satisfy the needs of small decorating compnies that require versatility and ease of use- The machine is simple and immediately allows to reasch a good level of quality. The M62 is equipped with the same devices used in the bigger machines, appreiated for accuracy and reliability.

Ware diameter for 360° printing (min/max)







Consumption

Total Connected Load Compressed air consumption (at 6 bar pressure) Vacuum suction (400-500 mm Hg) Maximum production speed



Available versions

M62/4

4 colours manual (2 operators for loading/unloading)

M62/4 SA

4 colours manual (1 operator for loading/unloading)

M62/6

6 colours manual (2 operators for loading/unloading)

M62/6 SA

Weight

12 KW

15 Nmc/h

15 m³/h

3200

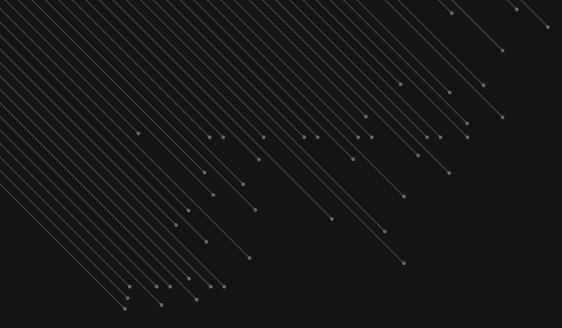
6 colours manual (1 operator for loading/unloading)

Kg





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