

COMBIFLEX

COMBINATION & FLEXIBILITY



www.forvet.it

SEE IN US,
THE FUTURE

THE BLUE  SOLUTION

FORVET

COMBIFLEX has been designed to be self sufficient in all process execution.
From loading the raw glass to the unload of the completely processed glass, there are no requirements for operator to assist the process or to adjust the machine, even at thickness, shape, dimensions or process change.

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**INGOMBRO A TERRA SOLO 32 mq.
FOOTPRINT 32 sqm ONLY**



6 macchine in UNA / 6 machines in one

COMBIFLEX

COMBINATION & FLEXIBILITY

- ✓ Automatic loading
- ✓ CHIARA grinding - polishing
- ✓ FRANCESCA drilling - milling - water jet
- ✓ CNC working centre
- ✓ Washing machine
- ✓ Automatic unloading

- ✓ Carico automatico
- ✓ CHIARA molatura e lucidatura
- ✓ FRANCESCA foratura, fresatura, water jet
- ✓ Centro di Lavoro CNC
- ✓ Lavatrice
- ✓ Scarico automatico

**AUTOMATIC LOADING FROM RACKS - GRINDING - POLISHING
DRILLING - NOTCHING - WATER JET - CNC WORKING CENTRE
WASHING - DRYING - AUTOMATIC UNLOADING ON RACKS**

L'unica macchina in grado di coprire molteplici settori di mercato e di soddisfare qualsiasi esigenza produttiva.

The only equipment able to cover multiple market sectors and to satisfy any production volume.

STRUCTURAL/STRUCTURAL



SHOWER DOORS/SHOWER DOORS



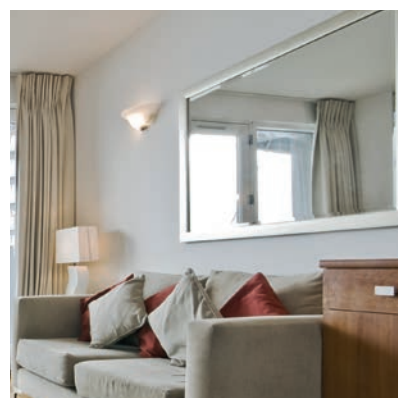
FURNITURE/FURNITURE



ARCHITECTURAL/ARCHITECTURAL



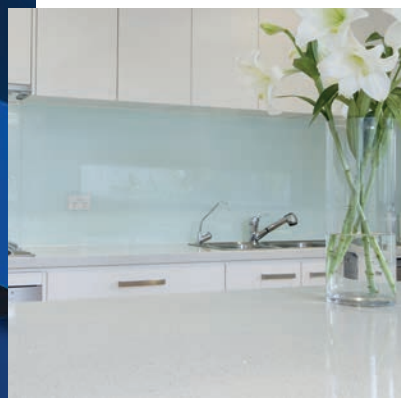
MIRRORS/MIRRORS



FACADES/FACADES



SPLASH BACK/SPLASH BACK



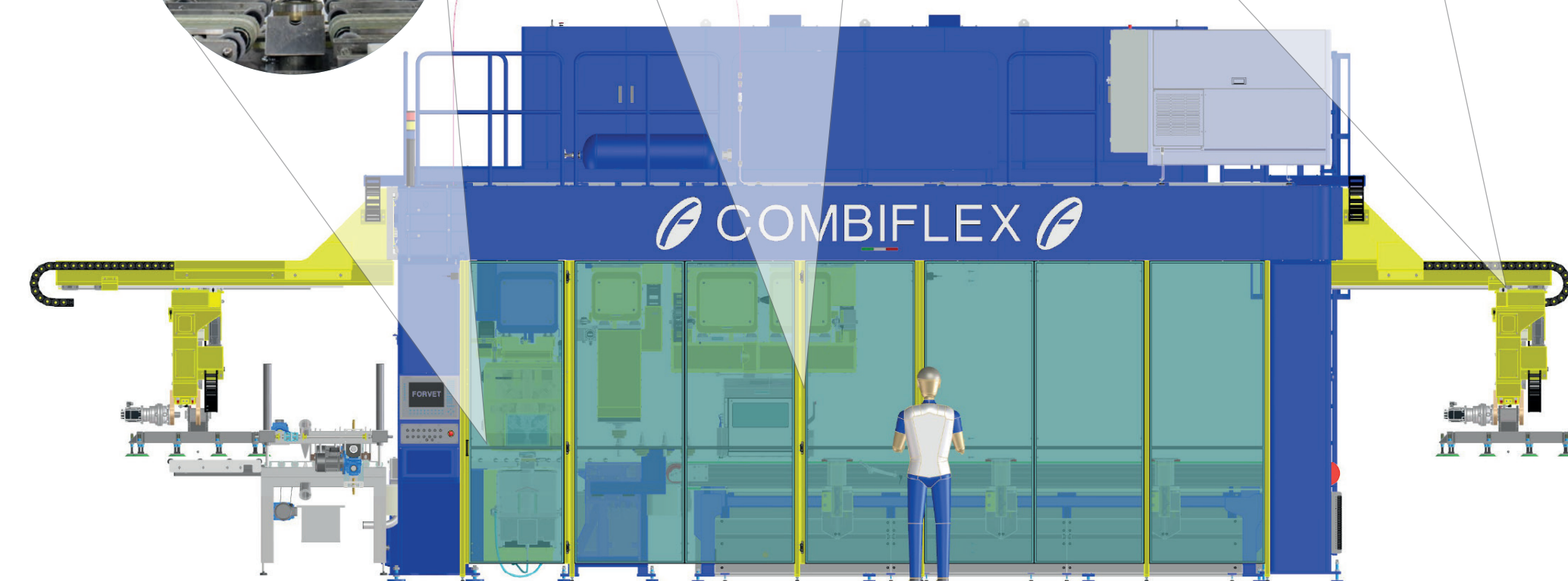
PARTITION WALLS/PARTITION WALLS



**WORLDWIDE
PATENT
PENDING**

GRINDING COMBINED SYSTEM GRINDING COMBINED SYSTEM

On the glasses over 2,5m lenght, the heads and the glass move in interpolation with opposite direction !!!
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AUTOMATIC LOADING FROM RACKS

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"FREE SPACE" loading system

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The automatic loader controlling 4 axes is directly assembled on the machine main frame. It is able to load the glasses from a standard vertical rack directly on the grinding area, making the loading conveyor not needed.

- save space
- save manpower
- grants security of glass positioning
- optimises line loading

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GRINDING & POLISHING

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- Process of 2 glass sides, even out of square, SIMULTANEOUSLY
- Size repeatability
- Controlled corner dubbing units
- Fast wheels change
- Does not require set up time at production change
- Remote control for arris sizes
- Automatic selection of different edge finish on same glass (arris only, ground edge, polished)
- LowE glass processing without coating contact
- Random glass size sequence without set up time
- Random thickness sequence without set up time

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DRILLING, NOTCHING, COUNTERSINK & WATERJET

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Two of the famous FRANCESCA multispindles heads with 8 tools each mounted on the main frame. In addition the Water Jet capability allows the realization of any geometric shape and size.

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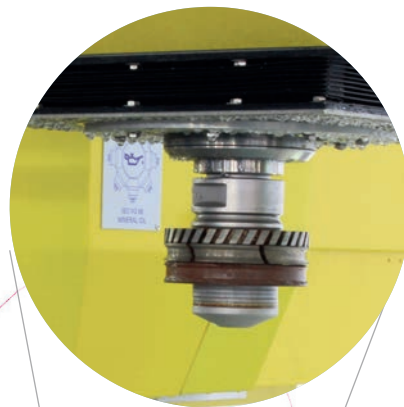
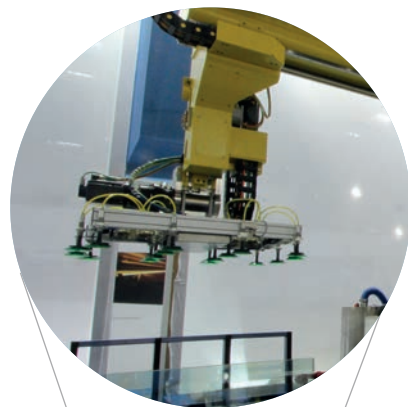
"GLASS FOLLOWER" UNLOADER SYSTEM "GLASS FOLLOWER" UNLOADER SYSTEM

as soon as a glass portion exits from the washer, the automatic unloader "hooks" the glass with the suction cups and follows its movement on the washer until it is completely free.

Then the glass is loaded on the vertical rack

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GLASS TRANSPORT WITH VACUUM BELTS SYSTEM (patented) SUPER SPINDLE specifically designed hi-speed spindle at 12.000 r.p.m.

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ROUND CORNERS, ENGRAVING & MITERING

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Evolution CNC MACHINE CENTER, an additional beam + head for a 4 axes CNC control - 6Kw electro spindle with automatic tool change from 12 storage positions.

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GLASS WASHING & DRYING

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Washing & drying operations are carried out by a special washer 800mm. space only, designed and developed for Forvet !

- Brushes with adjustable rotating speed guaranteeing better cleaning with respect to the standard
- glass can stand inside the washer during the drilling/milling/ countersink/water jet operations, because the brushes can be stopped and/or lifted from the glass
- Aspiration system to eliminate major part of glass dust and lucite
- Enanched blowers

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AUTOMATIC UNLOADING FROM RACKS

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The automatic unloader controlling 4 axes is directly assembled on the machine main frame. It is able to unload the glasses from the washer to a vertical rack directly.

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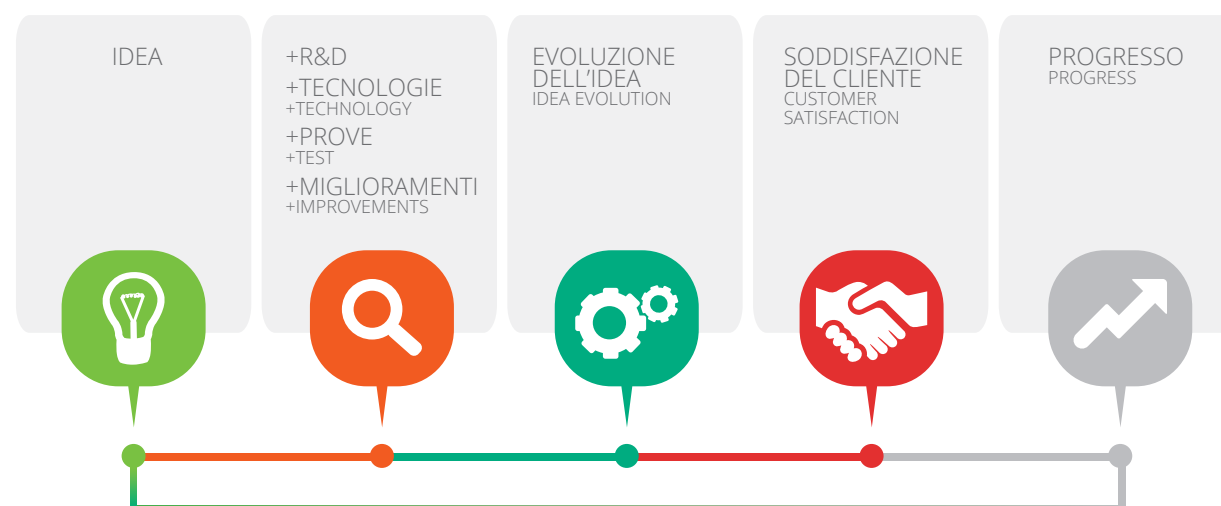


“Da 25 anni soluzioni innovative e macchine speciali per la lavorazione del vetro”

Abbiamo sempre creduto, fin dall'inizio, che ogni cosa può essere raggiunta nella vita, ma non senza sforzi. La nostra mente è come un paracadute, lavora solo se aperta. Per questo abbiamo sempre giudicato le soluzioni esistenti non sufficientemente buone, abbiamo sempre ricercato il meglio, qualcosa che fosse veramente speciale e che fosse fuori dal comune.

“From 25 years, innovative solutions in special glassworking machinery”

We have strongly believed since the beginning that everything in the life can be achieved, but not for free, of course! Our mind is like a parachute: it only works if we open it. So we always try to consider any solution not good enough; we want to research continuously the best, something really special that does not belong to standard.



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