

G-BOND UltraCure

UltraCure UV UV gluing head with lamp unit and metering system

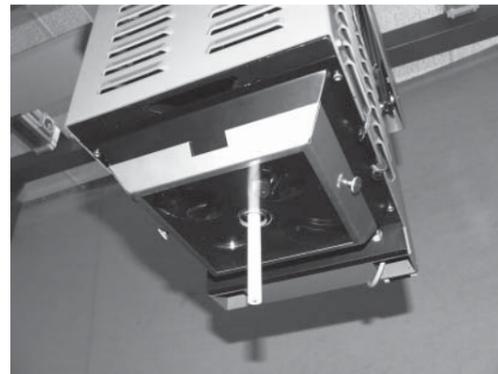
- KIWO UV gluing head with special nozzle for applying the KIWOBOND UV glue.
- Metering system with pressure vessel and fine adjustment for an optimal application of the right amount of glue.
- The amount of glue to be used can be adapted to the varying requirements and frame properties.
- Retractable gluing nozzle with light and drip protection.
- Lamp system with 4 UV lamps focused on the gluing surface.
- Short response times of the glue and optimal curing.
- Clearly defined curing of the KIWOBOND UV glue.
- No solvent emission, which supplies an important contribution towards the protection of staff health and of the environment.
- UV light protection device attached to the gluing head for the benefit of the operator.



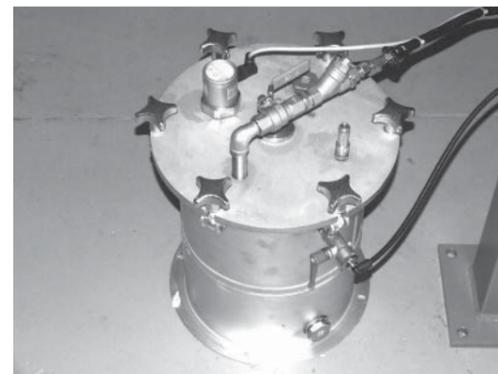
UltraCure UV system with light protection



Lamp unit UltraCure UV



UV glue nozzle



Glue pressure tank

G-BOND UltraCure:
The overall solution for
Stretching - Gluing - Curing



G-BOND UltraCure



The installation answers the EU directives for machinery (EC-conformity)

Technical changes reserved

May 07

All measures in mm / inch

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G-BOND UltraCure

Automatic stretching and UV gluing system

The new machine concept is based on a system partnership between the two companies Grünig (machinery supplier) and KIWO (UV gluing technique). This system offers numerous advantages and new possibilities for a highly professional mesh stretching and gluing.

Summary of the most important advantages:

- Important cost savings can be achieved thanks to process optimization
- High degree of automation
- Safe process sequences
- Maximum flexibility
- High cycle times guarantee an optimal cost-effectiveness
- High output, no useless waiting times
- No solvent emissions
- Requires less space in spite of increased productivity
- The modular machine concept is based on the following components:
 - **G-STRETCH 270A** Electromechanical stretching device with automatic stretching process
 - **G-BOND 770** 2-axes handling system with gluing robot
 - **UltraCure UV** UV gluing head with lamp unit and metering system

G-STRETCH 270A Electromechanical stretching device

- The mesh is automatically stretched in weft and warp directions.
- The stretching beams are moved by electric motors.
- Stretching of the mesh in true alignment with the thread, without any mesh distortion
- The automatic device offering up to 50 stretching programs ensures efficient work processes and the highest degree of reproducibility.
- Optimal handling and highest stretching precision.
- No contact between the mesh and the frame during the stretching process.
- The screen supports are pre-stressed and pressed against the frame with the same force that is used for mesh stretching, which results in a preliminary stretching of the screen frames.
- Within seconds, the stretching device can be continuously adjusted from the smallest to the largest screen format.

G-CHECK 2 Automatic mode

- The electronic tensiometer G-CHECK 2 developed by Grünig automatically measures the mesh tension in weft and warp directions.
- Unique measuring method with the instrument being applied from the lower mesh side. This means: no hindrance or restrictions for the operator of the stretching device while he is busy inserting the frame or fastening the mesh.
- Operation of the stretching device and introduction of all the parameters by means of a Touch-Screen Terminal.
- In the automatic mode a total number of 50 freely configurable programs is available. Upon selecting the applicable program number, the automatic stretching process is initiated.



G-CHECK 2 / Measuring head

G-BOND 770 2-axes handling system with gluing robot

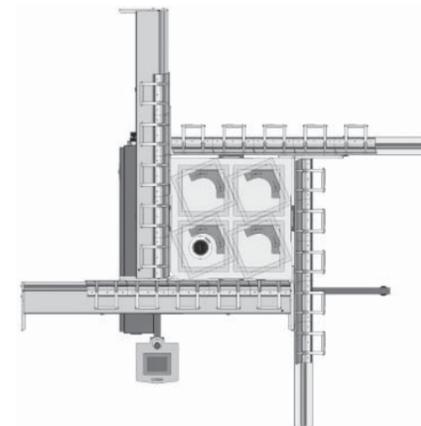
- Handling system assorted to the stretching device G-STRETCH 270A.
- Rugged tubular construction designed for mounting onto the stretching device.
- Automates the cumbersome application of the glue onto the mesh/the frame.
- It is no longer necessary to mix a two-component product.
- No pot-life to be taken into account and hence no loss of glue.
- High degree of productivity thanks to short curing times.
- X/Y axes system based on servomotors.
- All the process parameters freely programmable.
- Automatic gluing of one or several smaller screens.
- Glue application straight or angular, partially or full-surface.
- Maximum user friendliness thanks to a PC/Touch-Screen Terminal.
- Parking position during the stretching process.
- Reception unit for the UV-gluing head with lamp module.



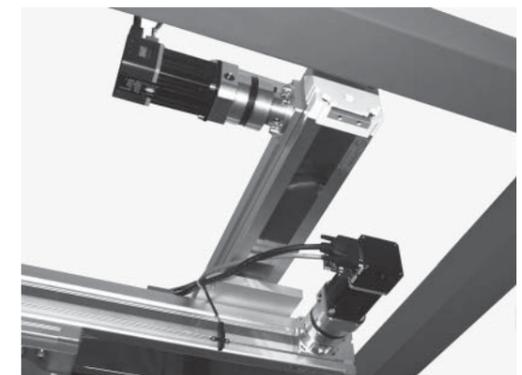
PC/Touch-Screen

Option W

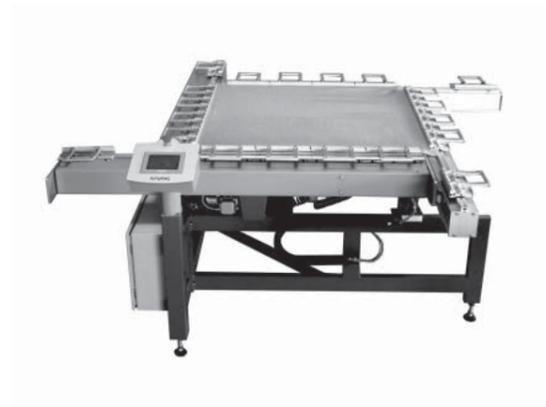
- This option consists of a wooden board with selectively 4, 6 or 9 limit stops for CDscreen frames.
- This allows a precise adjustment of the desired stretching angle in the following increments: 0°, 7.5°, 15° and 22.5°.



Option W



X/Y-axes system



Screen format	SB Screen frame width	mm	1250 + 1500
		inch	49" + 59"
	SL Screen frame length	mm	1250 + 1500
		inch	49" + 59"
Frame profile thickness		mm	20 - 70
		inch	0.8" - 2.8"

Options

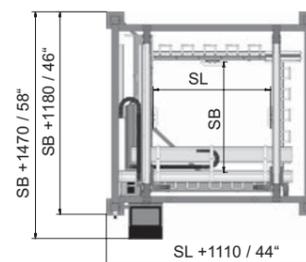
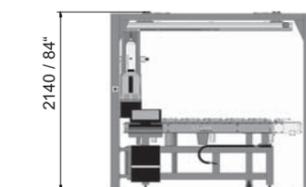
W

Dimensions	Total length	mm / inch	SL +1110 / 44"
	Total width	mm / inch	SB +1470 / 58"
	Total height	mm / inch	2140 / 84"

Travel distance in weft and warp directions	mm / inch	105 / 4"
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Energy supply	3 x 220 V / 3 x 400 V	50-60 Hz	xx A / xx KW
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Compressed air supply (oil-free)	Bar	7
Air consumption	lt/min	5-15



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