



# Glassprinting

HANDLING AND SCREEN PRINTING GLASS ENGINEERING



Infrared dryer

The conveyor width is a ring of chromium rollers with Kevlar rope, capable to operate with a temperature of max. 200 degrees centigrade. The conveyor is controlled by A.C. inverter. The speed is step-less adjustable from 2 to 20 m/min. Pitch of the rollers: 100 mm. 19 mm glass can be easily transported.

## I.R. Section

The I.R. lamps, medium wave type and are located at a given height from the conveyor surface, so to grant the maximum penetration of the medium waves, optimizing the curing depth and avoiding the skin effect that generates cracks on ceramic color.

The hot air generated by I.R. lamps metal housing is blown in between the I.R. lamps to dry the ink surface. The temperature of the air flow is set on a thermostat and the probe is located inside the blowing chambers.

The thermostat controls the air ejected and maintain the temperature into the chambers constant according to the glass size and quantity fed per minute changing the speed of the exhausting fan via inverter.

The exhaust outlets can be connected to a central ejection duct.

The I.R. lamps are controlled by a wave control systems. A knob allows to set the lamps from 0 to 100% power.

Any stop of the conveyor turns OFF the heating elements, leaving the fan running. A thermostat keeps the fans running till the temperature reaches 45 degree C. (delay switch off).

Overheating safety switch is mounted on the unit in case the temperature exceeds 200 ° C.

The heating sections can be opened (shell type opening) by a pneumatic device for: I.R. lamps replacement or maintenance. A pneumatic safety valve is mounted to hold the piston extended even though the air pressure drops to zero or an hose gets cut. Metal blocks are provided for safety.

I.R. DRYER  
ROLLERS

## Intersection

Between the I.R. Section and the cooling section there an intersection 1000 mm long.

## Cooling sections:

The air is taken from the surrounding environment and blown into the cooling chambers. The inlet air is filtered before being blown into the chamber.

The environment from where the air is taken, will have a direct influence on the glass temperature at the exit.

The cooling modules can be opened (shell type opening) by a pneumatic device for maintenance. A pneumatic safety valve is mounted to hold the piston extended even though the air pressure drops to zero or an hose gets cut. Metal blocks are provided for safety.

## Option

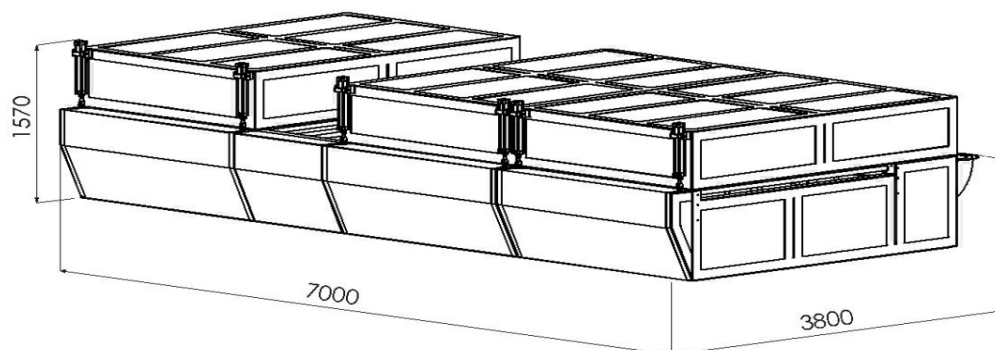
The second cooling section can be supplied with a chiller ( air exchanging type).

The section incorporates :

- The motor fan

- One box containing: air filter, cooling exchanger, drop separator. The cooled air is totally recycled.

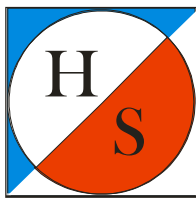
Model	Curing width mm.	Rollers width mm.
3	2000	2100
4	2200	2300
5	2500	2600



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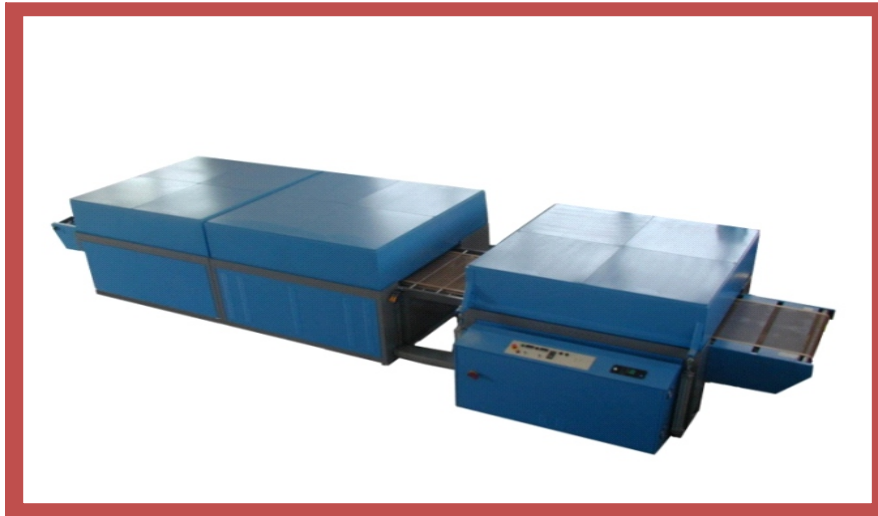
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## Infrared dryer belt system

The conveyor is made of fiber glass/Teflon coated mesh., or roll system It is capable to operate in temperatures up to 190° C. (374° F.)

The conveyor belt is fiberglass Teflon made with controlled by an auto aligning device.

The IR dryer is also available with roller/wheels type conveyor.

The I. R. section comprises 30 I.R. twins quartz lamps, medium wave type, powered according to the width selected, above the conveyor belt. The hot air generated by the I.R. lamp plenums is blown on the glass. The hot air flow is partially re-cycled according to the process set. An automatic exhausting valve controls the chamber temperature.

A thermostat controls the ejected air and maintains constant chamber temperature. The I.R. lamps are controlled by a wave control. A knob from 0 to 100% rating can adjust the power.

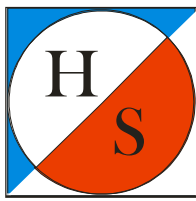
MODEL	Curing width	mm./ inches	Belt width	mm. / inches
1	900	35	1000	39
2	1200	47	1300	51
3	1600	63	1700	67
4	1800	71	1900	75
5	2100	82	2200	86
6	2200	86	2300	90



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## U.V. dryer belt system

The UV dryer is capable to cure the black UV ink commonly used for automotive glass black band.

The conveyor belt is fiberglass Teflon made with controlled by an auto aligning device.

The UV dryer is also available with roller/wheels type conveyor.

### Main characteristics:

- UV lamps 120 W/cm. Length.
- The reflectors are black anodized plated with shining aluminum sheet.
- The reflectors are easy removable for maintenance.
- The ozone ejecting blower (ejection rate according to unit width) is externally located.
- The UV lamps firing is an inductive system, and allows the three step power (80W/cm. – 100W/cm. And 120W/cm.).

MODEL	Width mm.
1	1600
2	1800
3	2100
4	2300



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