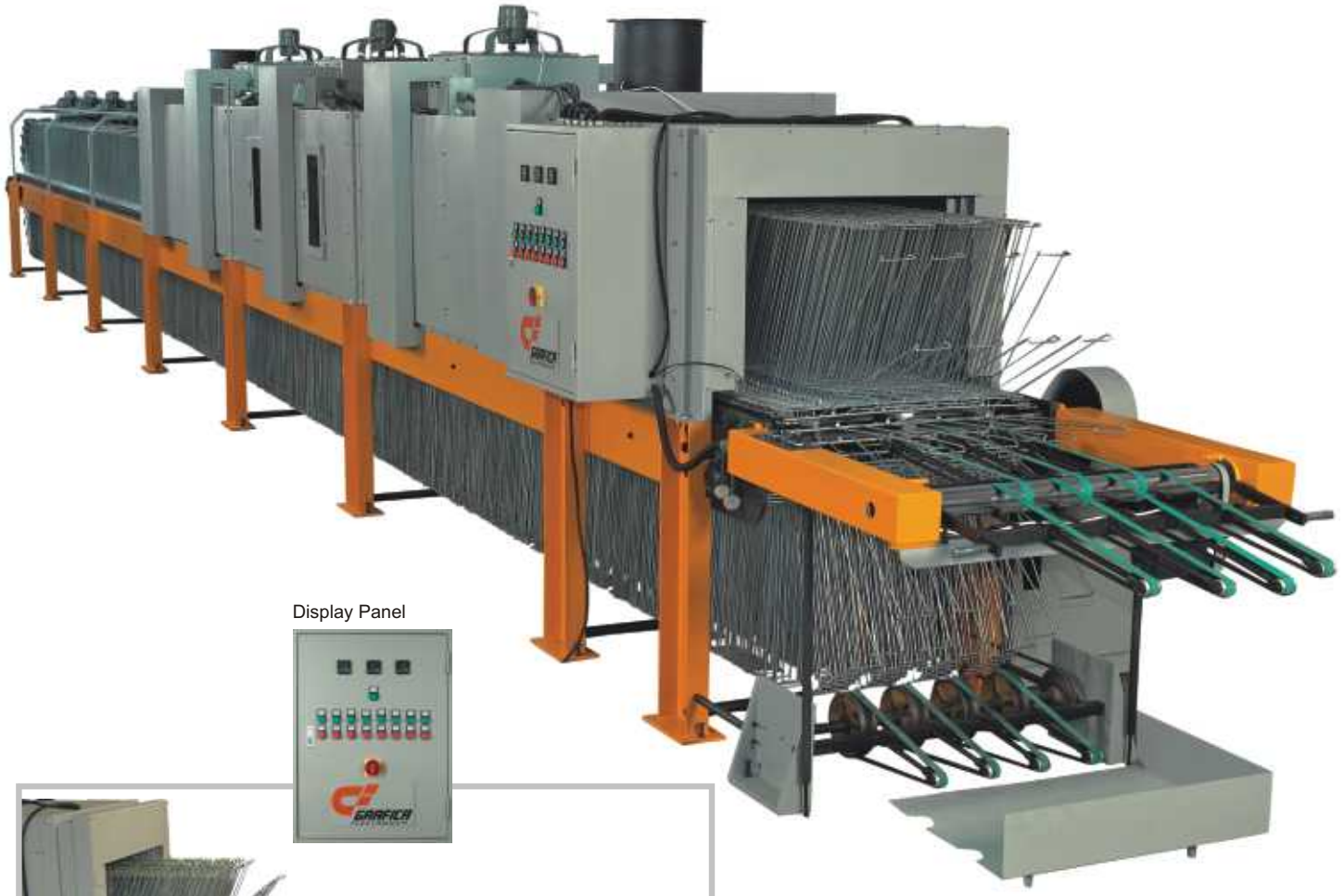
Wicket Dryer

A UNIQUE MODULAR DESIGN



Display Panel

Extended input conveyor belt:
To transport printed stock from printing machine output conveyor.

The machine is build sturdy and offers perfect drying of any solvent based inks. Wicket dryer is very useful for slow drying solvent based inks which requires longer drying time before stacking simultaneously maintaining high printing speeds above 2000/Hour which otherwise is not practical or expensive using conveyor based Hot Air Dryers. It is also useful and practical for heat sensitive substrates mainly used for Printing Ceramic Decals, Automotive Decals, Labels & Stickers, in general very useful for heat sensitive substrates. Fairly low temperatures and proper air flow with extended ambient cooling fans ensure perfect dimension stability thus delivers perfect registration accuracy.

A persistent problem associated with screen printing is to provide sufficient drying time using ambient air prior to stacking to avoid smearing of newly printed stock.

GRAFICA® FLEXTRONICA

Wicket Dryer

Immediate stacking is undesirable for several reasons. A slight shifting of the stock during the stacking process or when the stock is moved for storage only results in smearing the ink. Premature stacking before drying is complete, results in the sheets sticking together. Excessive drying time is unacceptable for most smaller operations having limited plant space since stock must be removed from the premises relatively soon after printing to make room for additional stock.

Where ambient air is used, the drying time is limited to the length of the convey or travel. Accordingly, various types of drying systems have been developed to increase the drying time of newly printed work prior to stacking. One of the most inexpensive and efficient types of dryers yet developed is the wicket dryer. A wicket dryer comprises a plurality of rows of wickets, each row supporting a separate piece of stock, which are mounted at spaced intervals along the upper and lower surfaces of a dryer frame for travel.

The primary advantage of a wicket dryer, in addition to the low costs of purchase and operation, is the excellent and efficient use of plant space. The artificial dryer also requires large amounts of energy which adds to the cost of printing.

The wicket dryer, however, carries the stock upright as it dries with ambient air, greatly increasing the number of pieces of stock that can be dried at one time in a given space as compared to belt dryers. When a row of wickets reaches either end of the dryer frame, it is pivoted to the opposite surface of the frame. The row of wickets is depicted in a position mid-way between the upper and lower surfaces of the frame.
Complete electrical & electronic components are of high quality standards to avoid failures and breakdowns thus minimizes maintenance. The machine is designed with proper exhaust system to throw away solvent laden air from the closed heating chamber thus minimize solvent smell inside the shop-floor and maintains healthy and safe working environment.

Standard Features:

- User friendly control panel
- Frequency Inverter for speed control
- Digital Temperature controller
- Accurate positioning using high quality mechanical clutch & brake system
- Photo sensors to detect paper and to operate wicket automatically
- Heavy duty chain for conveyor system
- Wickets duly plated to avoid rust
- High quality springs to hold substrates firmly while transport
- Three closed heating chamber with proper insulation
- Six open cooling fans blows ambient air on the substrate to maintain dimension stability

Operating Control Panel:

Easy & user friendly control panel

Technical Data

Description	Model: GF-2030 WD	Model: GF-3040 WD
Max Sheet Size	21” x 30” (540 x 780 mm)	30” x 40” (762 x 1020 mm)
Max. Temperature	60°C	60°C
Drying Speed	2000 ~ 3600 / Hour	2000 ~ 3600 / Hour
Number of Wickets	1346 (1” Gap Between Wickets)	1346 (1” Gap Between Wickets) 908 (1.5” Gap Between Wickets)
Total Power	18 kW	43.2 kW
Hot Air Zone	3	3
Cooling Zone (Ambient Air)	3	3
Dimensions (L x W x H) mm	18500 x 1800 x 2000	18500 x 2050 x 2450
Power Supply	420 ~ 440 Volts AC / 3 Phase / 50 Hz / 63 Amps	420 ~ 440 Volts AC / 3 Phase / 50 Hz /100 Amps
Weight - Approx	5500 kg	6500 kg

Technical data subject to change without notice
Cycle speed per hour (cph) subject to machine speed without feeding
** For plastic material static elimination device is to be provided by customer

For further details please contact:
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