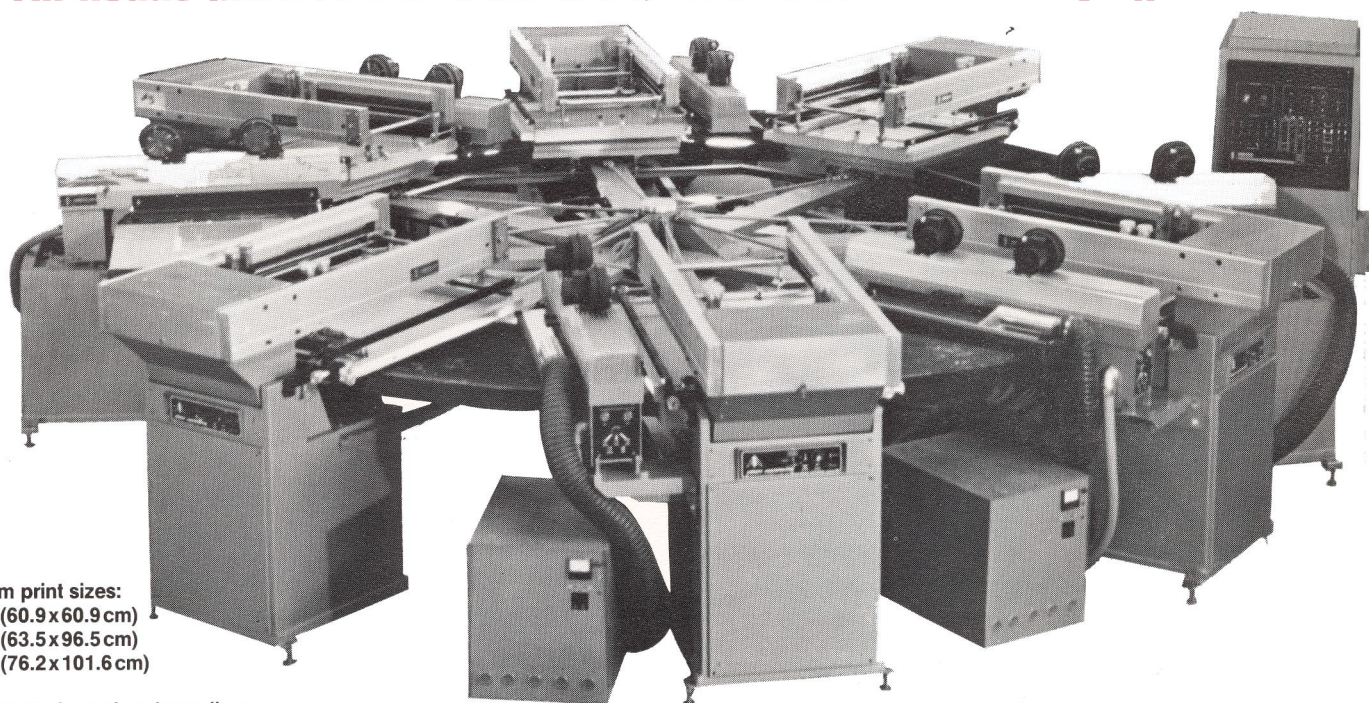


# HORIZON Multicolor Printers

*All heads print at the same time, with intercolor UV drying*



Maximum print sizes:  
24x24" (60.9x60.9cm)  
25x38" (63.5x96.5cm)  
30x40" (76.2x101.6cm)

Many patents issued and pending.

## ***Complete multicolor jobs are printed and dried within the circumference of the Horizon***

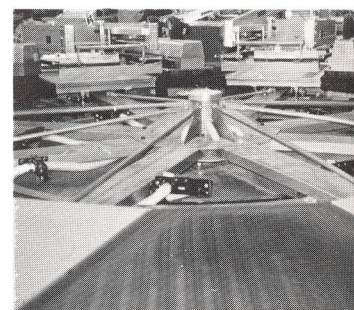
The *Horizon* is the most cost-effective sheetfed multicolor screen printing system available. It offers printing and UV curing/drying—in one compact unit. Up to 700 pieces/hour can be produced with 4-color process halftones, fine lines, and solid color areas.

The *Horizon* accurately indexes its vacuum platens, which firmly hold the stock or part through all functions. Production and handling costs are reduced, and improvements in product quality are ensured. A number of firms use the *Horizon* for many different types of material... paper, board, polycarbonates, pressure-sensitives, vinyls, metal parts, tennis rackets, polyethylene, and other plastics.

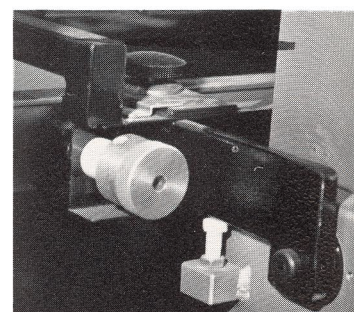
Setting up any job on the *Horizon* involves minimal substrate usage. The operator pre-checks print and color correctness on a finished, UV-cured multicolor product. *Micro-register dials* align the master frames with the vacuum beds.

The eight-station indexer accommodates six print heads and six Magnum UV drying modules. Any number of print heads up to the maximum can be furnished. Additions can be installed any time.

The *command module* of the *Horizon* makes it possible to control from one central station the function of the indexer and the print action of each head. Provision has been made for an automatic delivery unit (the *Escort-SS takeoff*) to remove printed stock from the vacuum bed after the final curing station.



**A rotary indexer automatically delivers substrates to each station.**



**Three-way micro-registration system maintains color-to-color accuracy.**

**American M&M**  
SCREEN PRINTING EQUIPMENT

*A Division of the A.W.T. World Trade Group*

Corporate Headquarters: 4321 N. Knox Avenue • Chicago, IL 60641 USA

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# Up to 600 two to six-color pieces per hour...save time and handling while producing full-color images with $\pm.001$ " registration

## Standard features

- Indexer Speed Control** ..... Regulates the speed at which the rotary indexer sequences. Adjust this control and the dwell time to establish the ideal rate of productivity for each job.
- Micro-Registration System** ..... Provides quick setup and a precise visual point of reference for color registration accuracy of  $\pm.001$ ".
- Independent Print Switch** ..... Located on each print head. Cycles the head separately of the others; provides a check of each color station during setup. Also beneficial when adjustments are required.
- Magnum UV Curing Units** ..... Patented UV curing units rated at 300 watts per inch of lamp (maximum) to cure UV inks on a wide variety of stocks. Variable settings also provide 200, 150, and 100 watts per inch.
- Horizon Chill Module** ..... Jet-air action removes heat from substrates, protecting printed products. Recommended for use with Magnum 300 UV curing modules. (See page 78.)
- Stepless Dwell Timer** ..... Infinitely variable dial selects the exact length of time you need to load and position each piece onto the vacuum platen, then shortens that interval as your unloading/loading speed increases.
- Off-Contact Peel Control** ..... Located on each print head. Single-point, all-mechanical control adapts peel rate to each substrate, screen tension, and/or type of ink.
- Squeegee/Flood Bar Angle Adjustment** ..... Adjust the angle of the squeegee and flood bar to produce desired deposit thickness with various ink viscosities.
- Squeegeelizer Units** ..... Pneumatic squeegee pressure equalizers automatically standardize and maintain uniform print pressure all along the entire length of each squeegee blade.
- Cure Speed Control** ..... Sets curing time of individual Magnum UV units.
- Central Command Module** ..... Allows operator to control, from one location, the advancement of the indexer and the action of each head.
- Central Exhaust System** ..... Provides thorough removal of ozone and other evaporative by-products of curing UV inks and coatings.

## Optional features

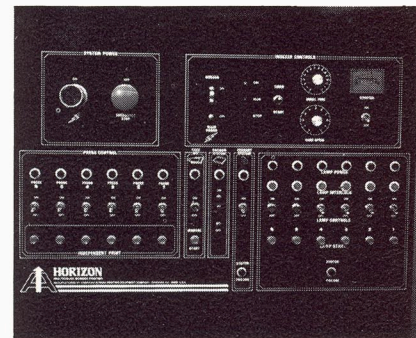
- Escort-SS Takeoff Unit** ..... Automatic takeoff to replace one stock handler. Located following the final curing station to reliably deliver all sheet stocks. (See page 10 for specifications.)

## Specifications (Horizon 24x24" Models)

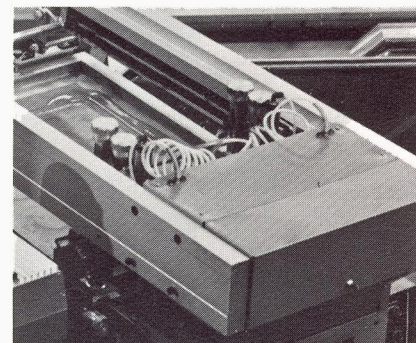
- Voltage** ..... 230 VAC, 3 phase, 60 Hz
- Power Consumption** ..... 3 Heads: 15 KW      5 Heads: 24 KW  
4 Heads: 19 KW      6 Heads: 29 KW
- Cycling Speed Range** ..... 0-700 impressions per hour

## Specifications (Magnum 300 units with Horizon Chill Module)

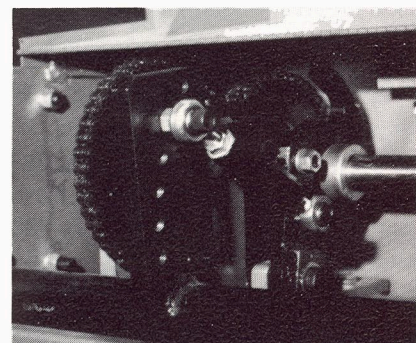
- Voltage** ..... 230 VAC, 1 phase, 60 Hz w/tap for 208V (std.)
- Amperage** ..... 22
- KVA Rating** ..... 5.0
- Output Level** ..... 300, 200, 150, or 100 watts. Each lamp automatically goes into 100-watt standby mode between cycles.



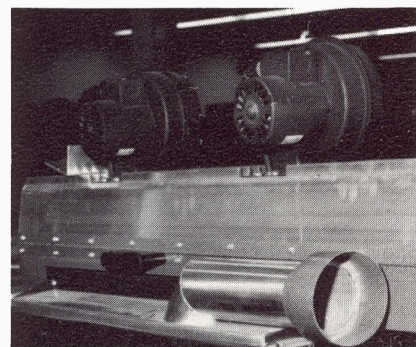
Regulate heads and curing units from central command module.



Squeegee/flood bar adjustments are made on the carriage.



Set automatic peel adjustment for sharpest print quality.



Magnum UV curing modules located between color stations.