



Accu Speed

ACCURACY WITH SPEED
FOR SEMI-RIGID TO RIGID SUBSTRATES



Accu Speed



Grafica's ACCU SPEED is one of the most innovative product developed for screen printers. FULLY AUTOMATIC FLAT BED SCREEN PRINTING MACHINE to print on any kind of flexible to rigid substrates. Full fill all your requirements fully automatic

No restriction on SUBSTRATE RIGIDITY, THICKNESS (up to 5 mm), SPEED (Max 2000/Imp/Hr), QUALITY & PERFECT REPETITION ACCURACY. In built squeegee equalizing system delivers perfect prints on substrates having slight uneven thickness.

The very special capability of screen-printing technology is its adaptability to the demands of variety of substrates; its practically applicable to any kind of printing medium. And now the use of ACCU SPEED is tremendously gaining popularity and it is an ideal mechanism for high accuracy screen printing.

ACCU SPEED works on the principle of STOP CYLINDER PRESS as in STOP CYLINDER principle the cylinder rotates only in one direction and remains stationary while the screen returns to the start position. In this case the substrates gets full time to perfectly align with front and side lay thus avoids sheet push back. While the screen returns back to the start position simultaneously flood coater moves down flooding the ink all over the screen. The substrate is than properly gripped while gripper stops during flooding operation resulting in no sheet movement. In the case of ACCU SPEED there are four grippers rotates in one direction and stops while printing is under operation e.g. as one gripper is engaged holding substrate under printing while other gripper is ready in front for registration thus every sheets get proper time to register while the

printing operation takes place this also avoids sheet push back or unwanted movement of substrates during registration and gripping. This system delivers the best and accurate registration even at full speeds.

The only difference in Cylinder Press and ACCU SPEED is, in Cylinder Press squeegee head remains stationary and the screen moves front back. The cylinder with grippers, holds the substrates and pulls forward. In ACCU SPEED the screen remains stationary and the squeegee head moves front back and the grippers pulls the substrate forward.

ACCU SPEED is a modular design, AUTO FEEDER can be added later in-line as an when required to convert from ¼ Automatic into Fully Automatic system, ability to print



multiple times on the same substrates. Heavy duty feeder, automatic registration system for substrates ranging from 70 µm to 5 mm thick, having max weight 3 kg/m²/

ACCU SPEED an ideal choice for any printers to reduce labor cost, increase production & productivity. It is a user friendly machine.





Operating Control Panel:

Easy & user friendly touch screen control panel with speed regulator driven with frequency inverter and a digital indicator helps operator to set the desired speed accurately.



Zero Backlash Three Point Screen Frame Movement:

Allows operator to fine tune register between each color on all sides easily with the help of dial gauges.



Feeder:

With no much settings the feeder is designed to perfectly feed from any flexible to rigid substrates. Depending on the substrates the feeder can be set to single sheeter mode or overlapping mode.



Vacuum Feed Board:

Vacuum feed board protects sensitive & soft substrates from scratches and minimizes static electricity. The optical sensor provided to ensure that each stock flows correctly towards the gripper thus avoids print impression on the vacuum bed thus avoid image to transfer on back side of the stocks this also further reduces rejection.



Squeegee Head Movement:

Independent motor driven with variable frequency inverter ensures controlled assembly movement with adjustable sensors to set desired print stroke length. Complete head movement on hardened steel shaft with low noise bush and vibration free movement delivers stable and accurate printing results.



Gripper:

Heavy duty & smooth gripper assembly ensures faster feeding with controlled positioning accuracy to deliver perfect registration even at full speed. High quality springs used to hold thin to thick, flexible to rigid substrates precisely.



Registration System:

The side lay is designed with bearing for smooth movement of paper with adjustable pressure as required according to stock thickness and stiffness. A sensor is also provided to confirm accurate registration of substrates before printing thus reduce wastage.



Squeegee Head Rotation:

Quick tool free head rotation for easy screen change over without removing squeegee holder & flood coater.



Squeegee & Flood Pressure:

The squeegee and the flood operates smoothly and are driven by individual pneumatic cylinders. A squeegee pressure equalizer ensures perfect balance of pressure all over the screen delivers accurate registration on each prints. Adjustable squeegee angle with markings for repetition accuracy.

Standard Features:

- Heavy duty welded steel structure modular design
- Castor wheel movement with foundation bolts for easy installation
- Honey comb vacuum bed with Stainless Steel top
- User friendly graphical backlit touch screen control panel
- Frequency Inverter for speed control with digital indicator
- Synchronized print head & table movement for fast and accurate print cycle
- Independent off-contact adjustment on all four sides within the operators reach
- Automatic stream, rear pickup feeder with suction feed belt
- Heavy duty vacuum cup feeder mechanism designed to lift rigid and heavy substrates
- Continues overlapped sheeting or single sheeter mode
- Double sheet or NO sheet optical sensor
- Synchronized sheet transfer from delivery to dryer (only on GRAFICA make dryers)
- Pull & push type side lays with bearing for smooth substrate movement with optical sensor
- Front lay sensor to ensure perfect register accuracy
- Adjustable side lay position (both sides)
- High quality aluminum grade extruded gripper bar with individual spring loaded gripper
- Convenient loading of screen frames from both sides
- Individual squeegee/flood pressure & angle with markings for easy setting and repetition accuracy
- Squeegee head movement on hardened steel shafts with low noise bearings
- Easy tool free rotation of squeegee head for quick screen changeover

- High quality fibre timing belts for squeegee head movement minimizes maintenance and avoid dirty oiling greasing as compared to conventional chains
- Squeegee pressure equalizer for even pressure all over, useful for substrates having slight uneven thickness
- Adjustable squeegee, flood bar speed & stroke independently through main control panel
- Adjustable gripper speed independently through main control panel
- Adjustable and peel-off system synchronized with squeegee stroke & speed
- Zero backlash micrometer pitch three point screen movement with dial gauges (0.01 mm) reduces setup time and delivers accurate registration
- Three phase AC geared motors with AC frequency inverter for squeegee head movement minimize maintenance
- Easy access of emergency at main control panel and at over print
- **Complete microprocessor & Electrical controls from Telemecanique**

Optional Features:

- Static electricity reducer (Anti-Static device)
- Sticky roller for clean sheet feeding
- Screen frame assembly on linear guide rails to easily pull out and set back on the same position after cleaning
- Pneumatic screen frame clamping
- Stepper motor with remote control allows operator to set the registration from any side or even at delivery end after curing. Further reduces production loss and setup time.
- Cross-over belt

Technical Data

Description	Model: GF-2030 AS	Model: GF-3040 AS
Print Area - Max	20" x 30" (508 x 762 mm)	30" x 40" (762 x 1016 mm)
Substrate Size - Max	21" x 31" (533 x 780 mm)	31" x 41" (780 x 1020 mm)
Substrate Size - Min	15" x 15" (381 x 381 mm)	15" x 20" (381 x 508 mm)
Substrate Weight - g/m ²	120 ~ 3000	120 ~ 3000
Substrate Thickness	70 µm ~ 5 mm	70 µm ~ 5 mm
Gripper Margin - Min	15 mm	15 mm
Squeegee Angle Adjustment	0 ~ 25° (Degree)	0 ~ 25° (Degree)
Peel-off Adjustment	0 ~ 18 mm	0 ~ 18 mm
Off-contact Adjustment	3 ~ 12 mm	3 ~ 12 mm
Screen Frame Size	20" x 22" OD - Min 36" x 46" OD - Max	20" x 22" OD - Min 46" x 56" - OD - Max
Screen Frame Thickness	1" ~ 1.5"	1" ~ 1.5"
Screen Frame Movement	± 10 mm	± 10 mm
Air Pressure - Air Volume	8 Kg/Cm ² - 24 Lt/Min	8 Kg/Cm ² - 24 Lt/Min
Servo Stabilized Power Supply	420 ~ 440 Volts AC / 50 Hz / 3 Phase / 25 Amps	420 ~ 440 Volts AC / 50 Hz / 3 Phase / 32 Amps
Power Consumption	7 kW / 9.3 HP	8 kW / 10.5 HP
Cycle Speed	800 ~ 2000 / Imp / Hr	800 ~ 2000 / Imp / Hr
Dimension With Feeder (Without Stacker & UV)	13.5' L x 8.0' W x 4.6' H	14.3' L x 8.8' W x 4.6' H

Print area : 40" x 60" available on request

- Technical data subject to change without notice
- * For auto registration substrate should be cut on guillotine machine & perfectly right angle.
Cycle speed per hour (cph) subject to machine speed without feeding
- ** For plastic material static elimination device is to be provided by customer

UV curing machine and stacker shown on the cover page is not a part of the standard machine
Air Compressor, Servo Stabilizer, Squeegee Rubber, Screen Frame, Inks and other consumable are not supplied with the standard machine
Servo stabilized power supply is essential to protect all electronics & electrical parts

Optional System: Screen Frame Assembly Pull-out:

This new unique system allows operator to clean or touch up screen comfortably in between print runs. Complete screen frame assembly is mounted on a linear guide rails to ensure repetition accuracy for perfect registration.

Independent cross-over stand:

With unique crossover stand supplied with standard machines, which helps to feed printed stock to any types of dryers. Tool free belt lifting device provides freedom of access on both sides of the machine faster.



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