



MANUFACTURING EQUIPMENT LIST

FOLDING DEPARTMENT

4 – F.L. SMITHE SRW

The most modern and versatile, high speed folding machine in our plant and in the envelope industry today. These presses will allow up to 6/1 enhanced flexo-graphic printing with “SERVO” motors for each print unit allowing the most precise registration and multi-color printing including 4 color process printing. Each print unit has its own drying unit for ultimate quality. We have a second inside tint print unit. The SRW can die-cut and patch multiple windows in-line or place perforations on the envelope. These presses are equipped with web units as well. The F.L. Smithe specifications dictate a side seam only construction. This machine produces up to 1,500 envelope per minute. These machines are also equipped with electronic sensors or an “eye” that detects register marks for pre-printed flat litho roll-to-roll conversion.

Two of these SRW machines are equipped with inline embossing units. The SRW machines are equipped with a special glue packet retrofit package and can produce welded side seam envelopes and false bottom pockets.

3 – W+D 527 GSV

One of the most modern and adaptable, high speed machines in the envelope industry today. These presses can print 2 colors outside and 1 color inside on an envelope using doctor-blade flexographic printing. The 527 can manufacture single or multiple windows, front and back, in-line or place perforations on the envelope.

NOTE: Two of our four Winkler-Dunnebie 527GSV folding machines are equipped with web units, which will allow for the manufacturing of envelopes without the die cutting process.

2 – W+D 326 CLASSIC

These state-of-the-art multi-faceted folding machines are capable of producing diagonal seam, booklet (side seam) and open-end style envelopes. Size range on diagonal seam from 2-1/4 X 3-1/8 up to 5 X 11-1/2, on booklet sizes from 2-1/4 X 3-1/8 up to 9-1/2 X 12-5/8 and on open ends from 3-1/2 X 4 up to 10 X 13. Any of these sizes can be manufactured with patched window(s) and 2/1 enhanced flexo printing of the highest quality. These machines also offer in-line latex capability. These machines have the capability of delivering booklet style envelopes with an outside side seam and can also do a drop seal gum bar with perforation.

NOTE: These machines are capable of “horse shoe” gum application on a remittance seal flap, meaning - remoist glue on all three sides of the seal flap.

NOTE: All of Diamond Envelope folding machines are capable of double scoring the top flap on an envelope when necessary or as required.

PRE-PRESS & PLATEMAKING

(3) Macintosh OSX G5 Work Stations

Navigator 9.0 Rip Station

CTP System

PlateRite FX870 Imagesetter

NyloFlex Washout Unit

Epson Stylus Pro 9900 Color Proofing System with Color Management Profiles

MAC PROGRAMS

Adobe Acrobat Pro X

Quark Express 2020

Adobe In Design CC 2020

Adobe Illustrator CC 2020

Adobe Photoshop CC 2020

CUTTING DEPARTMENT

1-MAXON MSS – HS SHEETER

The most modern sheeter available today handles four rolls of paper at a time, producing approximately 80,000 lbs. of sheeted paper a week. This machine allows Diamond to maximize paper yield by sheeting stock to order, minimizing waste. The Maxson sheeter has the ability to produce precision trimmed sheets that are already to be sent to sheet-fed lithographers or for blank-fed die cutting.

2 – F.L. SMITHE SEMI-AUTOMATIC CUTTING PRESSES

These machines are used to cut envelope “blanks” from sheeted paper stock. All are capable of cutting plain stock or pre-printed lithographed sheets. The semi-automatic nature of these machines allows for expanded production capabilities.

2 – SCHOEN AUTOMATIC DIE CUTTING PRESSES

These 2 programmable automatic cutting presses are used for large volume production runs (primarily flat-litho conversion) in which the most accurate die cutting and high production output are required. Capable of cutting more than 1,100,000 envelope blanks in an eight-hour shift, these highly computerized machines have tremendous accuracy in the die cutting of plain, as well as, pre-printed, lithographed paper stocks. These presses load, die-cut and move large volumes of die cut envelopes with ease and efficiency.

2 – PIVANO STRAIGHT-KNIFE CUTTING PRESSES

These straight-knife cutting presses are used for cutting down sheeted paper stocks and various other finishing requirements.

1 – PMC MACHINE

This machine is a customized single cut, solid die cutting machine. Blocks of blanks are loaded into the feeder and they are die cut to shape.

PRINTING DEPARTMENT (OFF-LINE PRINTERS)

1 – HALM “JUMBO” SUPER JET

Prints 2-color lithography with a perfecting unit when a pre-converted envelope. This “jumbo” jet allows us to jet-offset 9 X 12 and larger envelopes with maximum efficiency and registration.

2 – HALM SUPERJET

Prints 2-color lithography with a perfecting unit when printing a pre-converted envelope up to a maximum 6 X 9 envelope. This machine yields up to 500M envelopes in one eight-hour shift.

1 – DIAMOND ROLLER P7-13

Prints 2-color perfecting lithography on uncoated and matte paper stocks. With a maximum image area of 13-1/2 X 20, the Diamond Roller Press is capable of printing and perfecting a 10 X 13 size envelope 2 up.

FINISHING DEPARTMENT

1 – LABEL-AIRE MACHINE

Capable of affixing either regular or “piggy-back” labels. This machine can apply labels to the outside of an envelope at approximately 200,000 labels per shift.

1 – VERMEHREN “CHEETAH” GLUING MACHINE

This high-speed gluing machine can apply latex, pressure sensitive (Peel & Seal), and remoistable glue to envelopes or flat-sheets of paper. Also, this machine has the capability of perforating an envelope or flat sheet of paper in-line.

***Contact us for more information:**

www.diamondenvelope.com

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