

OCCASION DIDDE & GLASER APOLLO

ROTATIVE Offset 2 Couleurs Roll to Sheet, coupe 210mm laize 35cm

- **DIDDE APOLLO 2 couleurs**
- Machine de 1981 révisée en 1995 par Didde France S.A.



Composition :

- dérouleur avec frein
- 2 groupes offset humide développement 209,55mm
- 1 barre de retournement
- 1 sortie feuilles largeur de coupe 350mm
- 1 empileur haute pile

Cette machine est actuellement visible en France et, disponible sauf vente entre temps.

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SECTION I

1-1. INTRODUCTION

The Apollo-21 Web Offset Duplicator is a high speed offset duplicating device with an input of continuous web paper roll and an output of printed, punched (optional) and cut sheets. Punching and cutting operations are performed with no reduction in the 25,000 sheets-per-hour maximum speed.

The Duplicator can print images of one or two colors on one side of the web or, with the turnbar attachment, a single color on each side of the web.

1-2. SPECIFICATIONS

Table 1-1 contains the general specifications of the Duplicator.

1-3. DESCRIPTION

1-4. Roll Stand

The roll stand supports the paper roll and delivers the web into the Duplicator. The adjustable spring tension controlled dandy roller rides on the web as it feeds, and through mechanical linkages, applies pressure to the roll core brake, thus maintaining a predetermined tension on the web. A positive-locking roll core shaft eliminates roll slippage in the case of damaged or out-of-round roll cores. The web rides against the upper or lower decurl bar, depending on the direction of roll rotation. The convex surface of the web is drawn across the decurl bars to remove the curl from the web and ensure better delivery.

1-5. Ink System

The ink fountain is equipped with self-sealing neoprene end inserts which permits interchangeability of fountain blades. The neoprene, also, can adapt itself to any setting of the fountain keys. Ink fountain roller action is governed by an infinitely variable one-way clutch drive; this control, together with the nineteen fountain keys, assures precise regulation of ink distribution. An ink ductor, three sets of rider rollers, two vibrators and two form rollers complete the ink system. Form rollers are manually operated on and off the plate.

1-6. Water System

The water fountain roller is driven by an independent variable speed motor. A fountain roller, water ductor, two form rollers and a vibrator makes up the water system. Water ductor and form rollers are easily removed for washup or recovering. Form rollers are manually operated on and off the plate.

1-7. Printing System

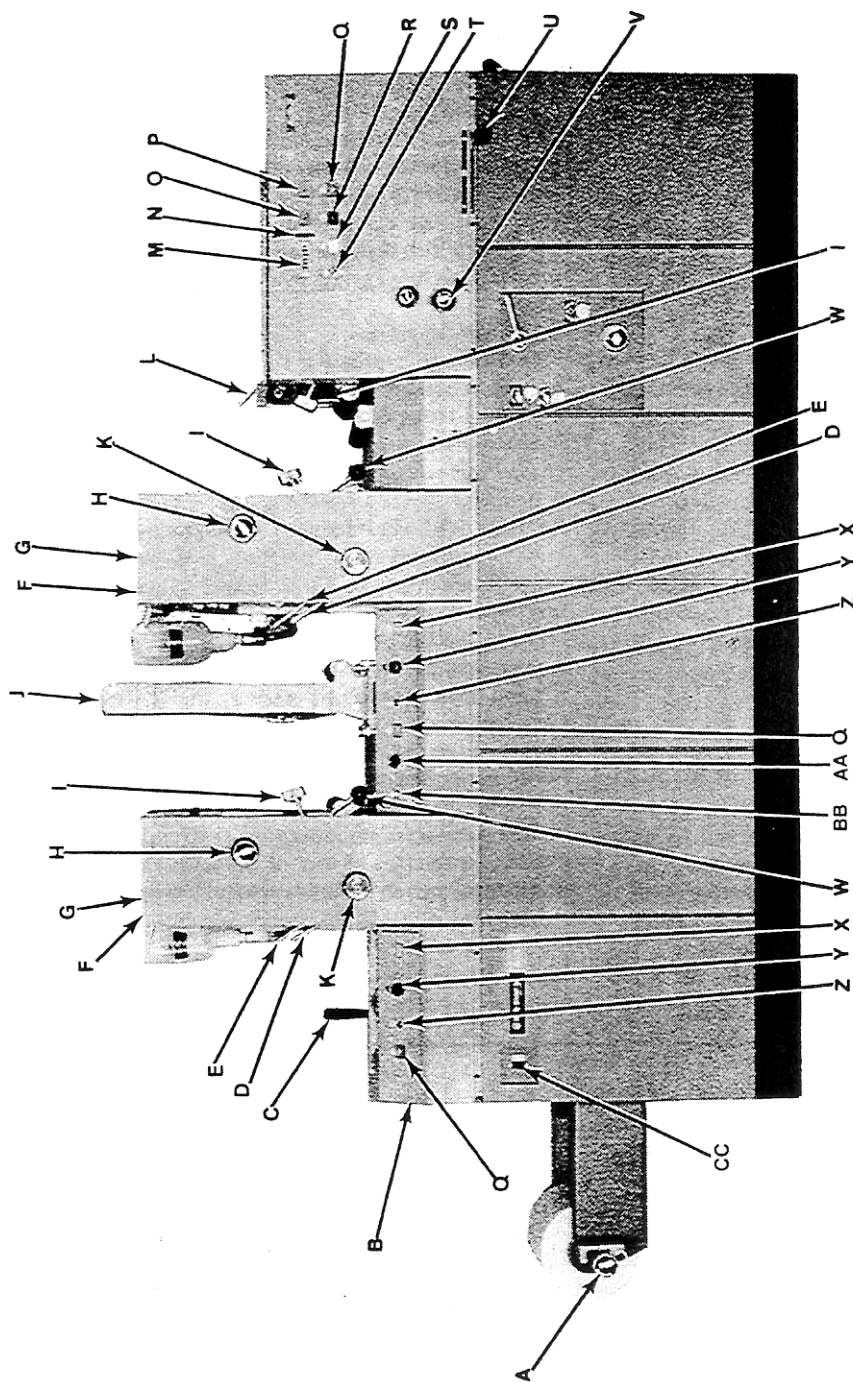
The plate and blanket cylinders are both precision machined and ground from stainless steel and are equipped at each end with hardened bearers. The impression cylinder is hardened steel and, like the blanket cylinder, mounted in eccentric bushings which provide necessary movement for impression control due to varying stock thicknesses.

1-8. Drive System

Duplicator drive power is furnished by a constant-speed AC motor, equipped with an end-mounted mechanical brake. Drive output is transmitted from a chain sprocket, on the speed-reducer mechanism, by a drive chain to a sprocket and shaft assembly on the gearside of the Duplicator. The speed is governed by the setting made to the mechanical linkage, located on the workside of the stacker end, which provides a wide range of speed variation. It is mechanically linked to a servo mechanism in an electrical enclosure. A reversible fractional horsepower motor is activated by either the forward (fast) or reverse (slow) limit switches of the servo mechanism. Each switch is mounted on a switch arm suspended from the pivot arm shaft. The normally closed switches are mechanically held open by a common tension spring which holds the switch arms against the switch abutment plate. The plate is pinned to the pivot shaft adjacent to a rotationally-free triangular plate (bell crank). A perpendicular projection, mounted on the plate, extends between the switch arms. A corner of the bell crank is pinned to the mechanical drive-speed linkage. Lever operation causes bell crank rotation which closes either the fast or slow switch, depending on the desired actuating direction of the linkage lever and corresponding to the desired faster or slower speed. The function of the reversible fractional horsepower

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|-----------------------|--|------------------------|
| Lightest weight paper | 12 lb. bond | 46,0 g/m ² |
| Heaviest weight paper | 100 lb. index | 181,0 g/m ² |
| Maximum roll diameter | 32" | 81,3 cm |
| Maximum roll width | 14" | 35,6 cm |
| Minimum roll width | 5" | 12,7 cm |
| Sheet cut-off size | 8 1/4" | 21,0 cm |
| Maximum printing area | 7 15/16" x 13 1/4" | 20,2 cm x 33,7 cm |
| Paper feed rate | 286 ft/min. (25,000 sheets per hour maximum) | 87,17 m/min. |
| Paper jog rate | 72 ft/min. minimum | 21,95 m/min. minimum |
| Length | 101" | 257,0 cm |
| Width | 32 1/2" | 83,0 cm |
| Height | 57" | 145,0 cm |
| Weight | 2000 lbs. without punch | 907,2 kg |
| | 2280 lbs. with punch | 1034,2 kg |

Table 1-1. Specifications



- A ROLL LATERAL ADJUST
- B WEB TENSION
- C ROLL LIFT HANDLE
- D WATER FORM "ON-OFF"
- E INK FORM "ON-OFF"
- F INK ADJUST
- G INK DUCTOR "ON-OFF"
- H PLATE REGISTER CONTROL
- I COMPENSATOR CONTROL
- J TURNBARS
- K IMPRESSION CONTROL
- L PULL WHEEL "ON-OFF"
- M COUNTER
- N COUNTER RESET
- O "POWER ON" INDICATOR
- P INTERLOCK INDICATOR
- Q STOP PUSHBUTTON
- R START PUSHBUTTON
- S EJECT PUSHBUTTON
- T COUNTER SWITCH
- U SPEED CONTROL
- V KNIFE CLUTCH DISENGAGE
- W BLANKET CYLINDER "ON-OFF"
- X JOG PUSHBUTTON
- Y WATER MOTOR SPEED CONTROL
- Z WATER MOTOR "ON-OFF" SWITCH
- AA REV.-SAFE-FOR. SWITCH
- BB RUN-JOG SWITCH
- CC POWER "ON-OFF" SWITCH

Figure 1-1. Apollo-21 Offset Duplicator