M360-BK

Bookline press

MANUGRAPH

Technology in Print

M360-BK

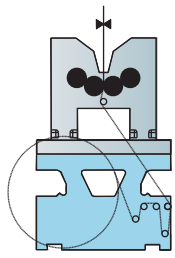
M360-BK is a single width, single circumference press and is the latest addition to the Manugraph stable. With a maximum speed up to 36,000 cph and an excellent price performance ratio, **M360-BK** meets the printing requirements of Book Printers alike. With its inbuilt flexibility, **M360-BK** is capable of printing Quarter fold & Double parallel fold products efficiently. Short web path ensures excellent print quality and reduced waste.

Features at a glance

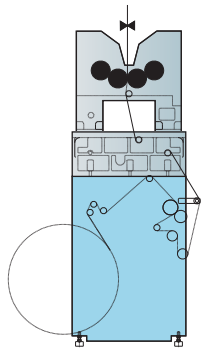
- Max. Speed up to 36,000 cph
- Max. web width 889 mm (35")
- Cut-off lengths 508, 533, 546, 560, 578 mm

  (20", 21", 21½", 22", 22¾")
- Integrated Unwind for Mono Unit and standalone Unwind for Tower. Option of integrated Autopaster for Mono Unit & standalone Autopaster for Tower
- Pneumatic controls for impression, ink & damp form rollers on/off
- Box type side frames on gear side
- High quality alloy steel cylinders supported on precision class taper roller bearings
- Narrow-gap Reel rod blanket lock-up with bearer rings on blanket cylinders (Standard)
- Slot gap tool-less plate lock-up 1.60 mm with register pin
- Swing down ink fountain with calibrated lever type ink keys
- 8-roller ink train with 2 form rollers and 2 Rilsan coated oscillating rollers
- Oscillating rollers are mounted on needle roller bearings
- Spiral brush dampener with motorized water pan roller
- Motorized on-the-run lateral, circumferential, unit-to-unit register
- Fan-out correction devices
- Non contact web break detectors
- PLC – based drive panel
- Multi webs through tower (Optional)

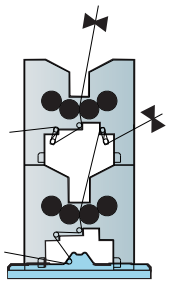
Print Unit Modules



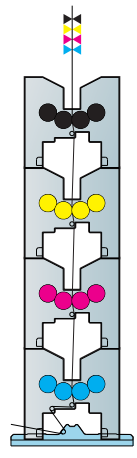
Mono with Unwind



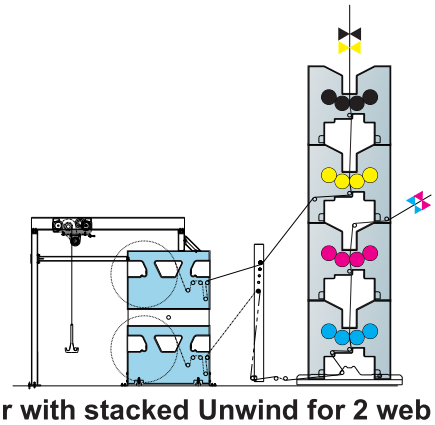
Mono with Autopaster



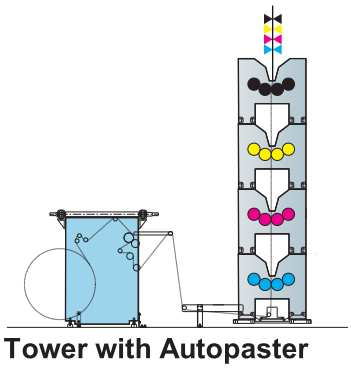
2 Hi Unit



4 HI Tower



4 Hi Tower with stacked Unwind for 2 web printing



4Hi Tower with Autopaster

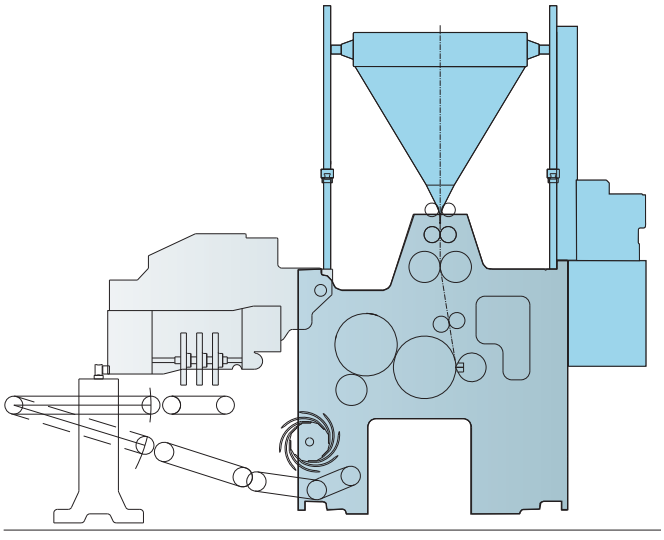
Cylinders for the best performance

Reel Rod Blanket Cylinder Lock-up

Bookline Folder

Manugraph introduces a new folder to cater to the varying demands of the book printing market segment. The compact design of the folder is the perfect blend of proven Manugraph folder technology and additional features to enhance the performance and ensure flexible applications.

Particular importance has been given for achieving higher folding accuracy with faster make ready time essential for book printing applications.



Folder Features

Second fold and Superstructure

1. 1:2:2:1 Principle jaw folder
2. Air cushioned former with single RTF
3. Two pairs of driven Metco coated steel draw runners..
4. PIV drive for RTF.
5. Pneumatically operated runners on RTF.
6. Pneumatically operated slitter/longitudinal perforation on RTF.
7. Standard superstructure with fix gain driven draw rollers.
8. Movable former to accommodate variable web width in Quarter fold.
9. Over-fold and Under-fold adjustments (manual)
10. Adjustable batch counting system.
11. Eight finger bucket wheels common for 2nd and Parallel fold.
12. Electronic jam detection system.
13. Pneumatic clutch for Overload protection and folder drive disengage (Optional).
14. Motorized cut-off compensator (Optional).
15. Add-on folding modules to get different products.

Third Fold

- Max No. of webs 2 Nos.
- Max speed 30,000 CPH
- Compact design with minimum belt travels.
- Third folder works on the chopper principle.
- Manual change-over with minimum change-over time.
- Product delivery at 90° to press line is standard and delivery parallel to pressline is optional.
- Cross and Longitudinal perforation.
- Provision of Jam detection sensor.

Double Parallel Fold

- Max No. of webs 2
- Max speed 36,000 CPH
- Integrated in the basic second fold folder.

Unwind / Flying Paster

Features - Unwind (Reel stand)

- Max. reel diameter 1067 mm and Web width 889 mm
- Pneumatically operated dancing roller linked to reel brakes with programmable tension control system for constant web tension
- Pneumatically operated ventilated disc brakes
- Option of Stacked Unwind for 2 web provision

Features - Flying paster (Autopaster)

- Max. reel diameter 1067 mm (42") and Web width 889 mm (35")
- Pneumatically operated dancing roller mechanism for constant web tension
- Separate AC motor for reel holding arm rotation
- Electronic photo sensors, inductive sensors and encoder for positioning of reel and arms movements
- PLC with encoder provides precise position sensing required for autopasting cycle
- Knife and Brush roller mechanism for pasting
- Belt drive to speed up new reel
- Pneumatically expandable reel clamping shaft

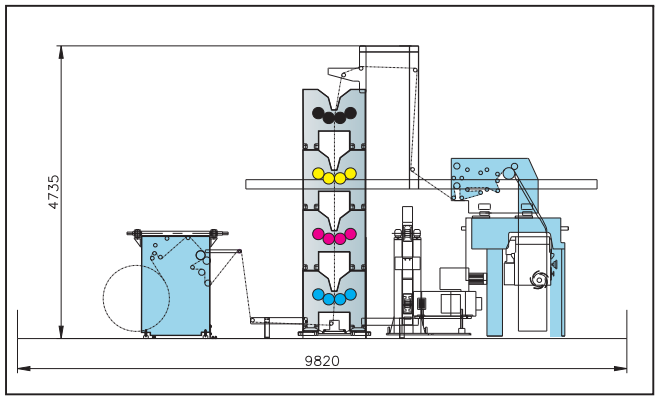
Central Console

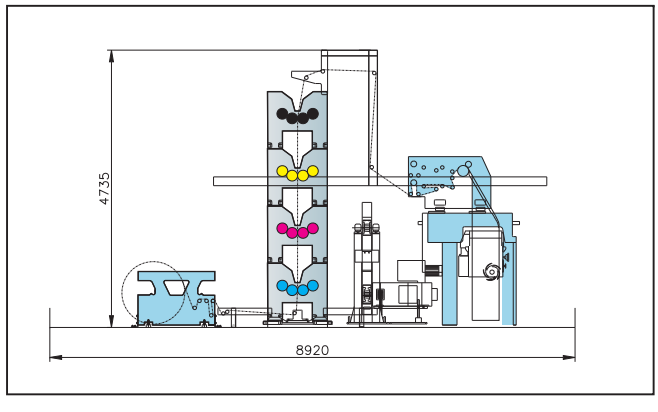
- Central Console for press controls and automatic sequential mode of printing functions
- Open loop motorized registration controls
- Master Potentiometer for overall dampening control
- Touch screen for setting registration values and display of machine speed, sheet counter, batch quantity & fault indication.

M360-BK

Max. Printing speed - 2nd Fold - 3rd Fold - Double Parallel fold	 36,000 cph 30,000 cph 36,000 cph
Max. reel diameter	1067 mm
Web width	600 - 889 mm
Cut-off length	508, 533, 546, 560, 578 mm (20", 21", 21½", 22", 22¾")
Printing unit modules (standard)	Arch type – Mono unit with integrated Unwind – 2 Hi Unit – 4 Hi Tower
Plate mounting	Tool-less slot gap lock-up - 1.60 mm
Blanket cylinder lock up	Reel Rod type narrow gap lock up with Bearer rings - Standard
Register controls:	Motorized Lateral ± 3.00 mm, Circumferential ± 1.50 mm, Unit-to-Unit phasing ± 3.00 mm
Bookline Folder	1:2:2:1 Jaw Folder with Quarter fold & D. P. Fold
Max No. of Webs	2 Nos.
Web Grammage	38 – 100 gsm
Drive panel	DC Drive with central PLC
Optionals	- T bar lock-up for blanket cylinders (without bearer rings) - 2 web printing provision on Tower - Stacked Unwind - Integrated Autopaster for Mono unit - Autopaster - Detachable shaft (Clutch) - Motorized cut-off compensators - Close loop register control

PRESS CONFIGURATIONS





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