

PICKWEL

Modular signature gathering machine with optional side stitching

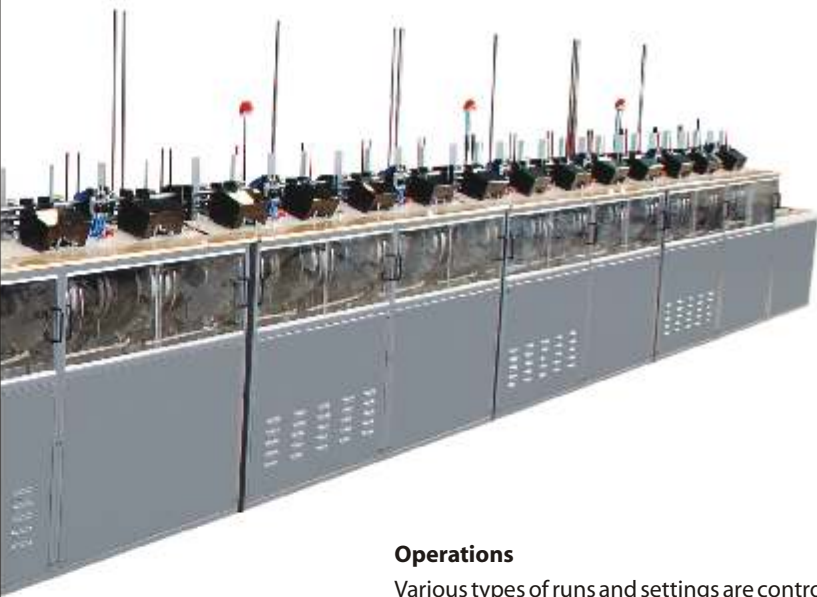
Expandable from 8 to 24 stations, with rejection station

PICKWEL



SALIENT FEATURES

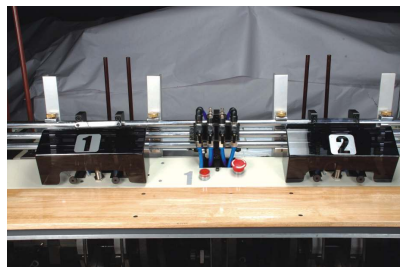
- A. Sturdy design incorporating latest safety features
- B. PLC controlled system; Operations through touch screen panel.
- C. Offline gathering - Base model of 8 stations with delivery unit, expandable up to 24 stations.
- D. Manual feed station – In case the number of signatures on a particular job is more than the number of gathering stations, the remaining gathered signatures can be fed into the manual feed station
- E. Suction and gripper type of separation and pulling of signatures from the feed stations
- F. Error detection protocols provided:
 - 1. Missing signature detection through optical sensors
 - 2. Multiple signature detection - Operator adjustable through electro-mechanical caliper
 - 3. Low pile level detection through proximity sensor
 - 4. Signatures misaligned either due to improper gathering or while transmission will also be detected
- K. If an error is detected the corresponding signatures are rejected into a rejection tray, without stopping the machine
- L. Capable of handling wide range of paper stock
- M. Can handle signatures of number of pages in any combinations
- N. Vertical zigzag delivery
- O. Optional side stitching



Operations

Various types of runs and settings are controlled through the touch screen control panel:

- a. Run** Puts the machine into operation
These runs are
 - (1) Manual: Checking of various functions are done without any error protocol
 - (2) Semi auto: Any run errors will lead to stopping of the machine. The warning from the corresponding gathering station will be given in terms of missing or double sheets
 - (3) Full auto: Fully automatic mode of run with sequential start & stop, error detection and subsequent rejection to the rejection tray
 (In sequential mode of operation, the gathering stations become operational one after the other, in the sequence of making a book)
- b. Stop** To stop the machine
- c. Jog** For inching
- d. Speed control** For varying the speeds of operation.
- e. Station select** We can make only those gathering stations operational as may be found necessary, based on the number of signatures
- f. Preset counter** For fixing the job quantity



Gathering Station



Signature Sensing



Hand Feed Station



Delivery

TECHNICAL DATA

Signature dimensions

Maximum	400 mm x 300 mm
Minimum	100 mm x 150 mm
	(special formats available on request)
Maximum pile height	250 mm

Speed

Maximum mechanical speed	5000 cycles per hour
Maximum output with stitching	3500 books per hour

Stitching

Book thickness	3 mm to 18 mm
Distance between stitches	70 mm to 100 mm

Electrical

Power	17 HP for 12 station gatherer, additional 3 HP for every module
Electric supply	400-415 V, 3 Phase 50 Hz

Floor Plan

