

High Performance machine series

Automatic In-line sewing machine

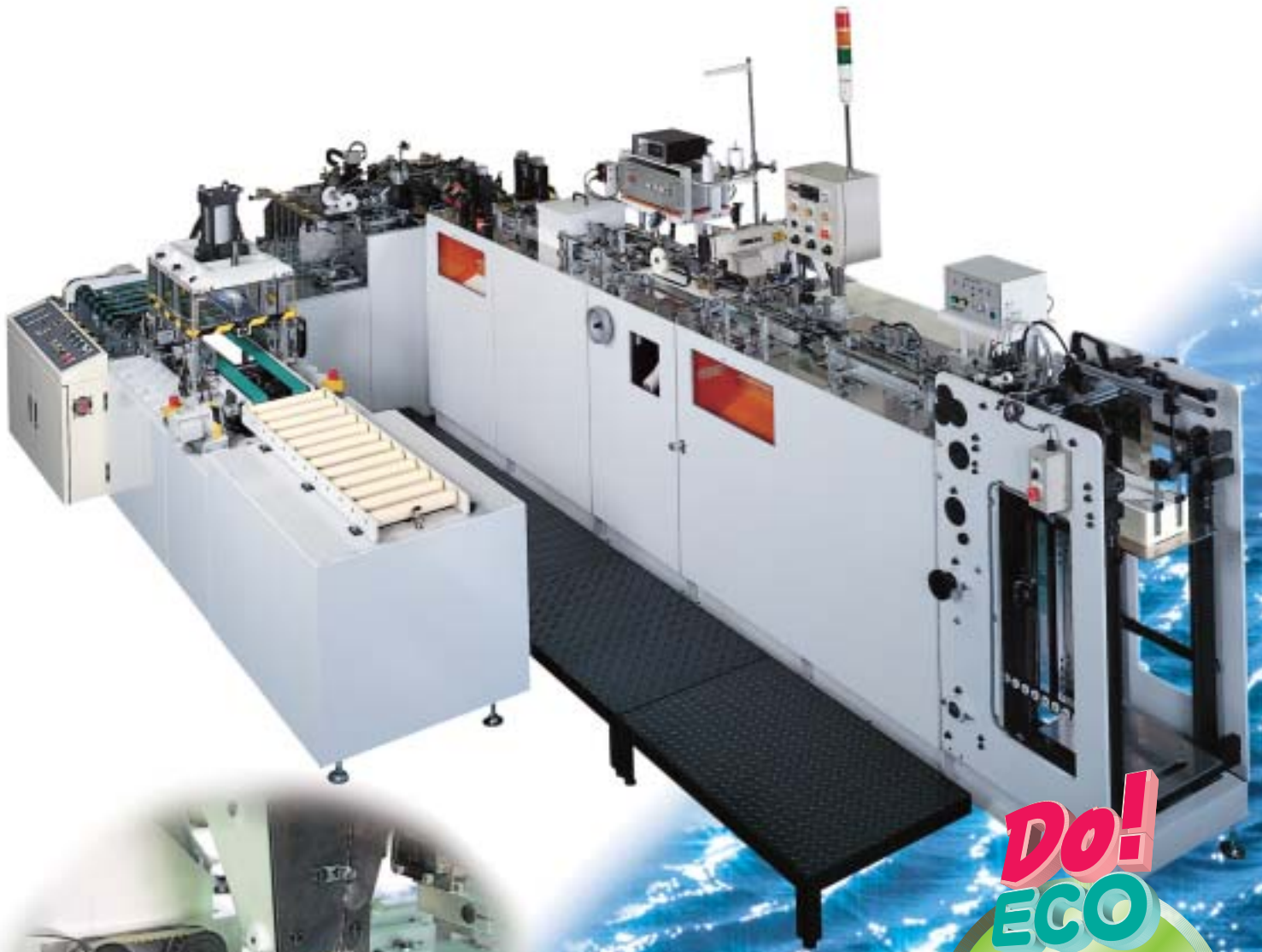
# S-500S

**SUGA**  
SUGA co., Ltd.

*Automated In-Line Sewing  
Machine with high operability  
and processing of  
“130 books per minute.”*

〈Feature〉

- Designed specially for bank passbooks and full automatic from sewing to finishing process.
- High level sewing precision and function keeps maximum serviceable process.
- Power saving and safety control are highly performed in the design.
- Variety of sensors are installed for safety and security performance.



**Do!**  
**ECO**

SUGA full automated in-line sewing machines are designed under ecological concept like SAVE EARTH.

# Automatic In-line sewing machine S-500S

The model S-500S is a sewing machine mainly designed for bank passbooks. It covers automatically the processing steps from book sheet feeding, sheet-number detecting, sewing thread detecting and pressing.

## OUT LINE / FORMATION AND FUNCTION

### A FEEDER

A pack of book sheets is proset and fed with sucker to convayer.



### B SHEET NUMBER DETECTING

The sensor detects the specified number of sheet while they are being conveyed. The detected value through the sensor is checked with the preset value for ensuring the sheet number of each pack. This features better production yield.

### C HIGH SPEED SEWING OF PASSBOOKS

Upper and lower gripping roller ensures stable pitch feed and no scratch on the sheet. The pitch can be adjusted by a change of gear. The sewing unit is driven by AC servo motor and then the speed control and stopping position can be easily done.

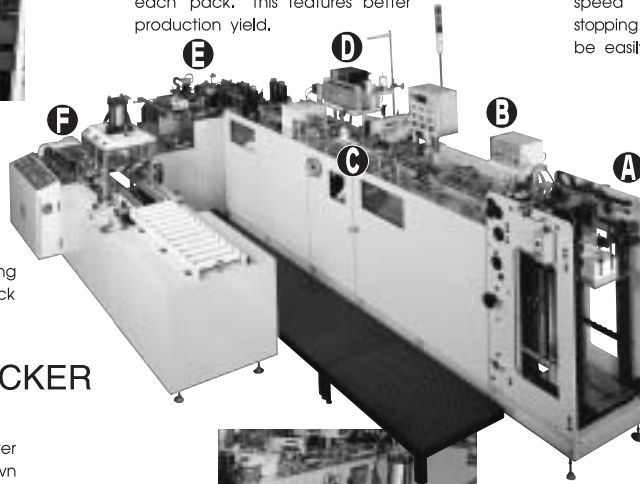


### D SEWING THREAD DETECTING

Optical detection for sewing thread is censored by black light irradiation.

### E THREAD STACKER UNIT

Pneumatic controlling cutter punches and finishes sawn thread.



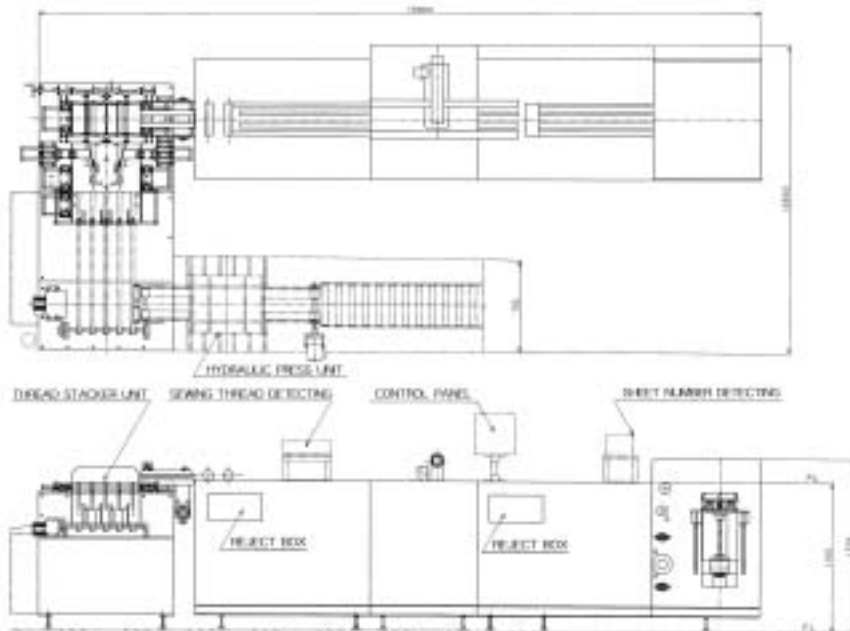
### SEWING UNIT



The sewing unit is made as a cassette type for easier replacement.

### F HYDRAULIC PRESS UNIT

The stacked passbooks are pressed with max.10 tons weight. The pressed and flat pile of books are easily handled for further process.



## SPECIFICATION

Main power voltage /  
200 VAC(+/- 10%) 50/60Hz 3 phase

Power consumption /  
5.5kw 30A

Bank Passbook sheet /  
Less than 100g/m<sup>2</sup>, Fine paper,  
less 10 sheets per a pack.

Productivity /  
Max. 130 packs per minute

Paper size /  
Max. 220 x 480mm Min. 150 x 350mm