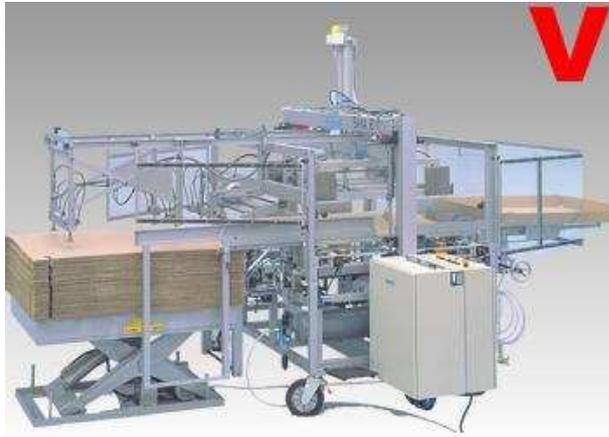


Fully Automatic Tray Stapling Machine SHA 81- Standard

Lifting - feeding - shaping - stapling - reversing - ejecting - handing over



for shaping and stapling flat carton blanks of solid or corrugated cardboard to trays (bottoms or lids).

For central application or integrated into a packaging line.

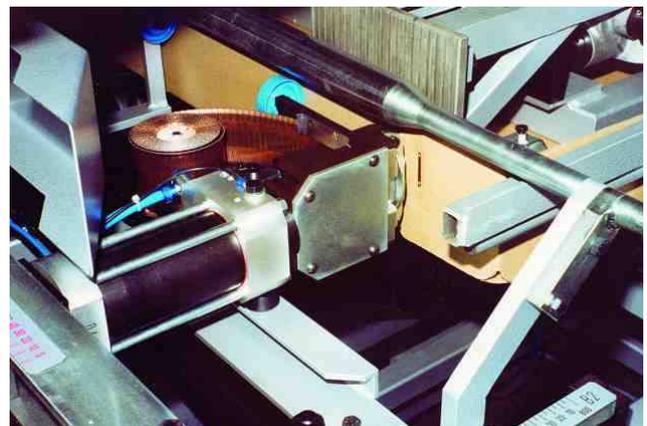
Output 8 - 10 bottom trays / minute.

A pile of carton blanks is positioned on a lifting table upstream.

Automatic functions:

- > lifting and feeding of carton blanks.
- > shaping to carton trays
- > stapling the 4 flaps
- > ejecting trays into transfer device for handing over or lifting up.

Additional functions optionally as to turning bottoms to tray lids; Pushing over and centring in a transfer station.

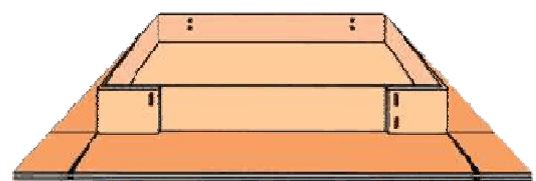
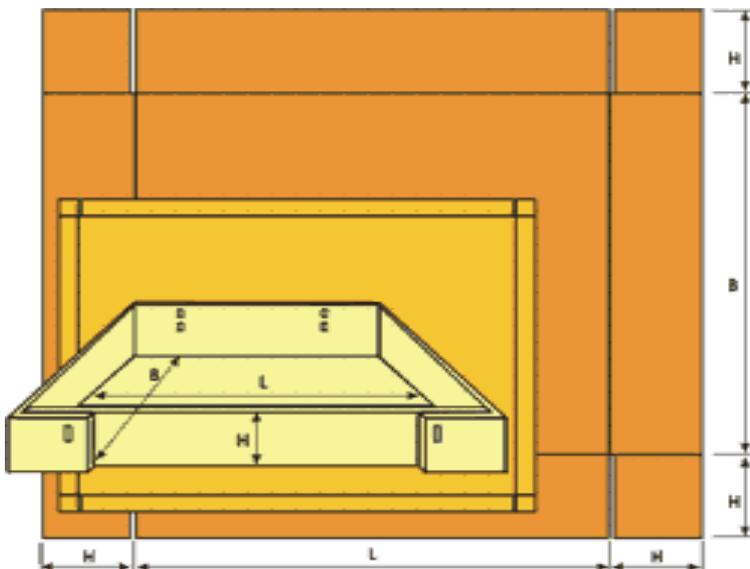


Adjustable to the following tray sizes:

Length: 1140 - 1230 mm
Width: 800 - 1040 mm
Height: 50 - 240 mm

Up to 120 mm height double stapling.

(other sizes upon request)



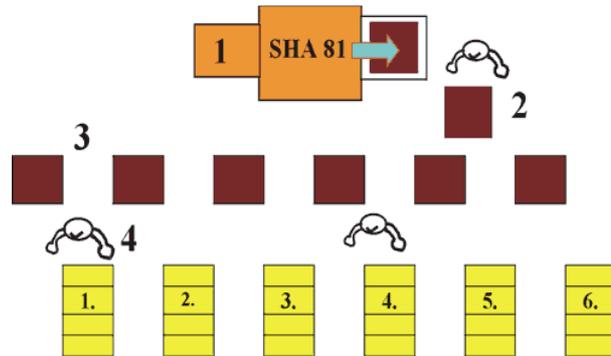
Central Application of Stapling Machine SHA 81

Because of the high output of 8 - 10 trays/minute as well as the quick adjustment to a different tray size, the machine can feed 6 - 8 packaging lines simultaneously.

Situation up to now: 1 person at every line who is responsible for carton handling, feeding and supervising one single packaging line.

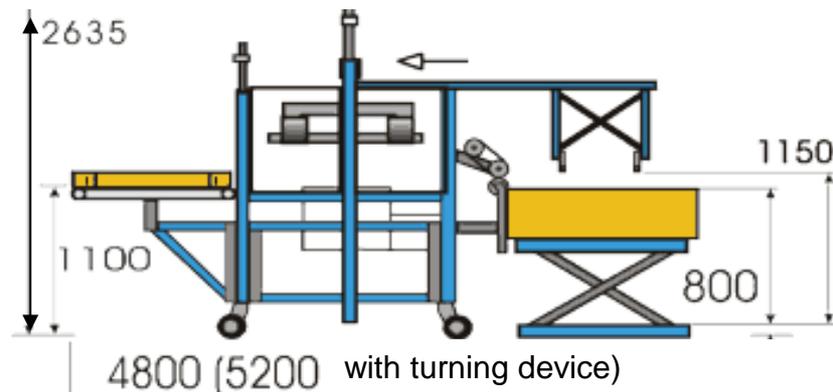
SHA 81 Central Application: 1 person (2) for carton handling and stockpiling (3) for 6 – 8 lines.

1 person (4) responsible for feeding and supervising 2 – 3 lines!



1. Fully automatic processing of carton trays with SHA 81
2. Supply of 40-50 carton trays to the actual line by hand carts.
3. Stockpile at the actual packaging.
4. 1 person responsible for supplying and supervising 2 – 3 lines.

Result: Approximate 9 persons can be set free in a 3 shift-work which means amortization of the stapling machine after approx. 3 months!


Technical Data: Fully Automatic Stapling Machine SHA 81

for central application or integrated into a packaging line

Output / minute: 8 – 10 trays
 4 stapling heads for coiled staples B 36 – 60 (B 36 -70)
 Loading capacity/stapling head 4000 coiled staples

Reloading time for 1 coil less than 1 minute
 Coiled staples 36 mm staple crown
 Staples to be used for solid, single + double corrugated
 Adjustment to other tray size 2 – 3 minutes

Power source: electro/pneumatic 415 Volt, 50 Hertz, 4-6 bars
 Control: SPS SIEMENS SPS S7
 Equipped with 4 castor wheels for easy moving
 Equipped with 20 l pressure tank to compensate pressure oscillations

High pick-up/ejection side 1150 mm / 1100 mm
 Useful height: lifting tabel/pick-up 800 mm
 Dimensions machine L x W x H 4800 (5200) x 2708 x 2635 mm

G) SHA 81 / Reversing Device

A specially designed version provides an output station where the tray bottom can additionally be turned to a tray lid.

According to programming e. g. 6 tray bottoms can be produced and then 1 tray lid. In case the lid is supposed to be lifted off the lid surface can be supported additionally.

Flap folding to the outside or upon request to the inside.

Also possible: flaps for flattened edges.



K) SHA 81 Handing Over Station

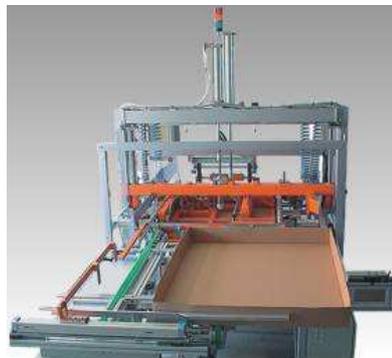


**SHA 81 / Standard
Central Application.**

Ejection of trays (bottoms or lids)

- a) continuous ejection or
- b) ejection at the touch of a stop.

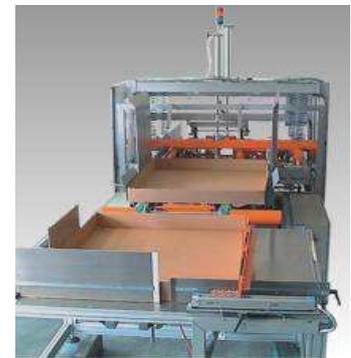
Ejection at the touch of a stop effects that always one tray is placed in readiness. After removing this tray the next carton tray is immediately conveyed into the output station and kept ready.



**SHA 81 / Centring
Integrated application.**

Ejection of trays from the output station. Tray will be centred additionally.

The tray will be lifted from this centred position and handed over to the palletizer. (Lifting does not belong to the scope of delivery)



**SHA 81 / Reversing device
and handing-over station**

with centring ejection of trays into a handing-over station.

Trays (bottoms or lids) will be centred there additionally.

The tray will be lifted or pushed from this centred position and handed over to the palletizer. (Lifting does not belong to the scope of delivery)

I) SHA 81 with Pallet Loading Station

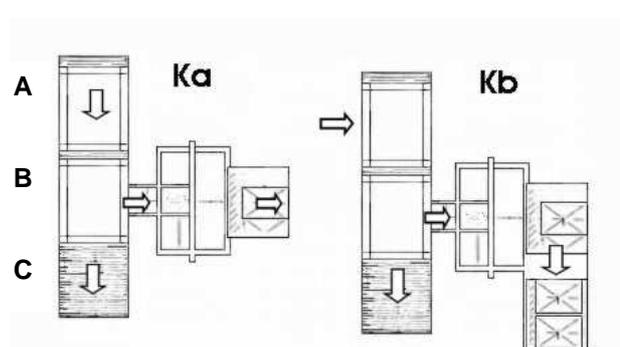
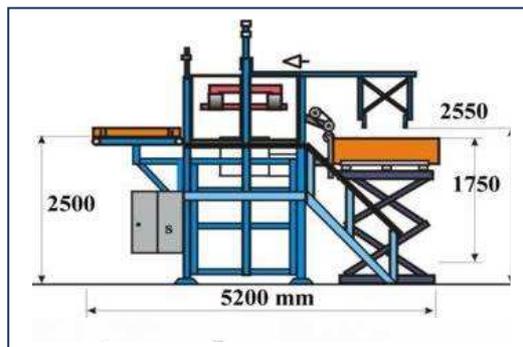
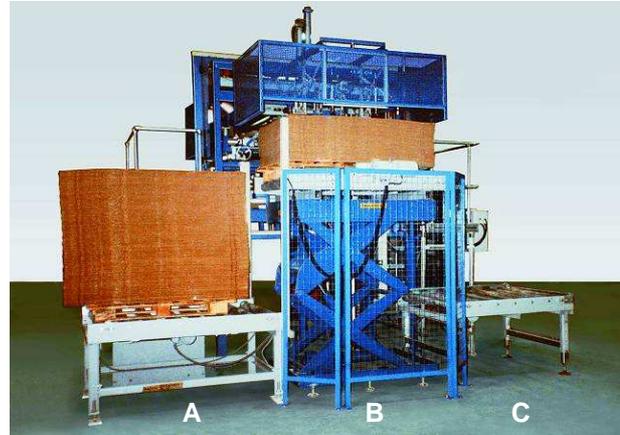
For processing large quantities of trays of the same size it is advantageous to put a pallet loading station upstream.

In that case the stapling machine needs an elevated structure. An input height of 2550 mm would provide a useful height of 1750 mm. Output height: 1750 or 2500 mm or others optionally.

A: Pallet loading station with roller conveyor

B: Lifting table (single or double scissors) with roller conveyor

C: Station for empty pallets with roller conveyor
Pallet loading station from the front – loading from the right or left – or cross position with loading from the left (ill.)



SHA 81 with pallet loading station and double scissor lifting table



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**Fully Automatic
Stapling Machine
SHA 81 Standard**

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Pos. A 3**

1001-312

SHA 81 / Polyvalence

Adjustable from EURO to half-EURO-size

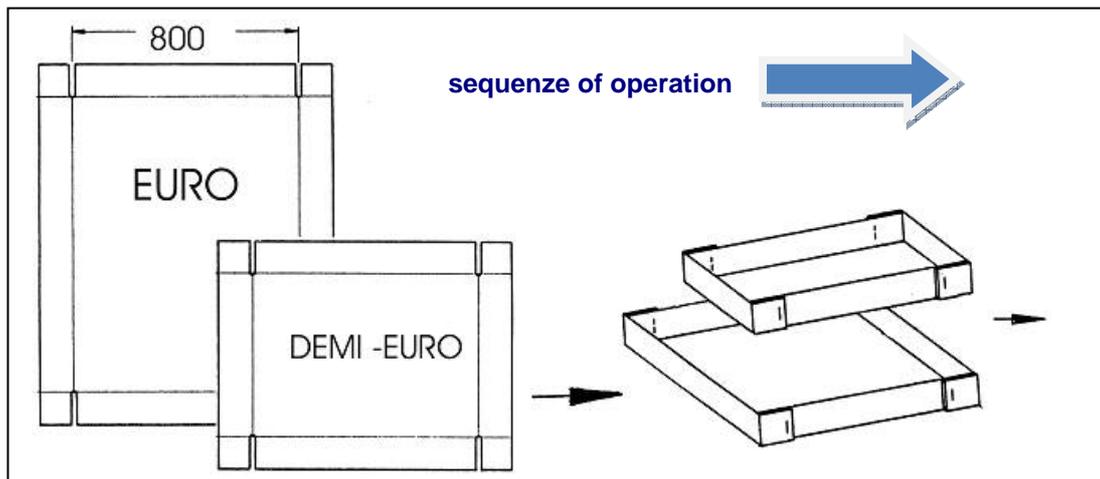
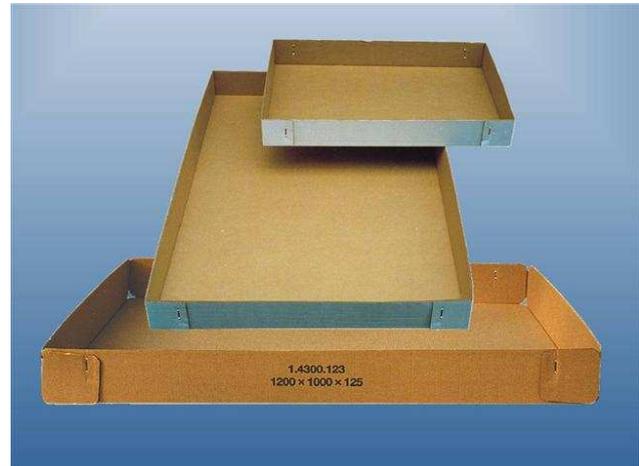
A specially designed version processes both sizes of carton trays:

EURO-size 800 x 1200 mm as well as half EURO-size 800 x 600 mm.

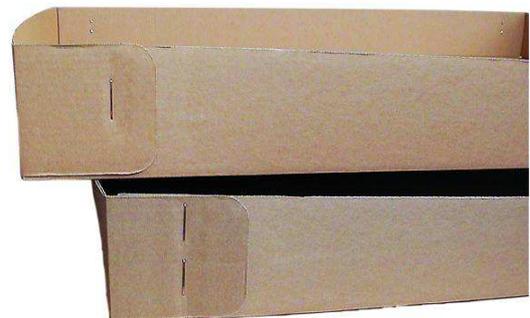
It has to make sure that the cut mainly of the larger carton blanks provides flap folding at the 800 mm side, i. e. at the smaller side.

The flap folding of the half trays is also at the 800 mm side.

Flap folding to the outside or upon request to the inside. Also possible: flaps for flattened edges.



carton flaps with flattened edges.



single and double stapling