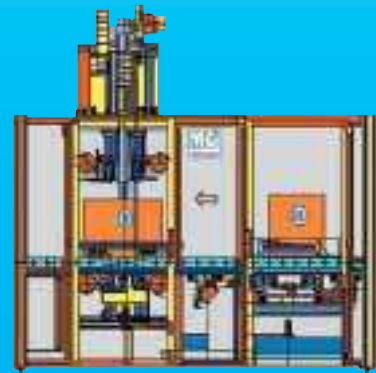




Carton Stapling Technique



Stapling System



Staple your shipping cartons so that your important merchandise arrives safely!

Stapling is the low-cost alternative for sealing cartons!



Stapled cartons are dimensionally stable and provide better stackability.



Types of cartons

1. Folding boxes with adjoining bottom and top flaps.
2. Folding boxes with overlapping longitudinal flaps.
3. Telescope-type cartons.
4. Carton trays – bottoms and lids.
5. Push-in lids in display boxes.

The staple legs lie flat and the tips are bent back into the cardboard.

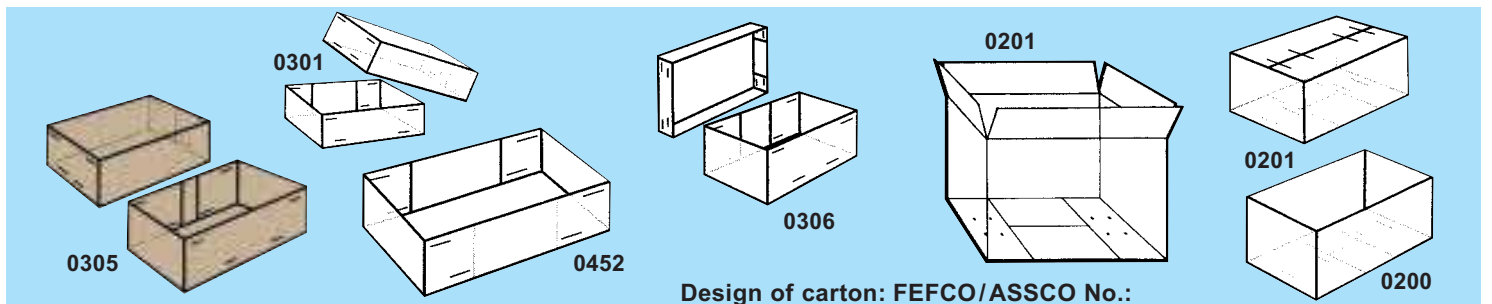
This means safety for people and contents. All cardboard layers are firmly stapled which means a high level of stability.

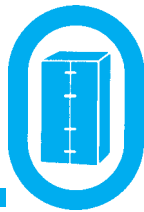
The **MG**® Stapling System provides staples for all carton qualities.



Solid, single-corrugated, double-corrugated, triple-corrugated cardboard

Staples are clinched on a clinching anvil when bottom-stapling empty folding boxes, stapling telescope-type boxes, carton trays, etc.





Carton Stapling Technique



Advertising imprints are not defaced when cartons are stapled with MG®.

The MG® Stapling System for fast, cost-effective and simple packing.



Lead sealing effect, i.e. highly theft-proof.



Safety stapling MG® unaffected by moisture or heat.




In many cases, a more cost-effective type of cardboard can be used when stapling MG®.




No additional stitching holes which would impair stability.


Stapling images



special stapling
across flap joint



parallel stapling
cross stapling

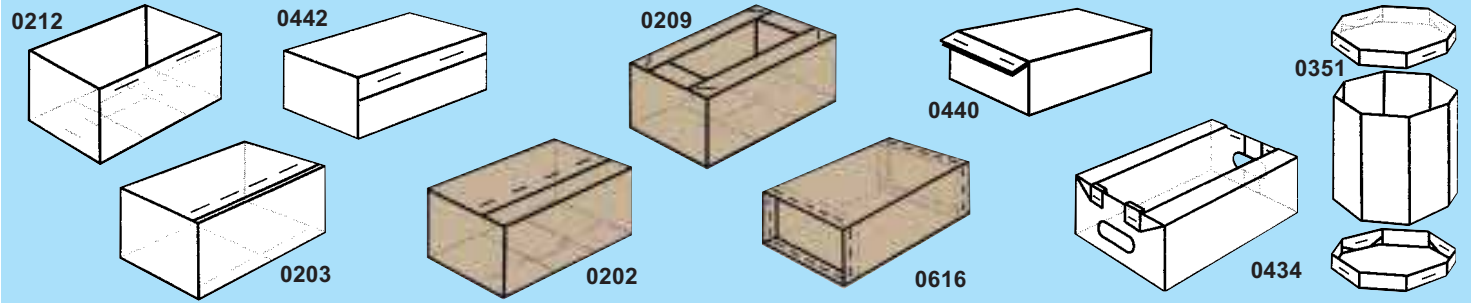
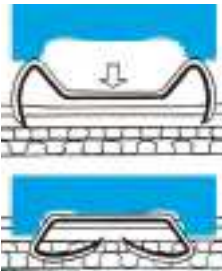


length stapling
across flap joint

Blind stapling MG® is also possible for sensitive contents, such as fruit, textiles, etc. The staple legs clinch within the corrugated section of the under board.



Blind stapling is applied when the lids of filled folding boxes made of corrugated cardboard are stapled. The staples are automatically clinched – without clinching anvils – within the corrugated section of the under board without penetrating completely through.



Carton Bottom Stapler PERFECTA "Q"

Used for bottom stapling empty folding boxes with overlapping flaps or for very strong cardboard.



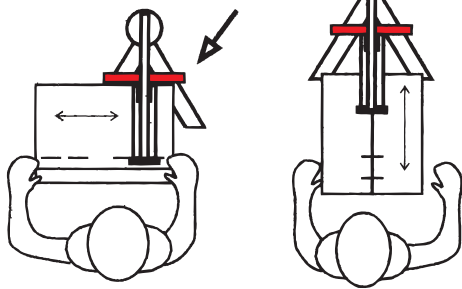
Q 323

PEQ 323
pneumatic



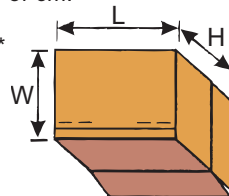
PEQ 323
Transversally mounted stapling head and a rapidly adjustable carton guide stop permit precise stapling parallel to the edge of the box.

Carton guide stop



Models: Cross stapling with 1 stapling head for maximum box sizes of cm:

Foot operation:
L 100 x W 67 x H 70*
including one carton flap
Q 323, Q 523, Q535



Pneumatic:

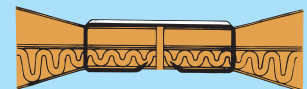
With maintenance unit, 4 - 6 bars
L 100 x W 67 x H 85* incl. one carton flap
PEQ 323, PEQ 523, PEQ 535

*H available with 10 - 40 cm higher pillar.
Capacity: 300 folding boxes/hour

Depending upon the model and type of cardboard, staples with 1.5, 2.0 and 2.4 mm wire widths and leg lengths of 12 - 35 mm can be used.

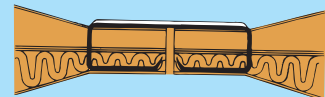
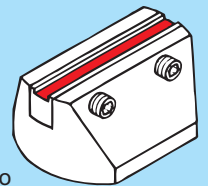


PERFECTA staplers can be fitted with a reversible anvil.



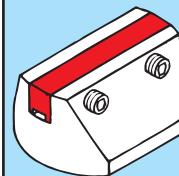
Penetrating stitch

(Standard model)
Staples bend around the cardboard, the legs lay flat and the tips are bent back into the cardboard. No risk of injury or damage to the box contents.



Blind stitch with reversible anvil*

Staples bend within the lowest cardboard layer.



*Optional extra

Carton Bottom Stapler PERFECTA "L"



Stapling System

Recommended for bottom-stapling empty folding boxes made from solid or corrugated cardboard in frequently changing sizes.



L 323 D twin heads



PEL 323 pneumatic single head

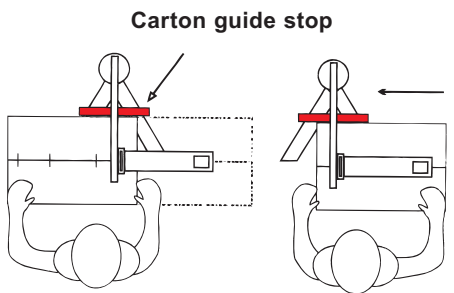


L 323 Single head: Laterally mounted stapling head and a rapidly adjustable



Height including 1 flap

carton guide stop permit precise stapling over the carton flap joint.



Carton guide stop

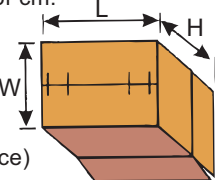
Models: Longitudinal stapling with 1 or 2 stapling heads for maximum box sizes of cm:

Foot operation:

L 100 x W 68 x H 70* incl. one carton flap

L 323 single head

L 323 D twin heads (90 mm staple clearance)



Pneumatic:

With maintenance unit, 4 - 6 bars

L 100 x W 67 x H 85* including one carton flap

PEL 323 single head

PEL 323 D twin heads (90 mm staple clearance)

*H available with 10 - 40 cm higher pillar.
Capacity: 300 - 350 folding boxes/hour

L 323 D
Twin heads:
2 stapling operations simultaneously



90 mm staple clearance:
No aiming required for stapling.



Bottom stapled boxes keep their shape and have better stackability.



Very long boxes can be stapled without having to be turned.

Depending upon the type of cardboard, four different large sized staples can be inserted without adjustment.

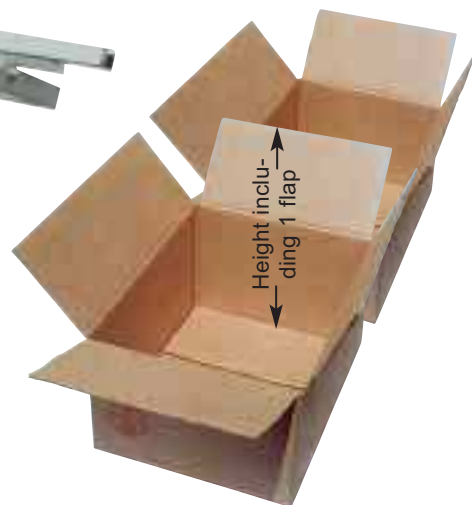


Carton Bottom Stapler RECORD, KBH 75

RECORD and KBH 75 staplers show their advantages for bottom-stapling large numbers of empty folding boxes which have the same size.



P 323 SP
pneumatic

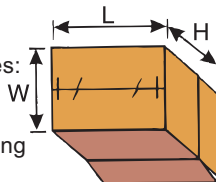


Height including 1 flap

Very time saving with 4 to 8 simultaneous stapling operations. The folding box is assembled by hand and placed onto the

RECORD staplers with 4 stapling heads. Two staples automatically placed longitudinally, 2 (or more) at an angle of 45° exactly over the carton flap joint.

Standard model I
for maximum carton sizes:
Length: 520 mm
Width: 600 mm
Height: 700 mm* including one carton flap



Resetting time
for a different carton size approx. 1 minute
Capacity: 400 - 500 folding boxes/hour

Model:
RECORD P 323 SP pneumatic with maintenance unit. 4 - 6 bars.
Stapling release by 2-hand valve.
Measurements: 95 x 134 x 51 cm, weight 95 kg.

Depending upon the type of cardboard, four different large sized staples can be inserted without adjustment.



Automatic bottom stapler for folding boxes KBH 75
fitted with two B 36-60 stapling heads for coiled staples.

The operator sets up the box and folds the rear cross flap. The box is then pushed between the conveyor belts. Further flap folding, transportation, stapling and ejection are automatic.
Control system: SPS, S7 Micro.
Capacity: 1400 - 1800 folding boxes/hour.
Conversion time to a different box size maximum 2 minutes.



clutching table. The stapling bar is pulled across to stop dogs so that it is over the carton flap joint. 4-8 automatic stapling operations can now be executed. The clutching table is adjustable both longitudinally and laterally and ensures firm support and a correct shape for the box.

RECORD II for carton lengths up to 650 mm
RECORD III for carton lengths up to 720 mm



For Closing Filled Folding Boxes BLIND STAPLER TOP

Blind Stapler TOP

Staplers for top-stapling filled folding boxes made of corrugated cardboard.

Two basic models available:

TOP B primarily for single-corrugated cardboard. TOP B staples with a leg length of 8 - 15 mm.

TOP SP primarily for double-corrugated cardboard. TOP SP 11 and TOP SP 18 staples.



TOP P pneumatic. The pneumatic TOP P blind stapler and TOP EH one-handed blind stapler means that the operator has one hand free to shape the box.

Model	TOP B or TOP SP blind stapler
TOP	For two-handed operation, 2.3 kg
TOP EH	For one-handed operation, 2.4 kg
TOP P	For pneumatic operation, 4 - 6 bars, 2.9 kg
Loading capacity: 120 TOP staples	



The TOP P and TOP EH blind staplers also mean that empty boxes can be bottom-stapled. Staple from inside to outside.



The TOP two-handed stapler means that cartons can be stapled in one operation. The stapler does not need to be turned round at the end of the box.



The staples are automatically clinched within the corrugated section of the under board without clinching anvils, i. e. no damage to the contents. There are no additional stitching holes next to the staple.

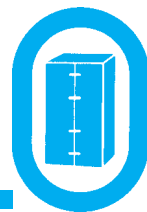
TOP SP 11 for single-corrugated cardboard. **TOP SP 18** for double-corrugated cardboard.



Pneumatic TOP P blind staplers should be suspended above the packing table. The following are available:
 B 2/4 balancer
 DS 35 spiral hose for extended length of 3.5 m.
 DS 75 spiral hose for extended length of 7.5 m.
 W/EINHEIT maintenance unit for purely pneumatic operation (4 - 6 bars).



MORI staple remover. Folding boxes with the staples removed can be re-used.



For Closing Filled Folding Boxes MEPA, JUMBO

Universal mechanical or pneumatic stapler
MEPA 18 + 22 for closing filled boxes made
from single or double corrugated cardboard.

King-sized staples are bent onto anvils.

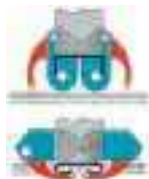
Penetration depth adjustable.

Loading capacity: 100 staples.

Weight mechanical stapler 1.74 kg

Pneumatic stapler MEPA 18 P 1.98 kg, 4 - 6 bars

Pneumatic stapler MEPA 22 P 2.16 kg, 4 - 6 bars



MEPA
mechanical



MEPA 18 P



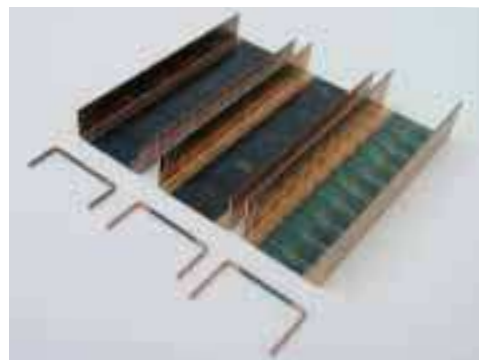
MEPA 22

**JUMBO 32 and
JUMBO 38**

Heavy duty cardboards need a heavy-duty carton stapler.

Model	Suitable for staples	
MEPA 18	mechanical	B 5/8, B 3/4
MEPA 22	mechanical	B 3/4, B 7/8
MEPA 18 P	pneumatic	B 5/8, B 3/4
MEPA 22 P	pneumatic	B 3/4, B 7/8

Soundproofed. Clinching anvils return automatically after each stapling operation.



35 mm crown size, leg length:

B 5/8 15 mm for single corrug. cardboard

B 3/4 18 mm for double corrug. cardboard

B 7/8 22 mm for strong double corrugation



MEPA
pneumatic

The **JUMBO** is designed for stapling the strongest corrugated cardboard. Heavy-duty staples with leg lengths of 32 or 38 mm to suit the cardboard strength give high stability to stapled cartons.

The **JUMBO** can be used for (A) blind stapling or (B) a penetrating stitch. King-sized staples with crown sizes of 32 mm are anchored into the carton with anvils. The stapler can be adjusted to the penetration depth to suit the cardboard.

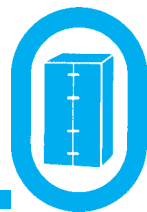
Technical Data:

JUMBO 32	for staples 32/32
JUMBO 38	for staples 32/38
Air pressure	4 - 7 bars
Air consumption	7 NL/stapling
Loading capacity	100 staples
Weight	8 kg
Dimensions: mm	345 x 465 x 190
With connecting nipple	R 1/4" + quick release coupling

Type	Leg length
32/32	32 mm Double and triple-layered corrugated cardboard
32/38	38 mm Triple-layered corrugated cardboard



JUMBO: For double and triple-layered corrugated cardboard



For Closing Filled Folding Boxes MEROLOCK 3

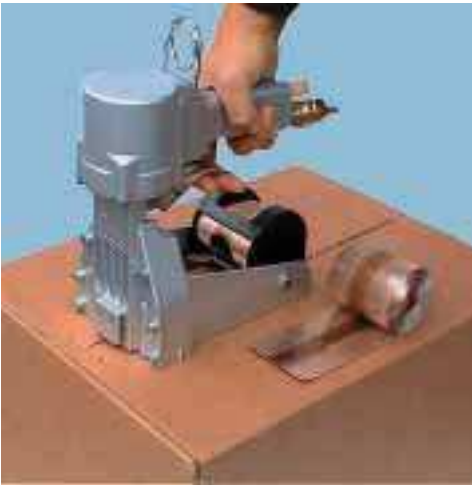
Top closing stapler MEROLOCK 3 for 1000 coiled staples

This soundproofed top closing stapler is used wherever filled folding boxes made from corrugated cardboard are to be closed efficiently.



The **MEROLOCK 3** is light, easy to use and compact. Its reliability and high accessibility are outstanding. Its wearing parts have a long serviceable life because the clinching anvils return instantaneously after each stapling operation. They are made from tempered steel and especially hardened which practically eliminates the risk of breakage.

Ten times less frequent recharging as compared to normal staplers.



Technical Data:

Air pressure: 4 - 6 bars
 Air consumption: 1.3 NL
 Stapling/min max: 20
 Air supply connector: 1/4" = 6 mm
 Weight: 2.76 kg
 Staple magazine: 1 coil = 1000 staples
 Staple type: CR 1/34
 Dimensions: L x W x H: 215 x 110 x 210 mm

Adjustable penetration depth to match the type of cardboard.

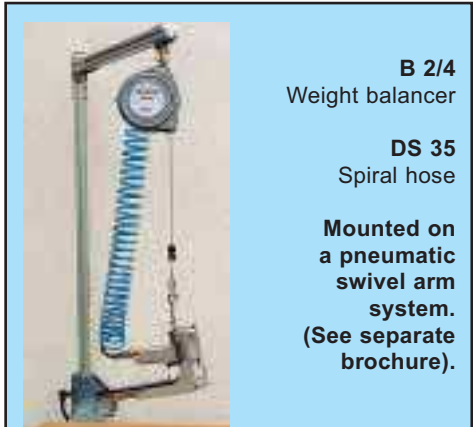


Loading capacity: 1000 coiled staples, that means ten times less frequent recharging as compared to normal staplers – this saves a considerable amount of time.

Coiled staples CR 1/34.



We recommend our LRS and LRW Stapling Heads each with 5000 coiled staples for stationary use in stapling devices. (See page 16).



B 2/4
Weight balancer

DS 35
Spiral hose

Mounted on a pneumatic swivel arm system. (See separate brochure).

TOP, MEROLOCK 3, MEPA + JUMBO should be suspended above the packing station.

We recommend the following accessories:

B 2/4 (for TOP, MEROLOCK 3, MEPA + MERO)	Balancer (weight compensator) adjustable for tool weights of 2 - 4 kg
B 8/10 (for JUMBO)	Balancer adjustable for tool weights of 8 - 10 kg
DS 35 3.5 m DS 75 7.5 m	Compressed air spiral hose with connection units
W/EINHEIT	Maintenance unit

Side Arm Staplers ST Q 270, 323, 523, 535

Stapling machines ST Q (cross stapling) and ST L (longitudinal stapling)

with stapling arm for mechanical or pneumatic stapling carton blanks, carton carrying handles, insert lids, cardboard blanks, trays etc.

Stapling cardboard blanks means:

- Inexpensive purchase of cartons
- Space-saving storage of cartons
- Economic, speedy manufacture of boxes to suit every need.



ST QE 535 P
pneumatic

Special model with a column which is 400 mm higher. Working height = 1350 mm. Staples large carton trays.

ST QE 270 P single head, pneumatic



ST QE 270 P twin heads.
70 mm staple clearance.
Two staple operations simultaneously.



ST QE 270 P
pneumatic

ST Q 270
foot operated

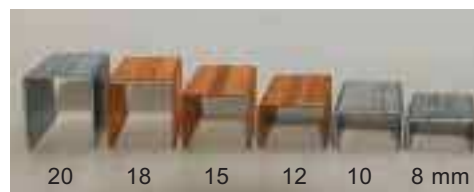
Model	Series	MG [®] staples with:		
		Wire mm	Crown mm	Leg length mm
ST Q 270	MG [®] 100	1.1	20	8 - 20
ST L 270	MG [®] 100	1.1	20	8 - 20
ST Q 323	MG [®] 323	1.5	36	12 - 23
ST Q 523	MG [®] 523	2.0	36	15 - 23
ST Q 535	MG [®] 535	2.4	36	30 - 35

Model	A: stapl. arm/ B: upper edge throat depth clinching anvil*	
	ST Q 270 (+D)	345 mm
ST Q 323 - 535	350 mm	830 mm
ST QE 270 P	350 mm	930 mm
ST QE 270 - 535 P	330 mm	850 mm

*100 - 400 mm higher column available



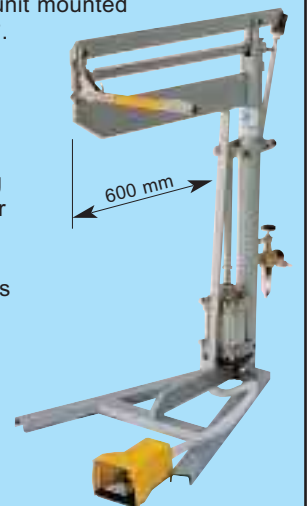
Depending upon the type of cardboard, staples with different heights and lengths can be used. MG[®] 100 series (8 - 20 mm leg lengths).



ST L 270 series

Longitudinal stapling model with stapling unit mounted rotated by 90°.

Stapling using a foot pedal or a pedal valve for pneumatic staplers leaves both hands free to handle cartons.



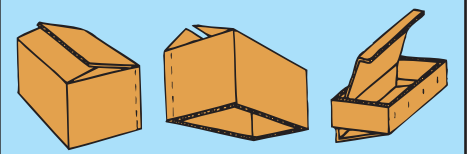
Longitudinal stapling models

ST L 270 Foot operated

ST LE 270 P Pneumatic

ST LE 270 P/600* Pneumatic

*Special model with a 600 mm stapling arm. Pneumatic staplers have a maintenance unit.



Industrial Stapling Pliers 130

Universal hand-operated staplers for all stapling jobs, such as carton blanks, telescope-type boxes, slide lids, carton trays etc.



130/1916 P
pneumatic

130/1916
hand-operated

Practical example: from carton blanks to transportable telescope-type boxes



Bottom: flap stapled outside



Lid: flap stapled inside. Fill.



Staple together bottom and lid.



Available models with 19 cm throat depth:

130/1916
hand-operated, weight 1550 g
dimensions: 265 x 35 x 200 mm

130/1916 P
pneumatic, 4 - 6 bars

130/1916 PU
pneumatic with reversed trigger

130/1916 PUX
dto. with extended magazine*
air consumption: 0,38 NL/stapling
dimensions: 260 (480*) x 44 x 170 mm
weight: 2050 (2220*) g
loading capacity: 100 (250*) staples

130/2516 P
special version with 25 cm throat depth



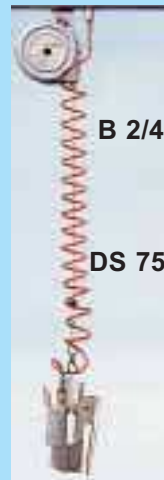
Solid, single- and double-corrugated cardboard can be stapled using MG® 130 staples with 10, 12 and 16 mm leg length (crown-size 13 mm).



By-pass legs of MG® staples ensure a high level of strength. The legs lie flat, the tips are bent back into the cardboard: safety for people and contents.



130/1916 PU



130/1916 PU

Pneumatic stapling pliers are also available with a reversed trigger so that stapling is possible with the throat pointing downwards.



130/1916 PUX
with extended magazine for 250 MG® staples.

Accessories:

DS 35 Spiral hose, max. length 3.5 m
DS 75 Spiral hose, max. length 7.5 m
B 2/4 Balancer up to 4 kg weight, rope-length up to 2 m.

Swivel arm systems for wall and table installations as well as low noise compressors upon request.

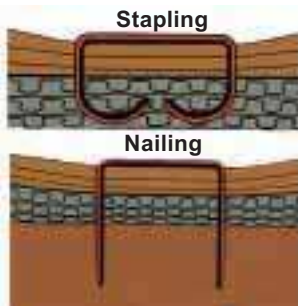
Long-handle Staplers BL 323, 535, TACKER 3200/50W16

Long-handle staplers are used to close the bottoms of oversized folding boxes and for nailing such boxes onto wooden pallets. These mechanical staplers are easy to use, and independent of all energy sources.



We recommend using a steel panel to protect the floor when stapling.

The long-handle stapler is placed onto the cardboard. The staple is clinched on the steel panel or driven into the wood by pushing the handle.



Staples fix the folding box onto the wooden pallet so firmly that it does not slide at all during transportation.

The BL 323 is recommended for hardwood pallets.



Long-handle staplers staple blind, the staple is clinched within the lowest cardboard layer.



Technical Data for BL 323, 523, 535:

Dimensions: 150 x 30 x 8 cm

Weight: 3.7 kg

BL 323: used for regular single and double-layered corrugated cardboard.

Staples: Wire width 1.5 mm
 Crown: 36, leg lengths 15 - 23 mm
 Bottom-stapling: MG[®] 315, MG[®] 320, MG[®] 323
 Nailing: M 315, M 320, M 323

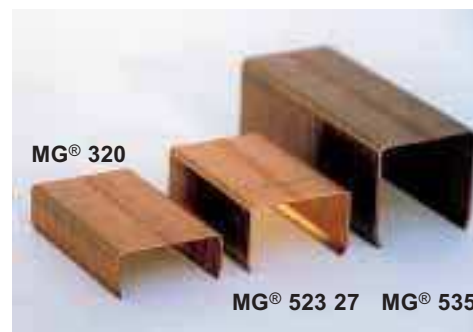
BL 523* used for double-layered corrugated cardboard

* = BL 323 with front plate for staples MG[®] 523

Staples: Wire width 2.4 mm
 Crown size: 36, leg lengths 20 - 23 mm
 Bottom-stapling: MG[®] 520 2/4, MG[®] 523 27
 Nailing: MG[®] 523 8, MG[®] 523 12

BL 535 used for strong double and triple-layered corrugated cardboard.

Staples: Wire width 2.4 mm
 Crown: 36, leg lengths 30 - 35 mm
 Bottom-stapling: MG[®] 530, MG[®] 535
 Nailing: M 530, M 535



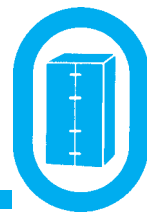
3200/50W16 pneumatic tacker.

Well suited for fastening wood, strong cardboard, roofing felt, clamping plates. Weight 2.05 kg, magazine: 150 staples. Staples 19 - 45 mm leg length. Crown 23.7 mm.

POGOSTICK Holding bar with double grip and trigger.

Length 800 mm, weight approx. 2.3 kg





Stapling Hammers, Tackers and Stapling Pliers

Pneumatic Plier 3200/38 ZH for stapling heavy duty cardboards.
Hand-operated Staplers for universal operations. Easy to use.

Stapling hammers and tackers for special stapling and nailing applications.



3200/38 ZH
pneumatic



Tacker R1B:
pneumatic,
for staples
DUO 50/8 - 14 mm
Weight: 780 g
Air pressure:
4 - 6 bars



RAPID 34:
hand-operated
tacker for staples
11/6 - 14 mm for
nailing card-
board, plastic
foil, insulating
material, carpets
etc. onto wood.
Chromium-
plated, 870 g.
Striking force
adjustable.



A11 for plastic
foil, insulating
material, textiles,
paper.

Hammer	15	H 48	A 11	140
Weight (g)	1500	1200	950	1080
Staples	MG® 100	K 48	11	11
Crown size	20	9.4	11	11
Leg length	8-15	5.8	6-10	10-14

Stapling Hammer H 48 for nailing fish bone staple onto oiled and bituminous paper.



Large Stapling Hammer 15:
for nailing cardboard, plastic foil, textiles onto wood as well as bottom-stapling of empty folding boxes on a rilled steel plate.



Stapling Hammer 15



Stapling Plier 31 in commercial use for sealing and stapling sealing bags, cartons, sacks and foils.

Model	Throat depth mm	Throat width mm	staples leg length mm
ZANGE 31	65	14	73/6, 8, 10, 12
ZANGE 31/4	65	14	73/6, 8, 10, 12
JUWEL	28	6.5	JUWEL NK 4
ELJU	45	10	ELJU 5, 7

Stapling Plier 31/4 with U-shaped sword for stapling bulges, lids of pasteboard tubes or plastic buckets etc.



31/4

3200/38 ZH: pneumatic Stapling Plier for strong cardboard up to a max. thickness of 30 mm. Staples 19 - 38 mm leg length. Crown size 23.7 mm. Throat depth 240 mm. Weight 3.9 kg.



TGR Tabletop Stapling Devices, RAPID Electric Tabletop Staplers



Stapling System

TGR Pneumatic tabletop stapling devices with one or several Stapling Heads A, B, C or D for stapling cardboard, paper, leather, plastic, blister packs, etc.

TGR 1/D 13 tabletop stapling device with one or several stapling heads for coiled staples. Triggered by adjustable stop dog or pedal valve. Includes pneumatic maintenance unit. →



TGR 1/D 13
pneumatic



TGR 1E/C 13: Tabletop stapling unit with one head for stapling telescopic-type boxes, carton trays, blister packs and carton headers onto polythene bags. Triggered by pedal valve.



TGR 2/D 13-26: Two breadths consisting of aluminium sheet and rubber foil are being stapled together on either side with each 2 staples during continuous pass through. 2 heads with each 7500 staples/coil.



TGR 1/C 13-26: For stapling strong blister packs on a small rim. The stapling unit is fitted with an insert support.



RAPID 105: a very quiet electric stapler (230V) which functions without jolts. Stapling triggered by contact (stapling depth adjustable up to 100 mm) or by a foot switch. Staples up to 40 sheets (80 g). Loading capacity 210 staples 66/6, 8.

RAPID 90 E: electric stapler (230 Volt) for easy office jobs. Stapling depth adjustable up to 60 mm. Front loading, open and closed clinch. Staple triggering at the touch of a contact. Staples up to 20 sheets of paper (80 g). Loading capacity 210 staples 66/6.



Pneumatic and Electric Tabletop Staplers TH(E) 210

Pneumatic and electric tabletop stapler for stapling thin pasteboard (cardboard headers, blister packs) onto polythene or paper bags.

Automatic staple triggering at the touch of a contact. Adjustable stapling depth up to 100 mm. Instead of the contact switch the stapling can be triggered optionally by a pedal valve. Beginning with the 2nd pneumatic staple unit each additional staple unit can be switched off separately by a manual slide valve. Electric stapling units by separating the plug connections.



**TH 210/3
pneumatic**



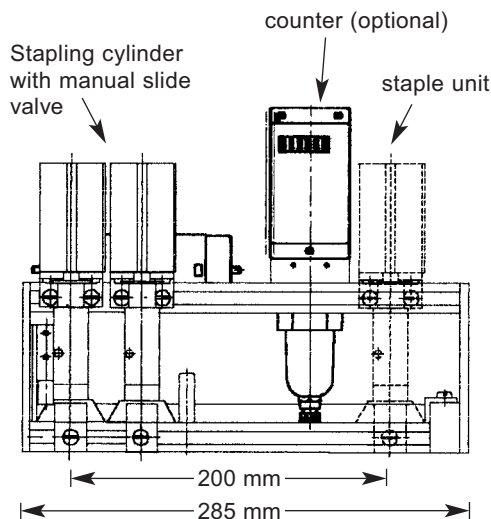
**THE 210/3
electric**

Staplers can be delivered in various executions with the option to upgrade them with further stapling units later.

TH 210/2 with 2 stapling units



TH 210/5 with 5 stapling units



Technical data:

- Staple magazine: 210 pcs /stapling unit
- Number of stapling units: 1 up to max 5 (basic tool: 2)
- Type of staples: 66/6 + 66/8 zinc galvanized
- Leg length/crown size: 6 + 8 mm / 10 mm
- Staple form: open or closed clinch
- Staple clearance*: min. 45 mm - max. 200 mm
- *Special measurements possible
- Throat depth: max. 100 mm
- Width/Height/Depth: 285 x 270 x 220 mm

- TH 210 with manometer and water separator**
- Air pressure: 4 - 6 bars
- Air consumption: 0.06 NL/stapling unit
- Counter: optional
- Weight: approx. 5.2 kg (2 units)

- THE 210**
- Counter: standard
- Weight: 8.2 kg (THE 210/3)

THE 210/2 with 2 stapling units



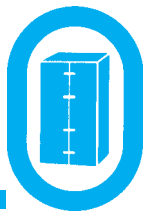
Various groupings and staple positions possible.

Closed and open clinch:



THE 210/3 with 3 stapling units



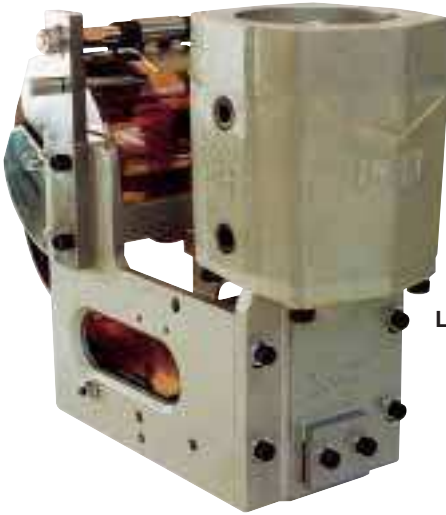
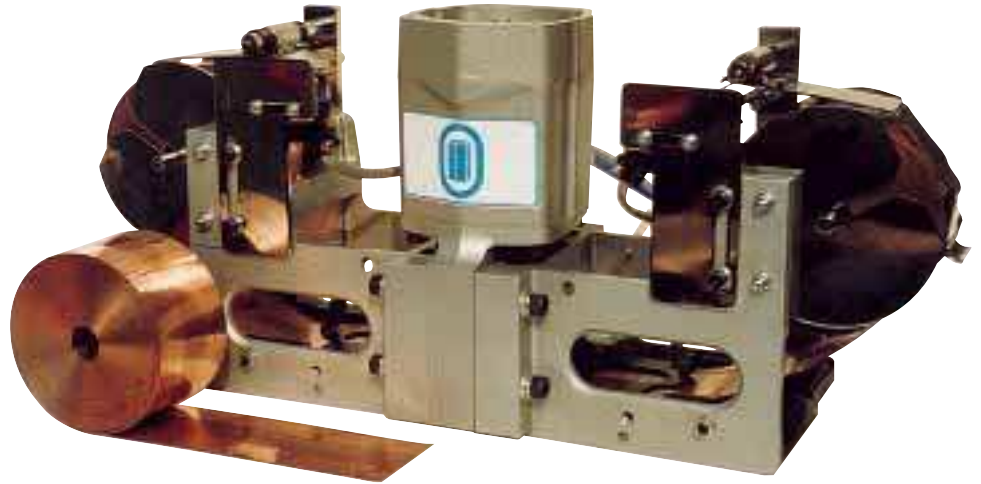


Stapling Heads for Coiled Staples LRS, LRW

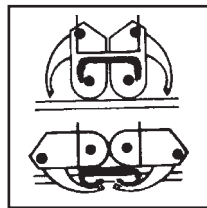
Stapling heads for coiled staples
LRS single stapling head
LRW twin stapling head
 Staple clearance 60 mm

Complete pneumatic stapling units for stationary installation into staplers and special-purpose machines.
 For stapling carton bottoms and filled folding boxes made from corrugated cardboard.

LRW-T twin stapling head



LRS-T single stapling head

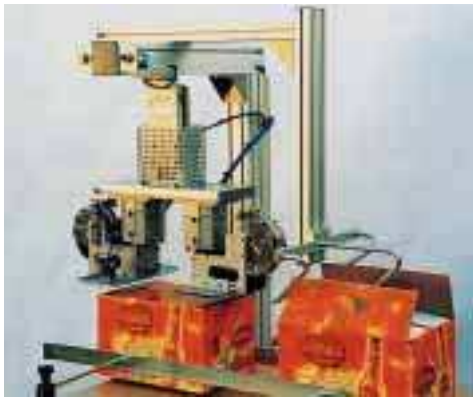


Coiled staples are firmly anchored in the carton by clinching anvils. Stapling depth adjustable.

LRS B/X: Pneumatic stapling device for folding boxes with overlapping flaps. Stapling by contact. Height adjustable. With or without mobile support.



LRS B/6X: Automatic Stapling Machine with 6 stapling heads for bottom and top stapling of filled folding boxes with overlapping flaps made from double corrugated cardboard.



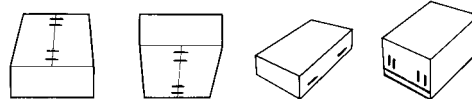
LRS-T/2 Automatic Stapling Machine with 2 heads for filled boxes.



LRW-T twin stapling head for top stapling filled folding boxes. With adapter plate and conveyance cylinder.

Technical data:

- 1.) LRS-T; LRW-T stapling from above
- 2.) LRS-B; LRW-B stapling from below
- 3.) LRS-H; LRW-H stapling from the side



	Weight	Dimensions (mm)
LRS	approx. 7.5 kg	385 x 160 x 300
LRW	approx. 14 kg	700 x 160 x 300

Air pressure: 4 - 6 bars
 Loading capacity of:
 LRS: 1 coil of 5000 staples CR 5/34
 LRW: 2 coils of 5000 staples CR 5/34



Stapling Heads for Coiled Staples A 20, B 36

Stapling heads for coiled staples staple or nail in any position.

Staples onto a clinching anvil. Fixed by a centring pin M16 (k) or by threaded bores in the side of the cylinder bottom M 8 (l).
 Feed travel up to 40 (or 80) mm without an additional cylinder and control functions.
 Air pressure 4 - 6 bars.

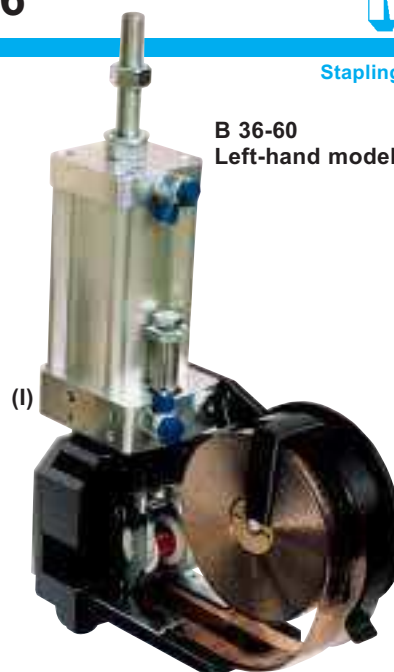
Optional supplementary equipment with sensors:

1. query stapling head position: initial position
2. staple reserve
3. staple outlet control
4. end of staple coil

A 20-42
Right-hand model



B 36-60
Left-hand model



Feed travel up to 40 mm
 A 20/80 + B 36-80 = 80 mm



Stapling Machine ST 4/B 36

With each 2 stapling heads B 36-60 above and below. 6 stapling operations at the top and bottom on cardboard bobbins. 12 automatic stapling operations.

Stapling Machine SHA 81: Fitted with 4 stapling heads B 36-70 for stapling the flaps of king size carton trays (stapling onto a clinching plate).



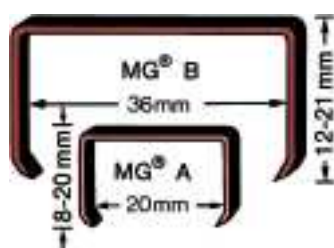
A 20-60: 6 staple operations simultaneously. Stapling an insert base into a solid board sleeve.



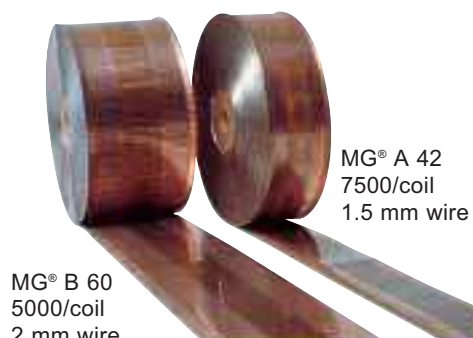
Head model	Crown size	Staples/coil	Leg length mm
A 20	20 mm	7500	7.5 - 20
B 36	36 mm	5000	12 - 21

Height - feed travel max. 40 mm 328 mm
 max. 80 mm (without fasting bolt) 368 mm
 Length including staple coil: 272 mm
 Width of stapling head: 108 mm
 Air pressure: 4 - 6 bars
 Weight 40 mm feed travel 7.34 kg
 80 mm feed travel 7.72 kg

Available as left or right-hand model



Reloading time for 1 coil: less than 1 minute



MG[®] B 60
5000/coil
2 mm wire

MG[®] A 42
7500/coil
1.5 mm wire



Nailing machine KA-8/A 20-60 with 8 stapling heads.



Nailing packets of ream printing plates: Simultaneous nailing of each 4 staples from above and below.

SGR 3/B 36-78: Stapling device with three linear moveable stapling heads. Stapling cardboard sleeves onto carton flaps for use as a carton pallet. Up to 32 automatic stapling operations. With SPS control unit.



Stapling Heads for Coiled Staples C 13, D 13

C 13 pneumatic model series.

Complete stapling and nailing units for stationary applications in stapling devices and special purpose machines.

For stapling all types of cardboard, paper, plastics, leather, upholstery etc. or for nailing these materials to wood, pressboard, etc.

Fixed by a centring pin M16 (k) or by threaded bores in the side of the cylinder bottom M 6 (l).

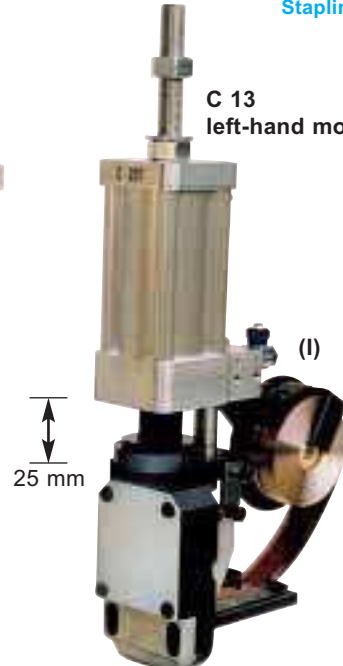
Optional supplementary equipment with sensors:

1. query stapling head position: initial position
2. staple reserve
3. staple outlet control (not for head D)
4. end of staple coil

C 13 right-hand model (k)



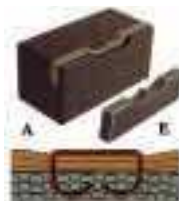
C 13 left-hand model (l)



25 mm

max. 25 mm feed travel
C + D 13-../80 = max. 80 mm

Staples or nails in any position onto a clinching anvil (A) with insert plate (E). Feed travel up to 25 (or 80) mm without additional cylinder or control functions.



Head model	Coiled staples	Leg length mm	Staples per coil
C 13-26	M C 26	7.5	5000
C 13-30	M C 30	10	5000
C 13-36	M C 36	12	5000
C 13-42	M C 42	16	5000
D 13-26	M D 26	7.5	7500

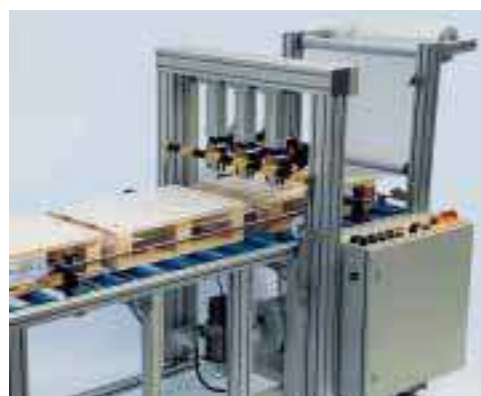
13 mm crown size

Stapling head C: 5000; D: 7500 staples per coil

C 13 D 13

Height:	C 13	D 13
feed travel max. 25 mm	298	286 mm
feed travel max. 80 mm	353	341 mm
Length including staple coil:	215 mm	
Width of stapling head:	75 mm	
Air pressure:	4 - 6 bars	
Weight:		
25 (80) mm feed travel:	5.2 (5.5) kg	
Available as left or right-hand model		

Wire copper plated
C 13: 1.0 x 0.75 mm
D 13: 0.6 x 0.48 mm



Nailing station with stapling heads C 13-30/80. Foils or carton are nailed fully automatically onto wooden pallets. The feed travel up to 80 mm compensates different pallet heights.

Labelling station: 2 stapling heads nailing labels onto the pallet base.



SHM/C 13/4X/TR

Stapling machine with 4 stapling heads C 13 for fastening slide lids into cardboard or plastic tubes. 4 stapling operations simultaneously. Machine is adjustable for tube diameters 90 - 600 mm. Output: up to 60 stapling operations/minute.



Blind Stapling Heads for Coiled Staples E 24

For closing filled folding boxes by means of coiled staples designed as blind staples which means that the staples are automatically clinched without clinching anvils.

Fixed by a centring pin M16 (k) or by threaded bores in the side of the cylinder bottom M 8 (l).

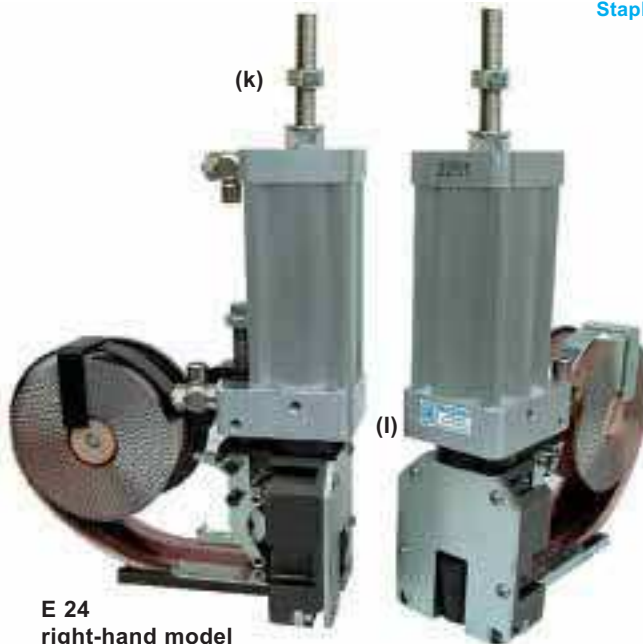
- Stapling head fires in any position
- No additional stitching holes next to the staple
- No damage to the contents, no risk of injury
- The staple is clinched within the section of the under board without penetrating completely through



- High loading capacity due to 5000 staples per coil
- Lead sealing effect, i.e. highly theft-proof

Optional supplementary equipment with sensors:

1. query stapling head position: initial position
2. staple reserve
3. staple outlet control
4. end of staple coil



E 24 right-hand model

E 24 left-hand model



For closing the top of telescopic-type boxes of different dimensions with 4 blind staples.

Stapling head E 24, pneumatic 4 - 6 bars.
Feed travel 40 or 80* mm without an additional cylinder and control functions.
Dimensions:
L 272 x H 338 (378*) x W 108 mm
Weight: 7.34 (7.72*) kg



- (1) Folding station for top flaps.
- (2) Stapling station with 2 heads for coiled staples E 24 for top closing.



For automatic top closing of folding boxes with overlapping flaps made of simple corrugated cardboard in varying sizes.

Automatic stapling machine SHM E 24/2 TN equipped with control unit SIEMENS SPS S 7.
Output: about 480 boxes/h

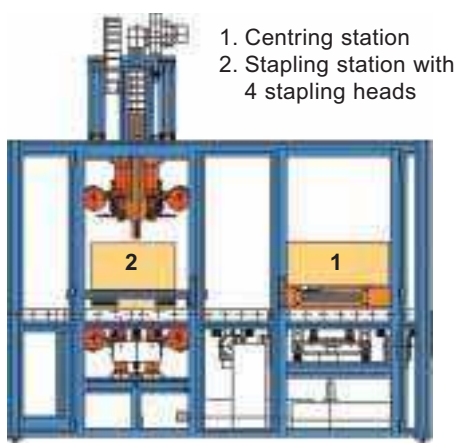


Automatic stapling machine SHM E 24/4 SO
with 4 stapling heads for closing the lids of telescopic-type boxes.
Output: 480 - 550 boxes/h



Automatic stapling machine SGR E 26/4 NI
For simultaneous bottom and top stapling of folding boxes with adjoining flaps. Adjustable for different sizes.

Output: 300 - 500 boxes/h



1. Centring station
2. Stapling station with 4 stapling heads

Stapling Devices SGR with Stapling Heads for Coiled Staples

Stapling devices with stapling heads A 20 – D 13 for stapling flat carton blanks to telescopic-type boxes, carton trays, insert lids, plastic or rubber components, etc.

Blind Stapling Heads E 24 for Stapling Devices SGR for top closing of folding and telescopic-type boxes.

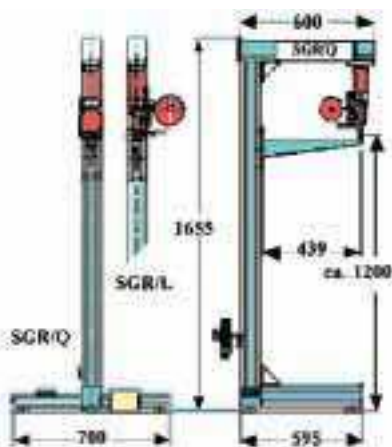
SGR 2/QE/B 36-60: Pedestal with 2 moveable stapling heads. 2 simultaneous cross stapling operations. SGR 2: Stapling release by 2-hand valve.



SGR 2/QE



SGR 1/E 24/X: with 1 blind stapling head for top closing overlapping folding boxes. Fitted with table support, pneumatic maintenance unit and pedal valve.



SGR 1 + SGR 2 Stapling device with 1 or 2 stapling heads. Working height 1200 mm = clinching anvil upper edge. Maximum insertion depth 439 mm. SGR 2: minimum staple clearance 260 mm. Maximum staple clearance to be adapted to carton size. Operating pressure 4 - 6 bars. Fitted with both a pedal valve and maintenance unit.



Depending on the type of material to be fastened, different models of stapling heads and staples can be ordered.

SGR 1/QE/C13 Pedestal with stapling arm
Maximum insertion depth 439 mm.
Pneumatic: 4 - 6 bars. Includes maintenance unit. Stapling triggered by pedal valve.



SGR 2/LE/B 36 with 2 stapling heads for longitudinal stapling



SGR 4/A 20 with 4 stapling heads, mounted adjustable.



Stapling Devices SGR with Stapling Heads for Coiled Staples

Stapling devices with stapling heads A 20 – D 13 for stapling flat carton blanks to telescopic-type boxes, carton trays, insert lids, plastic or rubber components, etc.

Blind Stapling Heads E 24 for Stapling Devices SGR for top closing of folding and telescopic-type boxes.

SGR 2/QE/B 36-60: Pedestal with 2 moveable stapling heads. 2 simultaneous cross stapling operations. SGR 2: Stapling release by 2-hand valve.



SGR 2/QE



SGR 1/E 24/X: with 1 blind stapling head for top closing overlapping folding boxes. Fitted with table support, pneumatic maintenance unit and pedal valve.



SGR 2/LE/B 36 with 2 stapling heads for longitudinal stapling



SGR 4/A 20 with 4 stapling heads, mounted adjustable.



SGR 1 + SGR 2 Stapling device with 1 or 2 stapling heads. Working height 1200 mm = clinching anvil upper edge. Maximum insertion depth 439 mm. SGR 2: minimum staple clearance 260 mm. Maximum staple clearance to be adapted to carton size. Operating pressure 4 - 6 bars. Fitted with both a pedal valve and maintenance unit.



Depending on the type of material to be fastened, different models of stapling heads and staples can be ordered.

SGR 1/QE/C13 Pedestal with stapling arm
Maximum insertion depth 439 mm.
Pneumatic: 4 - 6 bars. Includes maintenance unit. Stapling triggered by pedal valve.



Fully Automatic Tray Stapling Machine SHA 81/LIFT

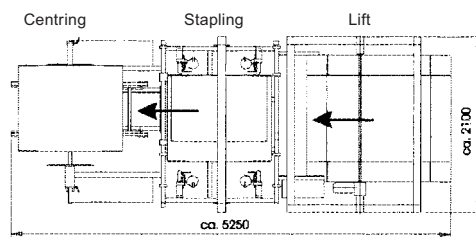
Stapling Machine SHA 81/LIFT

For an application integrated into a packaging line. With or without reversing device. A reversing device turns tray bottoms to tray lids on demand. The carton tray or lid is provided for transportation by either lifting or pushing. An additional centring operation is performed before handing over the tray.

The carton blanks can be placed directly in the lifting device by fork-lift truck.



SHA 81/LIFT with protective grating.



SHA 81 without reversing station with centring device in output side. Sucking off the tray bottoms after centring.

Technical Data

Input station with lift: 1100 useful height for wooden pallet with carton blanks.

Output:

Tray bottoms only: 4 trays/minute

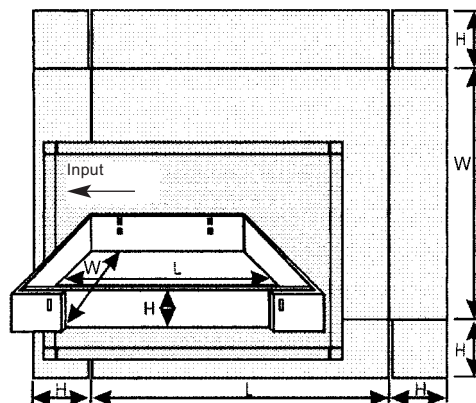
Tray bottoms + lids: 3.1 trays/minute

Control unit: SPS SIEMENS S 7.

Input on operating panel with display for prompting and error diagnosis.



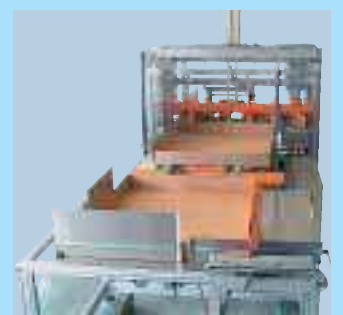
Single and double stapling (from 120 mm tray height).



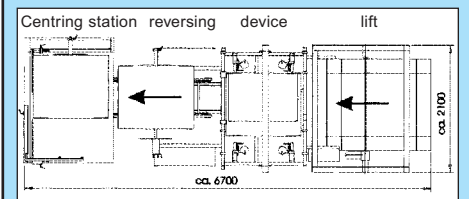
Quick adjustment for tray sizes:
 Length 1140 - 1230 mm
 Width 800 - 1040 mm
 Height 50 - 240 mm
 Other ranges of adjustment on demand.

SHA 81

With lift, reversing system and additional centring table.

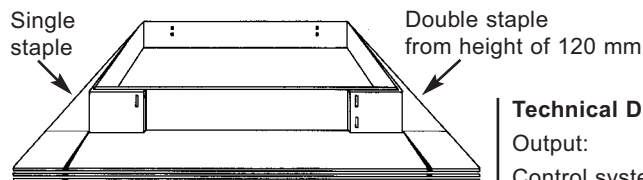


The centring table which is additionally supported by a pneumatic system provides that the trays - bottoms or lids - can be sucked off or alternatively pushed over with an auxiliary ejection device.



Fully Automatic Tray Stapling Machine SHA 81

This machine features considerable possibilities of rationalization wherever large-sized carton trays are required in large quantities. This means that manual tray handling can be completely automated.



Technical Data:

Output: 8 - 10 blanks/minute
 Control system: SPS SIEMENS S 7
 Operating pressure: 4 - 6 bars
 Voltage: 415 V / 50 Hz
 Equipment: 4 stapling heads for 7500 or 5000 coiled staples
 Adjustment range: for carton trays of 600 x 400 to 1200 x 1000, with a height of 50 - 240 mm.

Since the output of the SHA 81 stapling machine is four to six times greater than for manual or other mechanical methods, the stapling machines can be used

- a) integrated in the packaging line to supply a particular line
- b) or centrally to supply between 4 and 6 lines simultaneously.

It can be used centrally because conversion to a different size of blanks only involves 2 to 3 minutes.

The blanks are positioned in front of the lifing device. Everything else functions fully automatically.



Additional devices, such as automatic pallet loading stations, reversing stations to turn tray bottoms to tray lids, etc., are also available.



Output station: continuous ejection or ejection at the touch of a stop.



Input station with feeder

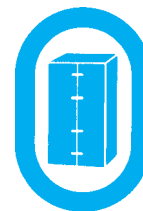


Single and double stapling

Fully automatic functions:

1. Lifting, feeding
2. Centring, shaping, stapling
3. Ejecting



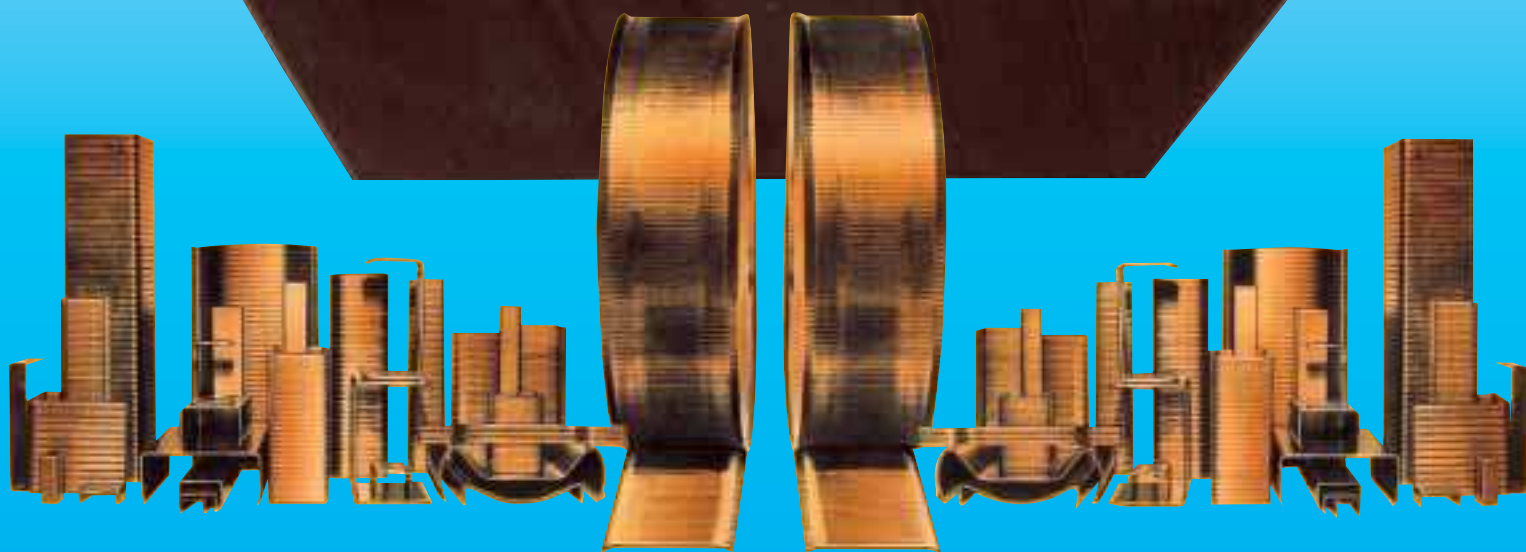
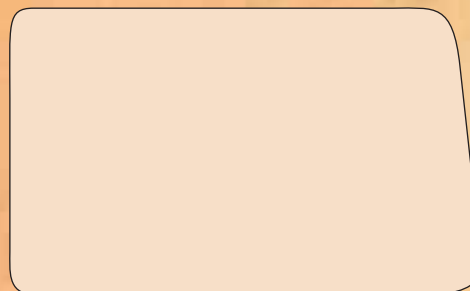


Why staple?

MG[®] Stapling System means...

- ① a high degree of stability as all cardboard layers are joined firmly together,
- ② provides more stability and better stackability,
- ③ lead sealing effect, i. e. highly theft-proof,
- ④ closure is not affected by moisture or heat,
- ⑤ very often a more cost-effective type of cardboard can be used,
- ⑥ advertising imprints are not defaced,
- ⑦ you can pack fast, cost-effectively and simply,
- ⑧ with staples removed properly cartons can be reused,
- ⑨ environmentally friendly. No problem in recycling procedure.
- ⑩ Stapling with MG[®] stapling machines includes consultation, prompt material supplies, maintenance and servicing.

Your partner for stapling:



More than 100 types of staples.