

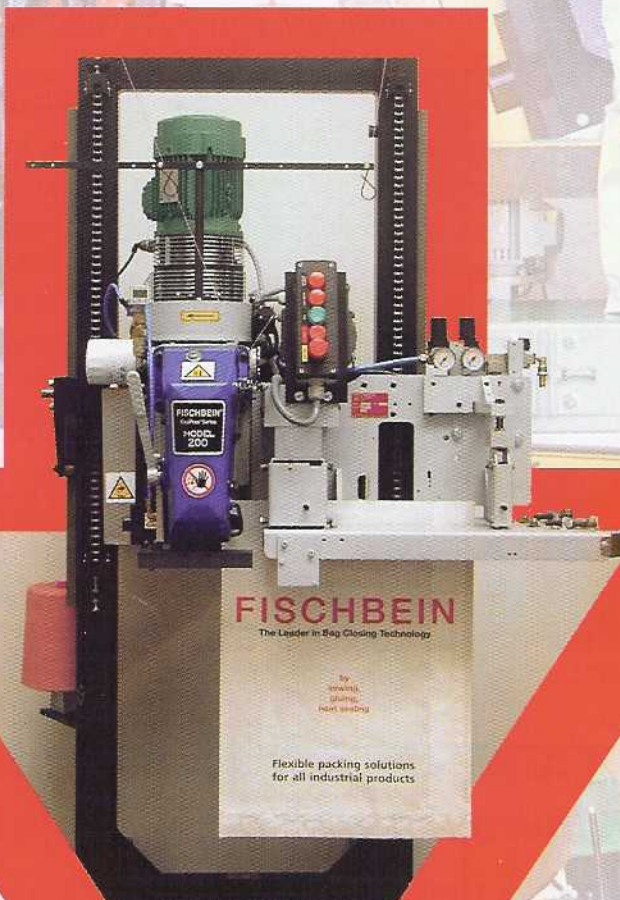


FISCHBEIN COMPANY

SMART SOLUTIONS

Industrial Sewing Systems

SOLUTIONS FOR CLOSING ALL TYPES OF OPEN MOUTH BAGS



**jute, burlap, cotton,
paper, poly-lined paper,
polyethylene,
woven or
laminated
polypropylene**



www.fischbein.com

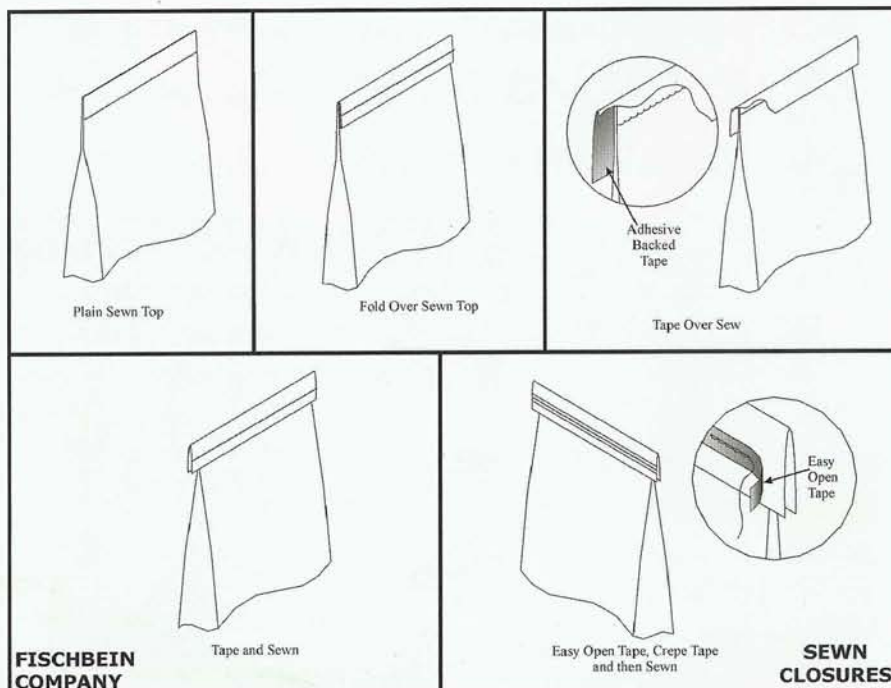


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SMART SOLUTIONS

● Industrial Sewing Systems ●

- Fischbein sewing systems offer various industrial features depending on the number of bags to be closed, the manpower, the skill of the operators, the degree of automation, the type of bags, the manpower... from a manual operation up to systems with infeeds for automatic handling.
- Fischbein sewing systems can operate manually, semi-automatically, automatically, for small/medium outputs up to a high speed production.
- Various options help to design a «tailor-made» solution for each end-user.
- Their height is adjustable and to ensure operator's safety, the system's control voltage is rated at 24VAC.
- Sewing remains the ideal solution to close "open mouth" bags of any kind of material (jute, burlap, cotton, paper, poly-lined paper, polyethylene, woven or laminated polypropylene).
- Several sewing solutions are offered:
 - **plain sewing**, the very simple closure with 2 threads
 - **sewing with folding the top of the bag**, ensuring already less leakage
 - **sewing with tape**: sewing together with crepe paper, with the possibility to use filler cord to fill the small holes created by the needle
 - **sewing with easy open tape**, allowing an easy open of the closed bag (sewing with 1 thread)
 - **tape over sewing**, using a 60mm wide pre-coated paper tape with either a heat activated hot melt adhesive or a PE coating depending on applications. The tape is applied after sewing instantly over the top and both sides of the sew line of the bag, resulting in a sealed closure that is always strong, clean, durable and sift-resistant.



Optional extras: dolly, electrical column, various infeeds, various voltages, thread break detection, crepe break detection, PLC control, dual heads systems, trim collection system



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- **Suspended Industrial Sewing System** ●
- **Model MIS** ● **Plain Sewing** ●

NEW

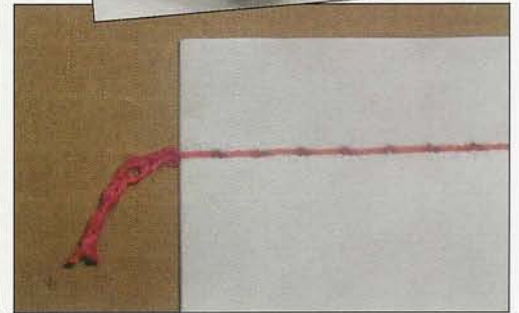
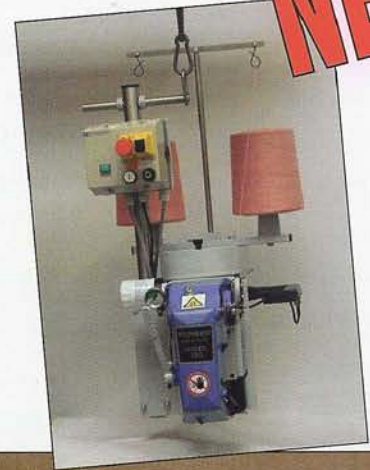
LOW VIBRATION - VALUE - RELIABILITY

Application:

To close "open mouth" bags made of paper, jute, polypropylene or polyethylene (thickness minimum 120 μ).

Operation mode:

100% manual operation when the sewing head is suspended to a cable or to the ceiling in difficult environments like cocoa or coffee exploitations. The already reshaped bag is introduced into the sewing head manually by the operator. At the end of the process, the operator has to push the thread chain into the knives to cut it.



- **Semi automatic Industrial Sewing System** ●
- **Model MA-S** ● **Plain Sewing** ●

LOW VIBRATION - VALUE - RELIABILITY

Application:

To close "open mouth" bags made of paper, jute, polypropylene or polyethylene (thickness minimum 120 μ).

Operation mode:

The already reshaped bag is introduced into the sewing head by hand or semi-automatically. The sewing process starts when the feelerswitch is activated or when the photosensor detects the bag. At the end of the process, the operator has to push the thread chain into the knives to cut it.

Other available models:

Manual: MA-MP, Semi-automatic: MS-MR



MA-S with a standard conveyor



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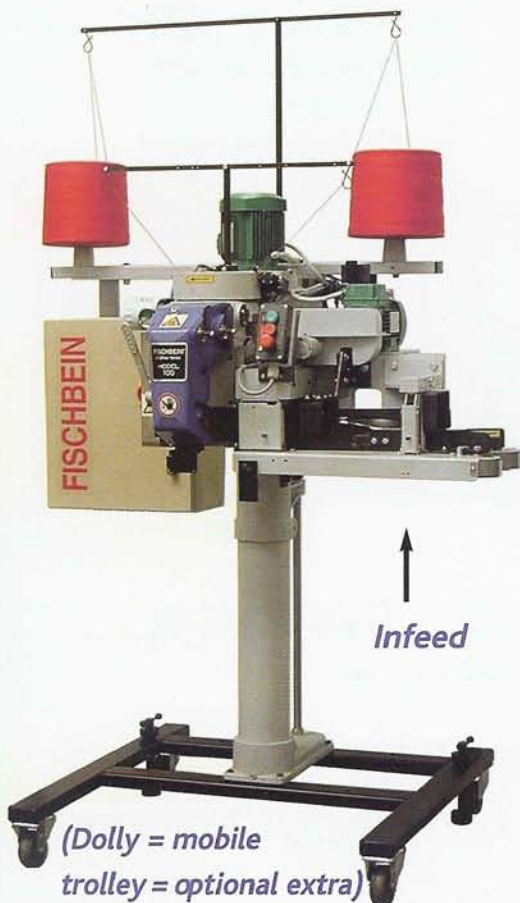
SMART SOLUTIONS

- Automatic Industrial Sewing System ●
- Model MFR ● Plain Sewing with fold over device ●

LOW VIBRATION - VALUE - RELIABILITY

Application:

To close "open mouth" bags made of paper, polypropylene or polyethylene (thickness minimum 120 μ).
Maximum 3 plies for flat bags - Maximum 2 plies for gusseted bags.



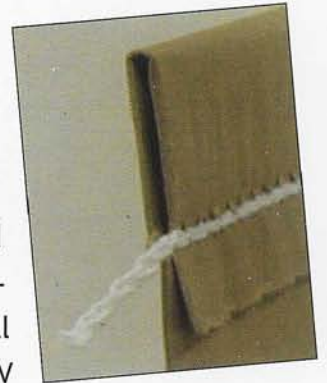
(Dolly = mobile
trolley = optional extra)

Operation mode:

The already reshaped bag is introduced into the infeed which folds the bag's top and simultaneously guides the bag to the sewing head. The sewing process starts when the photosensor detects the bag. At the end of the process, the rotary knife automatically cuts the thread chain.

Role of the infeed:

Motorised system designed to bring automatically the leading edge of the bag into the sewing head without any operator. The infeed guides the bag's top to the sewing head, allowing to sew the bag automatically. All Fischbein infeeds are driven by a 184W (0,25CV) motor and belt driven gear box. The motor is equipped with an adjustable pulley allowing easy synchronisation with the sewing head and the conveyor belt speeds. They use 19 mm wide flat belts for a good grip of the reformed bag's top instead of dangerous heavy metallic chains. The front section of the infeed is hinged and spring loaded allowing an easy passage of various thicknesses of bags.



Other available models: MTS, MFS, MTR.





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SMART SOLUTIONS

- Automatic Industrial Sewing System ●
- Model MTR-HS ● Plain Sewing ●

HIGH PERFORMANCES - HIGH PRODUCTION

NEW

Application:

To close "open mouth" bags made of paper, polypropylene or polyethylene (thickness minimum 120 μ).

Operation mode:

The already reshaped bag is introduced into the infeed which guides the bag to the sewing head. The sewing process starts when the photosensor detects the bag. At the end of the process, the rotary knife automatically cuts the thread chain.



- Double leg pedestal
- PLC control
- Separate wire box

*Sewing Head Model 200
(plain sewing)*

Other available «high speed» models:

MR-HS, MUA-HS (tape sewing)

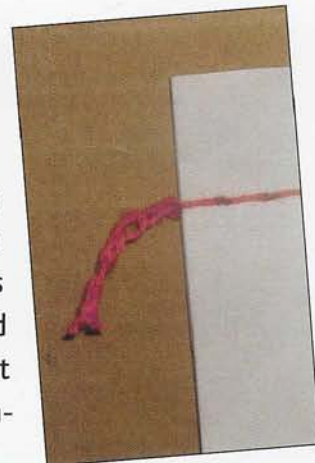
HIGH SPEED

Sewing Heads:

The key element of a sewing system is the sewing head. The high speed sewing system is equipped with a sewing head model 200 which can run at speeds up to 30m/min (depending on the stitch length).

This model is available either for plain sewing at high speeds and equipped with a rotary knife for a better cut of the thread chain, very close to the needle, or for tape sewing with a pneumatic clipper knife (model MUA-HS with Head Model 201).

The sewing head is completely sealed in oil, avoiding dust and dirt, which allows a longer life time of the parts. Recommended use of a needle air cooler to avoid thread breakages at high speeds.



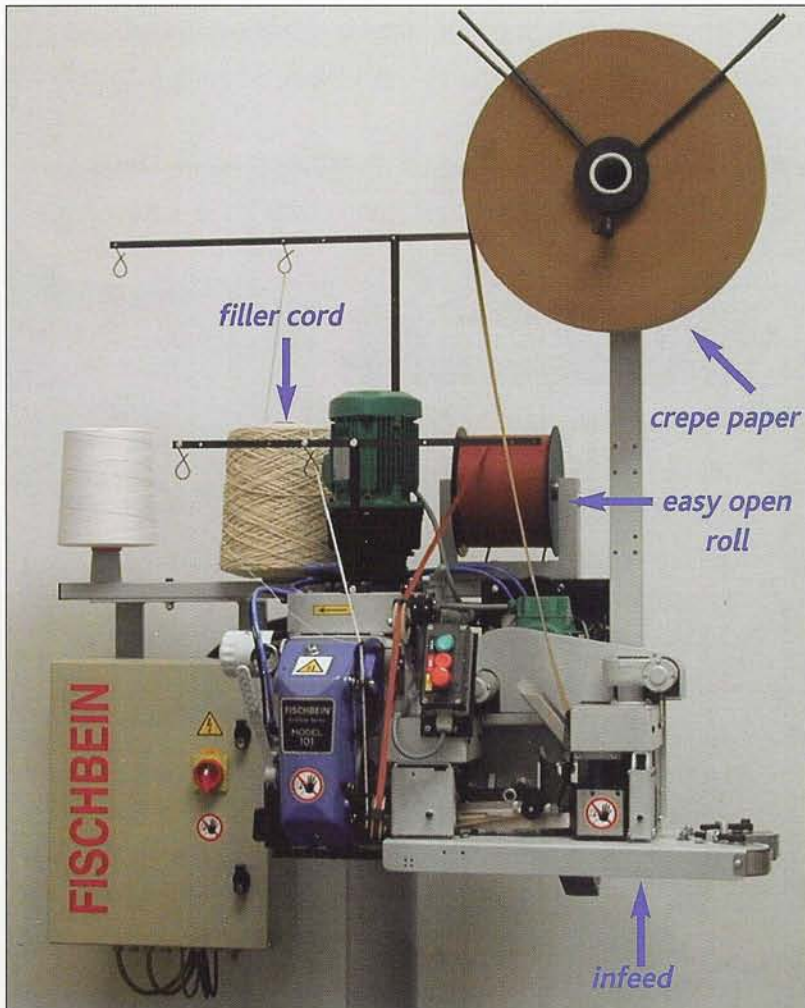
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SMART SOLUTIONS

- Automatic Industrial Sewing System ●
- Model MUA ● Sewing with crepe band ●
- (with or without easy open tape) ●



**LOW VIBRATION -
VALUE - RELIABILITY**

GREAT CLOSURES

Application:

To close "open mouth" bags made of paper, laminated polypropylene or polyethylene (thickness minimum 120 μ).

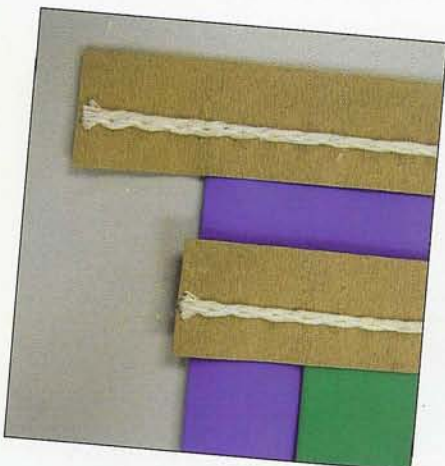
Operation mode:

The already reshaped bag is introduced into the infeed, the bag's top is trimmed. The sewing process starts when the photosensor detects the bag. At the end of the process, the chain/tape is cut by the pneumatic clipper knife of the sewing head.

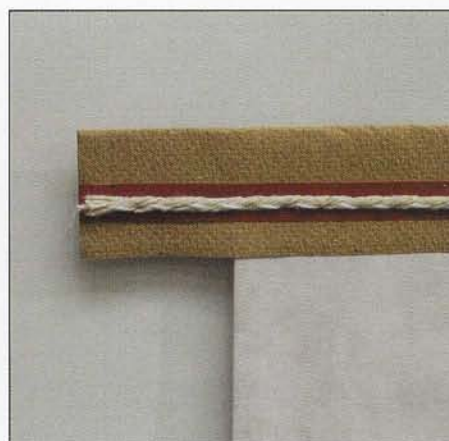
Advantage:

MUA system is ready for tape or chain sewing

MUA with easy open tape



*Sewing with crepe band
(+ filler cord)*



Sewing with easy open tape





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● Automatic Industrial Sewing System combined with Tape Over Sewing ●

● Combined closure MOS+TOS ●

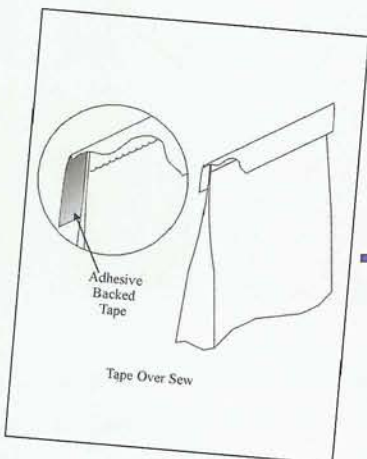
NEW

Application:

Paper bags.

Operation mode:

The already reshaped bag is introduced into the infeed, the bag's top is trimmed. The sewing process starts when the first photosensor detects the bag. At the end, the chain is blown horizontally by an air chain blower and is cut close to the bag's edge by the pneumatic clipper knife of the sewing head. Then the TOS applies the pre-coated paper tape over the top and both sides of the sew line of the bag.





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SMART SOLUTIONS

● SPECIALS ●

● INDUSTRIAL DUAL HEAD SEWING SYSTEM ●

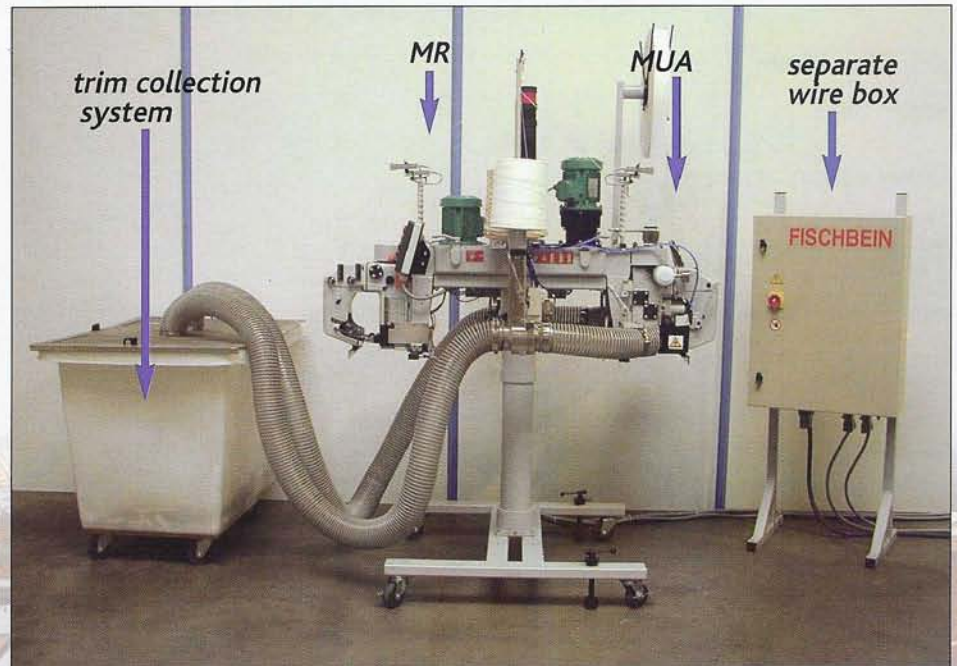
Application:

To close "open mouth" bags made of paper, polypropylene or polyethylene (thickness minimum 120 μ).

Operation mode:

Depends on the combination of the systems: with or without infeed, combination of 2 identical systems or 2 different systems to get 2 types of closures.

The dual head system is efficient and very flexible. It is the essential element for productions in 3 shifts X 8 hours/day.



System MR-MUA with a trim collection system

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