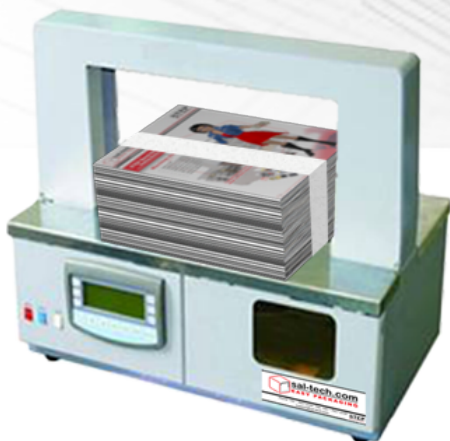


Sal-Tech Easy Packaging Packaging Solutions Banding



WE KEEP THINGS TOGETHER

**Machines,
and
Materials**



JC 3362 STEP Catalog BAND Jun 2021



sal-tech.com
EASY PACKAGING

BANDING

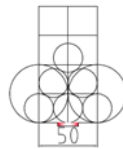
Get the best out of the BANDING process.

Typical equipment for banding:

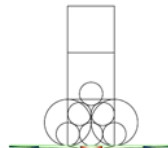
			
Automatic STEP Band 800 *1	Automatic STEP Band 1000	Automatic STEP Band 1400	Automatic STEP Band w. Jumbo

Process: With the banding process you place a paper or film tape around your product. This tape is either heated welded or ultra sonic, there by holding the product. Banding can only be done automatic or fully automatic. Before banding you have to place your product, if it is 1 unit or many items the final position must be present before the banding is made and this position must be geometrically stabile. (see the article on geometrical stability in packaging) In order to make a good banding the product must have enough surface towards the banding spacer/surface, so when the tape is tightened it can release. You can band both hard and soft products within limitations. The area towards the spacer surface must be above 50mm and flat. Banding is great for product that have little strength, using banding you can use zero tension just placing the tape around your product and you can tension up to about 18 kg depending of machine.

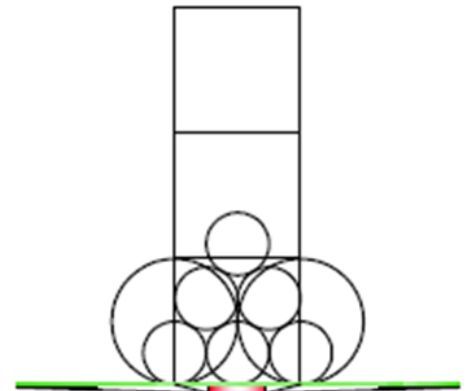
Geometry good for banding as it has large enough surface towards spacer.



Geometry allows for banding given the correct options are added.



Geometry does not allow banding, surface towards spacer to small/short.



In connection with the process different equipment can be used:

Manual:

Paper wrap this closed with tape, for this you need no machine or equipment.

Semi Automatic:

Only support equipment in connection with production done individually exists.

Automatic:

General: Ring banding is not possible, but Sal-tech Easy Packaging has some solutions for this task using open/closing arches making it possible. Product size is limited to arch size and if the product has to be turned inside the arch the diagonal.

Banding machines feed the tape automatically. There are 2 main forms:

- The tape is pushed up in a loop form and is then ready for banding. No product can be inside the machine while the tape is set ready. On start, the tape will be pulled back for tension and then welded and cut. Tension from few kg/gram up to about 18 kg max. Example on this kind of machine is STEP Band 800.
- Banding machines that shoot the tape around in the arch and on start opens the arch and pulls back the tape back around the product for tensioning and welding. Example on this kind of machine is STEP Band 1000, 1100 og 1200.

To be continued on page 7.

Note *1: No longer sold

STEP BANDING MACHINES:

STEP Band 1000

The all round banding machine for easy to use application

Table Top Banding Machine, it bonds the material together by applying the Heat Sealing System to form a nice and tidy seal.

Features:

- Can Use 50micron Plastic Tape
- Start and ready at once, no heating time.
- Size of product up to B460mm x H200mm
- Band width 30mm x 100-130MIC on core \varnothing 40mm
- High Tension, mechanical adjustable tension 5-30N.
- Easy to operate and load the band.
- Microprocessor controlled.
- Up to 26 bands/min.
- With counter
- Touch Screen Control Box
- Precise Tension Adjustment
- Step Control to Clear Tape Jam
- Heat Sealing
- New Arch Guide Design
- Photo Eye Sensor on Table Top
- With Pause Function



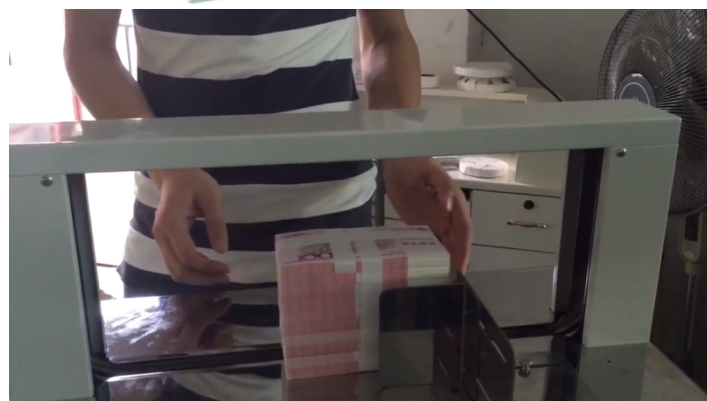
Specifications		
Model No.	STEP BAND 1000-20	STEP BAND 1000
Tape Specification (W x Thickness)	19.2 - 19.6mm x 100 – 130mic	29.2 – 29.6mm x 100 – 130mic
Tape Type	OPP Film or Paper Tape	OPP Film or Paper Tape
Arch Size	470 x 200mm	470 x 200mm
Roll Size	40mm Diameter x 150 Meters per Length	40mm Diameter x 150 Meters per Length
Banding Size	Max. 460 x 200mm, Min. 30 x 10mm	Max. 460 x 200mm, Min. 30 x 10mm
Power Supply	220V 50/60hz 1 Phase	230V 50/60hz 1 Phase - Default
	110V 60Hz 1 Phase	110V 60Hz 1 Phase - Optional
Control System	PCB	PCB
Banding Speed	26 Bandings/Min.	26 Bandings/Min.
Net Weight	32 Kg	32 Kg
Welding Method	Heat Sealing	Heat Sealing
Banding Tension	5-30N	5-30N
STEP Item No.	32201020	32201000

STEP BAND 1400 High Speed Banding Machine



Features:

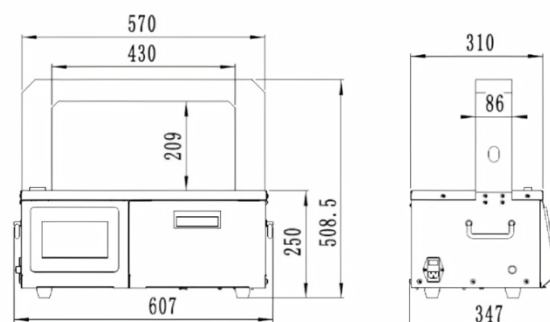
- Can Use 50micron Plastic Tape
- Up to 26 bands/min.
- With counter
- High Tension
- Touch Screen Control Box
- Precise Tension Adjustment
- Step Control to Clear Tape Jam
- Heat Sealing
- New Arch Guide Design
- Photo Eye Sensor on Table Top
- With Pause Function
- High grade parts compared to STEP Band 1300



Optional Jumbo dispenser



Specifications	
Model No.	STEP BAND 1400
Tape Specification (W x Thickness)	29.4mm x 50-80micron
	29.4mm x 80-120micron
Tape Type	OPP Film, Paper Tape, Kraft Paper
Arch Size	430 x 200mm
Roll Size (Diameter x Length)	Plastic Film: 40mm x 150-300m
	Paper Tape: 40mm x 150-180m
Banding Size	Max. 420 x 200mm, Min. 30 x 10mm
Power Supply	230V 50/60hz 1 Phase - Default
	110V 60Hz 1 Phase - Optional
Control System	PLC & Touch Control Box
Banding Speed	31 Bandings/min.
Net Weight	34 Kg
Welding Method	Heat Sealing
Banding Tension	5-40N
STEP Item No.	32201400



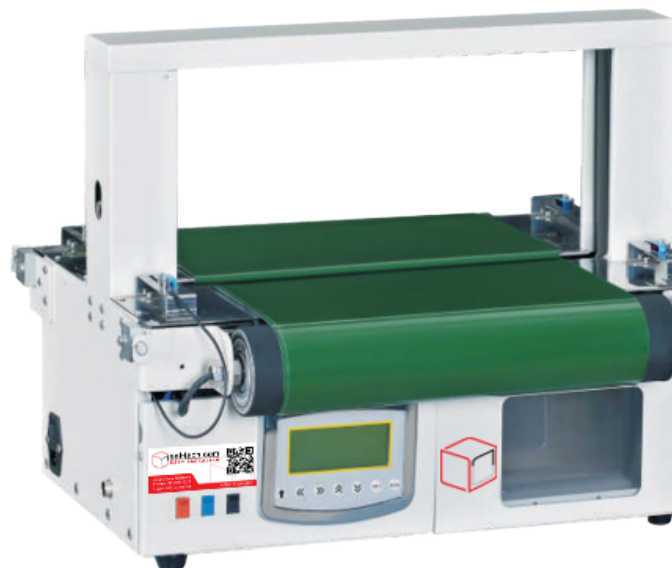
STEP BAND 1000 BELT:

BELT TABLE BANDING MACHINE:

STEP BAND 1000 BELT Automatic Banding Machine

Features:

- Photo Eye sensor or Foot Pedal Operation
- Digital Screen Control
- Can use Paper or Film Tape
- Adjustable Feeding Tension and Banding Tension
- Band Package Min. Size 30 x 10mm – 460 x 200mm
- Enter Button to Clear Tape Jam



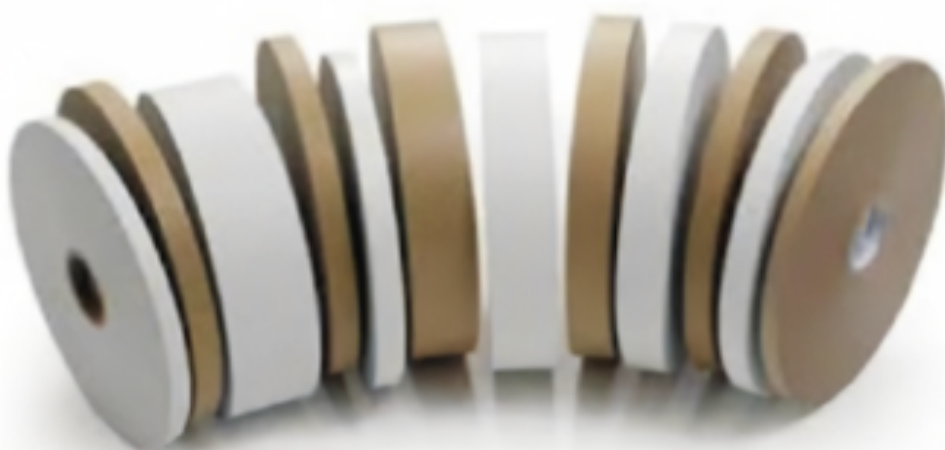
Specifications		
Model No.	STEP BAND 1000-20 Belt	STEP BAND 1000 Belt
Tape Specification (W x Thickness)	29.2-29.6mm x 100 -130mic	29.2-29.6mm x 100 -130mic
Tape Type	OPP Film or Paper Tape	OPP Film or Paper Tape
Arch Size	470 x 200mm	470 x 200mm
Roll Size	40mm Diameter x 150 meters per Length	40mm Diameter x 800 meters per Length
Banding Size	Max. 460 x 200mm, min. 30 x 10mm	Max. 460 x 200mm, Min. 30 x 10mm
Power Supply	230V 50/60hz 1 Phase - Default	230V 50/60hz 1 Phase - Default
	110V 60Hz 1 Phase - Option	110V 60Hz 1 Phase - Option
Control System	PCB	PCB
Banding Speed	20 pcs/min.	20 pcs/min.
Net Weight	42 Kg	72 Kg
Welding Method	Heat Sealing	Heat Sealing
Banding Tension	5-40N	5-40N
STEP Item No.	32201510	32201520

STEP JUMBO Dispenser



Specifications		
Model No.	STEP JUMBO 1000	STEP JUMBO 1400
Tape Specification (w x Thickness)	30mm x 50-130micron	30mm x 50-130micron
Tape Type	OPP Film or Paper Tape	OPP Film or Paper Tape
Table Height	755mm	550-750mm
Roll Size (Diameter x Length)	76mm x 500-800m	76mm x 800-1200m
Connection	Parallel Connection	Parallel Connection
Net Weight	40 kgs	45 kgs
Machine Dimensions (L X W x H)	614 x 430 x 755mm	614 x 430 x 550-750mm
Item no.:	32201090	32201490

Jumbo rolls of banding tape



STEP LARGER ARCH BANDING SYSTEMS



Specifications			
Model No.	STEP BAND 1000-30B	STEP BAND 1000-30B-60	STEP BAND 1000/1400 Base
Tape Specification (W x Thickness)	29.2-29.6mm x 100 -130mic	29.2-29.6mm x 100 -130mic	29.2 – 29.6mm x 100 – 130 micron
Tape Type	OPP Film or Paper Tape	OPP Film or Paper Tape	OPP Film, Paper Tape
Arch Size	470 x 200mm	600 x 600mm	1000 x 320mm
Roll Size	40mm Diameter x 800 meters per Length	40mm Diameter x 800 meters per Length	40mm x 800m
Banding Size	Max. 460 x 200mm, min. 30 x 10mm	Max. 600 x 600 mm, Min. 30 x 10mm	Max. 1000 x 300mm, Min. 30 x 10mm
Power Supply	230V 50/60hz 1 Phase	230V 50/60hz 1 Phase	230V 50/60hz 1 Phase
	110V 60Hz 1 Phase	110V 60Hz 1 Phase	110V 60Hz 1 Phase
Control System	PCB	PCB	PCB
Banding Speed	25 pcs/min.	25 pcs/min.	20 pcs/min.
Net Weight	72 Kg	80 Kg	80 Kg
Welding Method	Heat Sealing	Heat Sealing	Heat Sealing
Banding Tension	5-40N	5-40N	5-40N
STEP Item No.	32201530	32201540	32201550

STEP BAND 1400-CA-MP Logo Centralize in-line automatic banding machine

Features:

- Use 60-120micron OPP film or 80 g/m2 paper
- Can set for 1 or 2 bands
- Automatic feeding and delivery
- Schneider touch screen and PLC
- Easy setup
- Machine with logo centralize function
- Machine with the counter
- Conveyor speed adjustable

Specifications	
Control System	Schneider touch Screen + PLC
Tape Size	W29.4mm*L500-800M
Tape Thickness	100-120mic (paper and film)
Core diameter	76 mm
Power supply	220V/110V 50Hz/60Hz 1PH
Arch size	370*200mm
Banding size	Max: 370 x 200mm Min: 30 x 10mm
Applicable tape	Paper, kraft & OPP film
Tension	5-40N 0.5-4kg
Banding speed	22 pcs/min
Welding method	Heating sealing
Sliding plate width	16mm
Machine weight	N.W:130Kg
Item no.	32201610



STEP BAND 1400-30AM10 Pharmacy Box Handling Machine

Specifications	
Control System	PLC
Tape Size	W29.4mm*L500-800M
Tape Thickness	60-120mic (paper and film)
Core diameter	40 or 76 mm
Power supply	220V/110V 50Hz/60Hz 1PH
Air consumption	0.6MPA
Arch size	430*200mm
Banding size	L100-150MM*W50-120MM
Applicable tape	Paper, kraft & OPP film
Tension	5-30N 0.5-3kg
Banding speed	13-17 pcs/min
Welding method	Heating sealing
Power	1500W
Machine weight	N.W:180KG
Item no.	32201650



STEP BAND 1400-30LABR

Specifications STEP BAND 1400-30LABR	
Control System	Schneider PLC+touch screen
Tape Size	W29.4mm*L150-800M
Tape Thickness	60-120mic (paper and film)
Core diameter	76mm
Power supply	220V/110V 50Hz/60Hz 1PH
Air consumption	0.6MPA
Arch size	400*200mm
Banding size	L100-480MM*W50-320MM*H5-170MM
Applicable tape	Paper, kraft & OPP film
Tension	5-40N 0.5-4kg
Banding speed	12pcs/min
Counter	Yes
Welding method	Heating sealing
Power	1500W
Machine weight	N.W:232KG
Machine dimension	1678*740*1366CM
Item no.	32201630

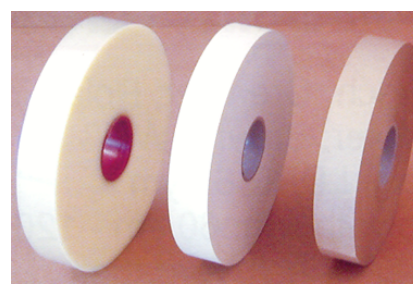


STEP BAND 1400-30ABE



Specifications STEP BAND 1400-30ABE	
Control System	Schneider PLC+touch screen
Tape Size	W29.4mm*L150-800M
Tape Thickness	60-120mic (paper and film)
Core diameter	76mm
Power supply	220V/110V 50Hz/60Hz 1PH
Air consumption	0.6MPA
Arch size	400*200mm
Banding size	L100-850MM*W50-280MM*H5-170MM
Applicable tape	Paper, kraft & OPP film
Tension	5-30N 0.5-3kg
Banding speed	13-17pcs/min
Counter	Yes
Welding method	Heating sealing
Power	1500W
Machine weight	N.W:232KG
Machine dimension	1678*740*1366CM
Item no.	32201640

Banding Tape – Paper brown/white, Film, transparent, foamed



STEP Band 1000 / STEP Band 1100 / STEP Band 1400 / Ake Bono / Xutian WK02-30 / Xutian WK03-30 – (30mm)							
	Rolls/box	Rolls/pallet	Type	Width	M/roll	Core ø	STEP Item no
Banding tape paper brown	40	1200	PB 8029180	29	180	40	58313018
Banding tape paper white	40	1200	PW 8029180	29	180	40	58314018
Banding tape paper brown	40	300	PB 8029400	29	400	40	58313040
Banding tape paper white	10	300	PW 8029400	29	400	40	58314040
Banding film transparent	40	1200	FTB 11029200	29	200	40	58336200
Banding film transparent	10	300	FTB 11029500	29	500	40	58336500
Banding film transparent	10	300	FTB 11029800	29	800	40	58336800
Banding film transparent	10	300	FTB 110291000	29	1000	40	58336999

Ake Bono (50 mm)							
Banding tape paper brown	6	180	PB 8049800	49	800	40	58513800
Banding tape paper white	6	180	PW 8049800	49	800	40	58514800
Banding film transparent	6	180	FTB 100291000	49	1000	40	
Banding film transparent	6	180	FTB 110291000	49	1000	40	58533999

Band All (28 mm)							
Banding tape paper brown	10	300	PB 7028800 A	28	800	76	
Banding tape paper white	10	300	PB 8028800 A	28	800	76	
Banding tape paper white	10	300	PW 8028800 A	28	800	76	
Banding film transparent	10	300	FTB 50281500	28	1500	76	

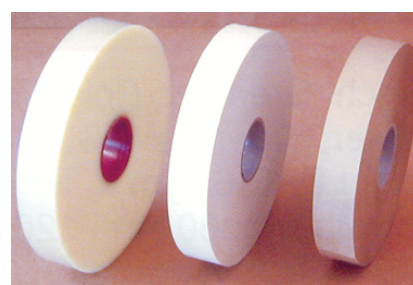
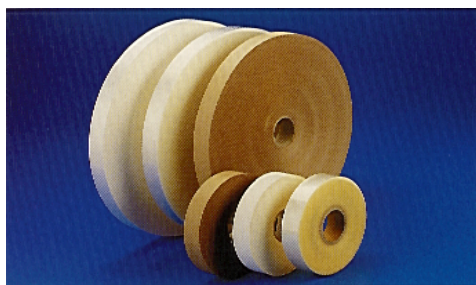
Band All (48 mm)							
Banding tape paper brown	6	180	PB 7048800 A	48	800	76	
Banding tape paper brown	6	180	PB 8048800 A	48	800	76	
Banding tape paper white	6	180	PW 8048800 A	48	800	76	
Banding film transparent	6	180	FTB 50481500	48	1500	76	

STEP Band 800 / COM / Busch / ATS CE / ATS MS 420 / Tapit (30 mm)							
Banding tape paper brown	1200	40	PB 7030150	30	150	50	
Banding tape paper brown	1200	40	PB 8030150	30	150	50	
Banding tape paper white	1200	40	PW 7030150	30	150	50	
Banding tape paper white	1200	40	PW 8030150	30	150	50	
Banding film transparent	1200	40	FTB 10030150	30	150	50	
Banding film transparent	1200	40	FTB 8030200	30	200	50	

COM / Busch / ATS CE / MS 420 Jumbo Rolls (30 mm)							
Banding tape paper brown	300	10	PB 7030800	30	800	76	
Banding tape paper brown	420	14	PB 8030300	30	300	76	
Banding tape paper brown	300	10	PB 8030800	30	800	76	
Banding tape paper white	300	10	PW 7030800	30	800	76	
Banding tape paper white	300	10	PW 8030800	30	800	76	
Banding film transparent	300	10	FTB 10030800	30	800	76	

COM / Busch / ATS CE / MS 420 Jumbo Rolls (50 mm)							
Banding tape paper brown	180	6	PB 7050800	50	800	76	
Banding tape paper white	180	6	PW 8050800	50	800	76	
Banding film transparent	180	6	FTB 10050800	50	800	76	

Banding Tape – Paper brown/white, Film, transparent, foamed



ATS Ultra Sonic (30 mm)	Rolls/box	Rolls/pallet	Type	Width	M/roll	Core ø	STEP Item no
Banding tape paper brown	10	300	PB 9030800 PP	29	800	76	
Banding tape paper white	10	300	PW 9030800 PP	29	800	76	
Banding film transparent	10	300	FTN 12530750	29	750	76	
Banding film transparent	10	300	PEH 10030950	29	950	76	
Banding film transparent	10	300	PEH 10030800	29	800	76	
Banding film foamed	10	300	FWG 17030600	29	600	76	
Banding film foamed	10	300	FWG 12530850	29	850	76	

Ultra Sonic (50 mm)							
Banding tape paper brown	6	180	PB 9050800 PP	47	800	76	
Banding tape paper white	6	180	PW 9050800 PP	47	800	76	
Banding film transparent	6	180	FTN 12550750	47	750	76	
Banding film transparent	6	180	PEH 10050950	47	950	76	
Banding film transparent	6	180	PEH 10050800	47	800	76	
Banding film foamed	6	180	FWG 17050600	47	600	76	
Banding tape film white	6	180	FTN 12550750 WS	47	750	76	

Sollas							
Banding film transparent	720	20	FTB 35251100	25	1100	76	
Banding film transparent	360	10	FTB 35501100	50	1100	76	


Palamides							
Banding tape paper brown	300	10	PB 7050300	49	300	76	
Banding tape paper white	300	10	PW 8050300	49	300	76	

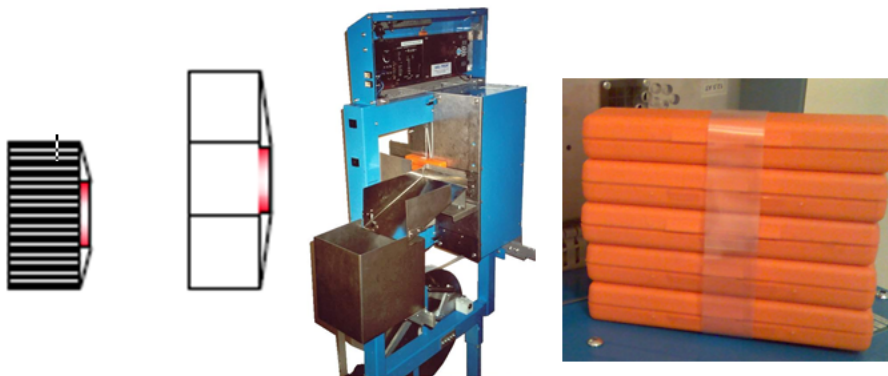
Heidelberg							
Banding tape paper brown	180	6	PB 7048600 SC	48	600	76	
Banding tape paper white	180	6	PW 8048600 SC	48	600	76	

UltraMatic A3 / 380 (29 mm)							
Banding tape paper brown	40	1200	PB 8029180	29	180	40	
Banding tape paper white	40	1200	PW 8029180	29	180	40	
Banding tape paper brown	40	300	PB 8029400	29	400	40	
Banding tape paper white	10	300	PW 8029400	29	400	40	
Banding film transparent	40	1200	FTB 11029200	29	200	40	

Banding Tape with print per request. Single or multiple colors:

Fully Automatic:

- Tajco solution: Exhaust tale pipe fix to cardboard back cover using band tape for sewing the tail pipe to the back board. Fully automatic solution, with capacity up to 16-20 per minute.
 - Novo Nordisk: Problem small surface towards spacer that comes upright standing on a Møller & Davidcon automatic line for packaging of insulin pens. Solution: Side turned machine.
 - Graphic Industry: Problem: Graphic product that consists of down to 2 piece of A4 paper that should be banded with tape. Solution: Tension all you can against forming plates that can be adjusted according to the product, hereby the tape is “broken” around the edge and afterwards it can hold the 2 piece of paper together.
- 



Spacer

