

# Sal-Tech Easy Packaging Packaging Solutions String Tiers



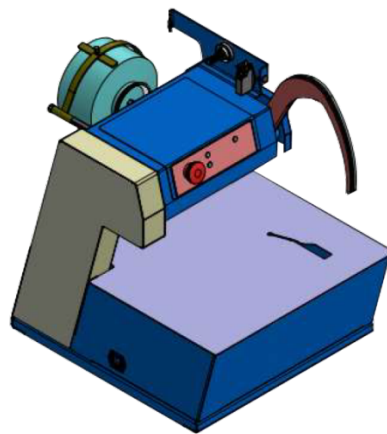
**WE KEEP THINGS TOGETHER**

**Machines  
and  
Materials**



# Sal-Tech Easy Packaging

## String Tiers Laundry Equipment



Tiers are use in the laundry and cables industry, in farming for vegetables and flowers and in general for securing item with small diameters and cross sections.

## STRING TYING

### Get the Best out of String Tying process.

Typical equipment for the String Tying:

		
Automatic	Automatic S-Series General Purpose Tyers	Automatisk Rotating Tying Machine

**Automatic String Tying Machine LSI Series** – suitable to be used for Agricultural Produce, Floral Industry even Electrical wires and related products.

**Automatic Rotating Tying Machine FR2 Series** – Binds properly without wasting string thanks to its patented Konting Mechanism system, suitable to be used for Horticulture, Vegetable and Electrical products, made from stainless material.

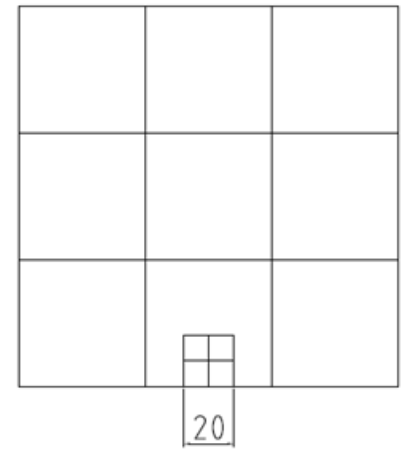
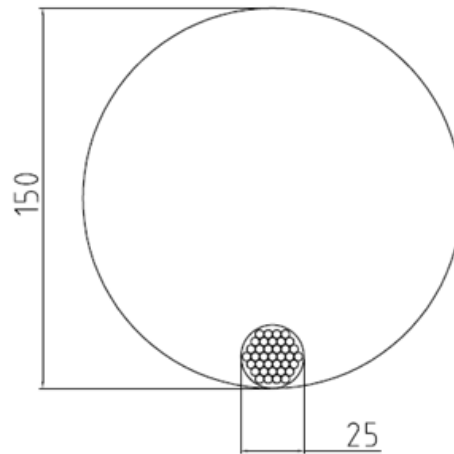
**Automatic S-Series General Purpose Tyers** - these non-food bundling, stringing and tying machines are used for dry product applications. Utilises Jet knotting unit with thousands in use worldwide. Provides a securely tied package using polyethylene, cotton or elastic twine with a quick and easy operation, ideal for any packing application.

**Fully Automatic Tying Machine** – as of present I have not yet found a Fully Automatic Tying machine for general applications.

**Process:** The String Tying process starts when the product passes through the machine, in which, the string is tightened by the lead. And then passing the start of keys point and the string is inserted. The attached head node attaches and the string is cut. A new string will then be ready for the next product. Types of string tying materials are LDPE, PET, cotton, elastomer, elastic, viscous and forms as Poly Tape, Twisted Poly and Spiral Twist. The hard products are bound with elastic cords while the soft products are bound with fixed strings.

String Tying only has a few restrictions, since it has no direct influence on the product outcome. When the cord/string is tensioned, it is important to note that the product needs to have sufficient hardness be able to resist the pull of the string, while ensuring sufficient tension around the product, thus it is subsequently tied in a bundle. Minimum length of bundle typically down to 20-25 mm, but lesser may be possible. The height of the arm that ties the circles gives the outer limit.

Geometri tillader  
snorbinding så længe  
produktet kan  
modstå presset fra  
snoren når  
produktet føres  
igennem ved binding



### Applicable equipment in relation to different processes:

- **Manual:**  
Manual binding of the products have been around since the first jungle rope, this requires no machinery or equipment.
- **Semi-automatic:**  
To my knowledge there is no equipment for semi-automatic string tying machine.
- **Automatic:**
  - String Tying requires an operator. There are 2 main forms:
    - String is placed around the product and is attached to the underside, rotary type. The machines that implements this process is called Rotary Tyers. These machines are often used in the graphics industry, laundries, etc.
    - The string is passed down behind the product after it has been inserted through another string. The string passed into the attached head attached and the cord cutters. This type machines that does this process is called linked arm binders. Example machines are Pak Resort 2000 and Coil Resort. These machines are often used in laundries, gardens, cable manufacturers(coil). Alternatives like the right / left version and tandem also apply.

### **Typical products have been tied with string:**



- **Fully Automatic:**
  - For laundry, horticulture and industry etc. There is a variety of fully automated solutions where the product is loaded in a position facing the conveyor or on the open belt and then the machine binds the product.

Project specific and more advanced string tying equipment and industry specific processes can be made on request.

### Decommissioning:

Cord/String comes on core typically Ø76 without core, with cardboard core ø40-50, in plastic wrapper, often customized for each machine type.

When ordering, the cord/string layup and type of machine is very important to know. You should know in relation to the string tie the string to be used, the number of meters per rewind, termination method, geometric locked or tape.

### Elastic String

#### Related Areas:

Tying with bands which uses a plastic "band" being welded.

Wrapping with ribbon by using plastic or paper "band" that being welded.



STRING TYPE	Type	Item no.	Description
<b>POLYKORDEL</b>	300 M/KG HVID	56530365	Polycordel white, 2 kg / coil 6 coils per bag [sales unit] <b>Options</b> : 600 types are also available in the following colors: Blue, Green, Yellow, Red, Black, Orange: Price + 10%
	450 M/KG HVID	56545365	
	600 M/KG HVID	56560365	
	900 M/KG HVID	56590365	
<b>POLYBALLE - SNOW WHITE Ø4</b>	External drain with / without pipes	With 56450365	3/500 with / without pipe 145 mm, ø56 extra / ø48 inside 270 meters / coil - weight 1.8 kg / coil 6 coil / box
		Without 56450465	
	External drain with pipes - Good solid cord	56450366	2kg / coil is 294m / coil - Extra fixed quality. Pap core <b>Good for ball pressers</b>
<b>ELASTICS SNOWBANDS</b>	Elastic cord 1 core white	56010265	915 m / coil slap - 2900 m pulled out 12 rolls per box Diameter: Ø1,35
	Elastic cord 3 core white	56030205	430 m / coil slap - 1200 m pulled out 12 rolls per box Diameter: Ø1,6
<b>PE-SNOW FOR SNOW BINDERS</b>	1200PE white	56512365	6 rolls of 2kg per box are 12 kg Options: Colors Blue, Red, Green
	Polytape 2800PE White	56100135	10 rolls per box Brush strength: 150 N Also available in colors Blue, red, green, and with 25 to 38 kg breaking strength

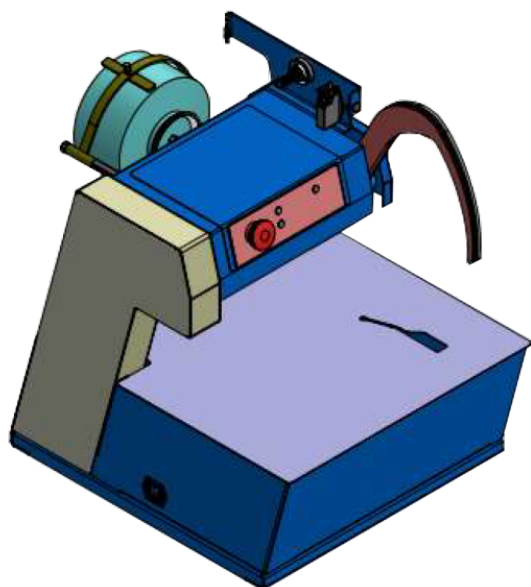


## STEP LSI Series

This is a highly versatile Binding Machine that can be used to wrap, tighten and knot products of all shapes, from bundles of vegetables, herbs, cut flowers and plants plus so much more.

### Features:

- Machine is Electric Operated
- Uses calibrated elastic or synthetic binding material (raffia)
- Makes knots without diameter restriction
- Binds without damaging the product
- Binds properly without wasting string thanks to its patented system
- Easy To clean
- Can also be used in various products such as: Electric Wires, Fabrics, Letters, Metal Sections and others.

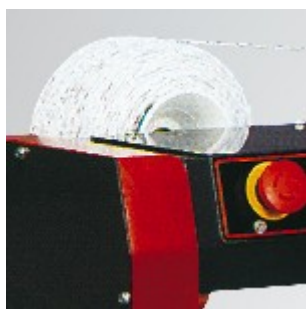


Left Version



Right Version

### BINDING



### KNOTTING



Model	STEP LSI 90			STEP LSI 175			STEP LSI 250		
Version (Binder)	Right	Left		Right	Left		Right	Left	
Capacity	90mm			175mm			250mm		
Weight	65 Kg			68.5 Kg			75 Kg		
Time of Cycle	Less than 1 sec.			Less than 1 sec.			Less than 1 sec.		
Knotting Time	0.66 sec.			0.66 sec.			0.66 sec.		
Knotting Materials	Elastics of Various Sizes, Synthetic Materials, Strings			Elastics of Various Sizes, Synthetic Materials, Strings			Elastics of Various Sizes, Synthetic Materials, Strings		
Power Supply	100/110VAC 1Ph	230VAC 1Ph	380VAC 3Ph	100/110VAC 1Ph	230VAC 1Ph	380VAC 3Ph	100/110VAC 1Ph	230VAC 1Ph	380VAC 3Ph
STEP Item No.	41330090 STEP LSI 90 Right			41330175 STEP LSI 175 Right			41330250 STEP LSI 250 Right		
	41330091 STEP LSI 90 Left			41330176 STEP LSI 175 Left			41330251 STEP LSI 250 Left		

## STEP SSB Binding Machine for Meat Products

Tying small products is no longer a problem with the "SSB" Stainless Steel Binding Machine.

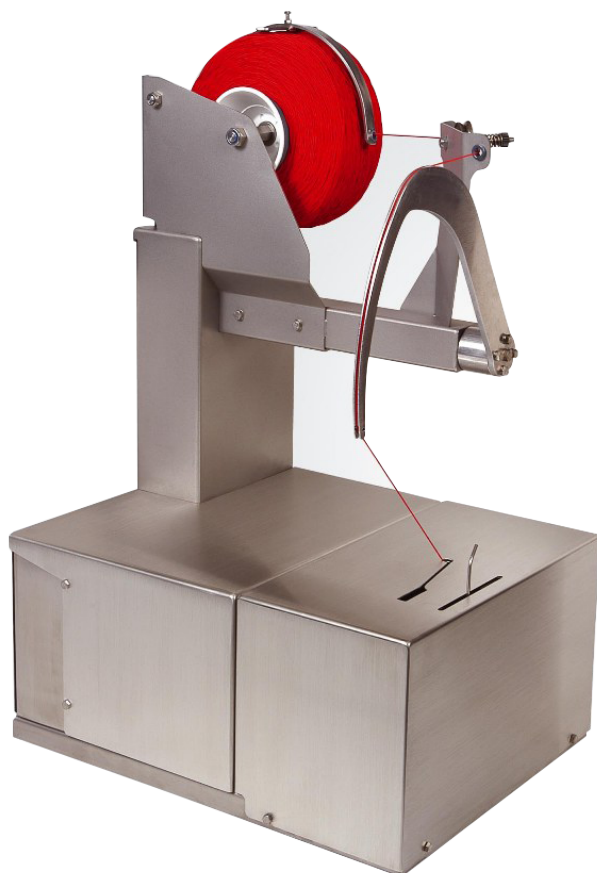
It is hygienic, easy to clean, robust and simple to use.

This binding machine:

- Uses calibrated food-grade elastic.
- Makes knots without diameter restriction
- Binds without damaging the product
- Binds properly without wasting string thanks to its patented system.

The STEP "SSB" may be installed on its own or integrated into a packingline.

The STEP "SSB" is the most advanced product in this field and benefits from improved quality, performance, reliability and wasy to use.



### Features:

- Robust
- Reliability
- Easy to use
- Easy to clean
- Hygienic
- Universal use
- Ties without waste
- Saving in consumable
- Food-grade stainless steel
- Possibility of compatibility with UL/CSA standards
- CE

Specifications	
Knotting time	0.44sec
Weight	38.5 Kg
Dimension	446x350x213mm
Power Supply	
230 VAC Single phase	
100/110 VAC Single phase	
Item no.	41331175



## STEP Polykordel UV Strings

Polykordel UV Strings or PP twines are strings these are high-tenacity twines made out of UV treated poly propylene yarns sold in DIY segments but it's also sold in other different segments. They are used in many different applications: for gardening, for packaging, for horticulture, and many others applications and it can be also used to close bags.



### Applications:



Supporting tomato crops with Polykordel strings to support their growth.



Polykordel Twine used to tie and secure the rope coils



SPECIFICATIONS				
Product Name	Polykordel UV 300	Polykordel UV 450	Polykordel UV 600	Polykordel UV 900
Color	White	White	White	White
Length	300m/kg	450m/kg	600m/kg	900m/kg
Type	Polykordel /PP	Polykordel /PP	Polykordel /PP	Polykordel /PP
Feel	Twine & Rope	Twine & Rope	Twine & Rope	Twine & Rope
Item No.	56530366	56545366	56560366	56590366



## FELINS TIERS

### PAK TYER 2000 – FELINS

Snorbinder, der er specielt velegnet til bundtning af små emner, der vanskeligt lader sig fiksere.  
Bordplade fra 400 x 550 mm for polytape, elastiksnor m.v.  
Mindste pakke ø 25mm / test.

MADE IN USA



**Pak Tyer 2000**



#### Frihøjde under knytte arm:

6": 150 mm  
8": 200 mm  
10": 250 mm  
12": 300 mm  
16": 400 mm  
22": 550 mm

#### Coil Tyer 2000:

Frihøjde under knytte arm 150 eller 200mm. Bordplade 400 x 550 mm, skråt afskåret således, at det er optimalt at binde opspolde ledninger, tråd mv. For polytape, elastiksnor m.v. Vægt ca. 65kg. Mindste pakke ca. ø 25mm Til binding af ring emner, kabler m.v. Mindste indvendig diameter 75mm.



#### Offset



#### Snorbindere

#### Vare nr.

##### Pak-Tyer 2000

2000-6	41300060
2000-8	41300080
2000-10	41300100
2000-12	41300120
2000-16	41300160
2000-22	41300220

##### Offset-Tyer 2000

2000-6	41301060
2000-10	41301100

##### Coil-Tyer 2000

2000-6	41310060
2000-8	41310080

##### Tandem-Tyer 2000

2000-6	41320060
2000-8	41320080
2000-10	41320100
2000-12	41320120

#### Ekstraudstyr:

Hærdede del tillæg	41309901
Sikkerheds fotocelle	41309902
Center flow arm	41309903
Start fotocelle	41309904
Vakuüm hale fjerner (VTR)	41309905
Vakuüm hale fjerner (VTR) Tandem Tyers	41309906
Elastic unspooler	41309907
Stop på bordplade (US Postal)	41309908
Forhøjet bord	41309909
Plan bordplade (Kun Offset)	41309910

## STEP LM-PS1 Semi- Automatic Hangtag Threader

This Semi- Automatic hang tag threader machine is specifically designed for different shapes of card and control by foot press.

### Features:

- It is cold cutting for elastic cord and non-elastic cord.
- It is feeding and stringing by hand, knotting and counting by machine.
- It is with high speed, stable running
- Easy to operate

The products which made from this machine are perfect, uniform and good quality. It is professional machine for producing all different tags. This machine is professional for all different shape card threading knotting with elastic string and non- elastic string.



SPECIFICATIONS:	
<b>Model</b>	STEP LM-PS1
<b>Speed</b>	1500-2500 pcs/hour
<b>Tag Size</b>	No limited
<b>Tag place the Height</b>	230mm
<b>String diameter</b>	0.3-1.2mm elastic cord and non-elastic cord
<b>Loop length</b>	75-200mm
<b>Knot tail</b>	10mm
<b>Tag hole diameter</b>	No limited
<b>Tag thickness:</b>	No limited
<b>Machine dimension:</b>	1300*1100*1300mm
<b>Machine weight:</b>	120kgs
<b>Voltage:</b>	220V, 50/60HZ, single phase
<b>Power:</b>	500W
<b>Item no.</b>	41342010

Special Project based solutions:

