Sal-Tech Easy Packaging Packaging Solutions String Tiers

WE KEEP THINGS TOGETHER

Machines and Materials



JC 3379 STEP Catalog TIE STRING MAY 2024

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 gereral for securing item with small diameters and cross sections.

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STRING TYING

Get the Best out of String Tying process.

Typical equipment for the String Tying:



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

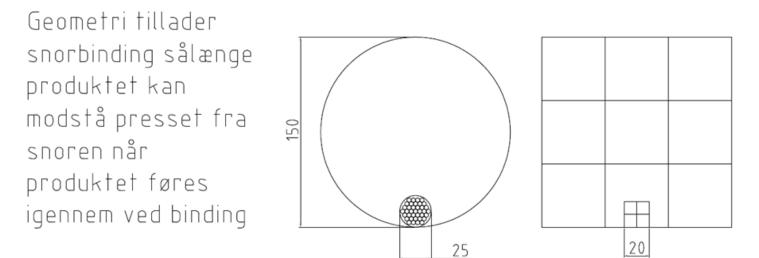
Automatic Rotating Tying Machine FR2 Series – Binds properly without wasting string thanks to its patented Kontting Mechanism system, suitable to be used for Horticulture, Vegtable and Electrical products, made from stainless material.

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.



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

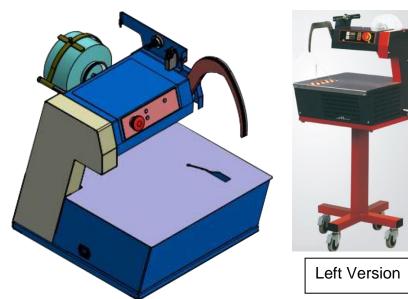
STEP LSI Series

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.







BINDING







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

Right Version

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, perfomance, 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		
ltem no. 41331175		









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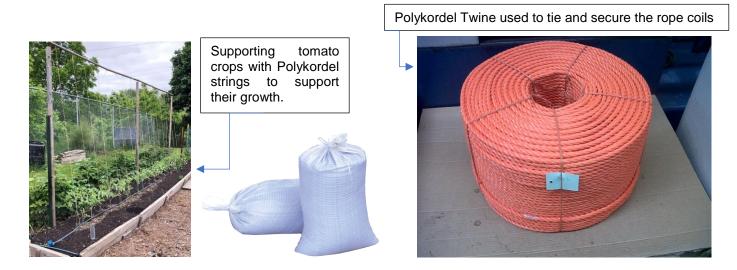
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STEP Polykordel UV Strings

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:



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
Туре	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

6": 150 mm

12": 300 mm

16": 400 mm

22": 550 mm

200 mm 10": 250 mm

8":

Frihøjde under knytte arm:

Offset



Coil Tyer 2000:

Frihøjde under knytte arm 150 eller 200mm. Bordplade 400 x 550 mm, skråt afskåret således, at det er optimalt at binde opspolede 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.



Snorbindere	Vare nr.
Pak-Tyer 2000	
2000-6 2000-8 2000-10 2000-12 2000-16	41300060 41300080 41300100 41300120 41300160
2000-22 Offset-Tyer 2000	41300220
2000-6 2000-10	41301060 41301100
Coil-Tyer 2000	
2000-6 2000-8	41310060 41310080
Tandem-Tyer 2000	
2000-6 2000-8 2000-10 2000-12	41320060 41320080 41320100 41320120
Ekstraudstyr: Hærdede del tillæg Sikkerheds fotocelle Center flow arm Start fotocelle Vakuum hale fjerner (VTR) Vakuum hale fjerner (VTR) Tandem Tyers Elastic unspooler Stop på bordplade (US Postal) Forhøjet bord	41309901 41309902 41309903 41309904 41309905 41309906 41309907 41309908 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:		
Model	STEP LM-PS1	
Speed	1500-2500 pcs/hour	
Tag Size	No limited	
Tag place the Height	230mm	
String diameter	0.3-1.2mmelastic cord and non-elastic cord	
Loop length	75-200mm	
Knot tail	10mm	
Tag hole diameter	No limited	
Tag thickness:	No limited	
Machine dimension:	1300*1100*1300mm	
Machine weight:	120kgs	
Voltage:	220V, 50/60HZ, single phase	
Power:	500W	
Item no.	41342010	





Special Project based solutions:



STEP LM-LY3 Full Automatic Tag Threader Machine

This high-speed automatic hang tag threader machine is designed for Japanese and Korean hang tags and cards. It uses cold cutting for non-elastic cords such as cotton, gold, silver, and nylon. The machine can punch holes, thread, knot, and count in one go. It can be controlled by either a PLC system or buttons, runs at high speed, operates stably, and is easy to use. The hang tags and cards produced by this machine are perfect, uniform, and of good quality. It is a professional machine for making hang tags and cards.



Features

- Cold Cutting for Non-Elastic Cords
- All-in-One Functionality
- Dual Control Options
- High Speed and Stability



SPECIFICATIONS		
Model	STEP LM-LY3 Full Automatic Tag Threader Machine	
Speed	4000-5000pcs/h	
Cord Diameter	1.2-2.1mm	
Tag Minimum Size	20 x 35mm	
Tag Maximum Size	90 x 150mm	
Cord Minimum Size	140mm	
Cord Maximum Size	400mm	
Tag Hole Diameter	3mm, 4mm, 5mm (change the mold)	
Machine Dimension	1200 x 1300 x 1500mm	
Weight	550 kgs	
Power	380V/220V, 50HZ/60HZ, 750W	
Item Number	41342030	

SPECIFICATIONS

STEP TL-LY8-U2 Full Automatic

Paper car air freshener knotting machine (PLC control)

The STEP TL-LY8-U2 is an advanced hangtag-stringing machine designed specifically for stringing paper car air fresheners. It integrates several functions such as tag loading, hole punching, stringing, knotting, and counting in one seamless operation. This version distinguishes itself from its predecessor (TL-LY8-U) by adding the automatic holepunching capability, making it more versatile in handling various tag shapes. The machine operates with a speed of 3600-4000 pieces per hour and features a cold cutting mechanism.



Features:

- Automated Operations
- High Speed
- Versatile Tag Processing
- Adjustable Stringing
- User-Friendly Controls





Speed	3600-4000
Tag Size Range	Minimum 20 x 35 mm to maximum 90 x 150 mm
Power Supply	220V, single phase, 50/60 Hz
Power Consumption	0.75 kW
Weight	416 kg
STEP Item No.	41342020

SPECIFICATIONS

STEP UMX250D Automatic Air Fresheners Packaging Machine

This machine adopts PLC programmable intellectualized User-Interface Control, hence ensuring steady performance with a lower fault rate and ease of operation. Additionally, the full set of steady electrical systems can keep the machine in a long working state.



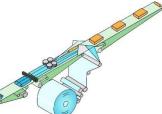
The packing of the product can be controlled by the color label on the film or the bag length set

on the machine. The photoelectric sensor can accurately detect the position of the color label on the film and can be adjusted by the compensation dosage. This enables the automatic packing of products with Automatic bag Making - Filling - Sealing - Cutting - Finished Product Conveying.

Features

- Automated Packaging
- Versatile Packaging Options
- Advanced Technology
- User-Friendly Interface
- Durable Construction





SPECIFICATIONS	
Model	STEP UMX250D Automatic Air Fresheners Packaging Machine
Packaging type	Three Seals Type H (back sealing)
Packing Film	OPP,PE,PVC,PET/PE,OPP/CPP,Paper/PE,PE T/aluminum film/PE etc
Max. film width	250mm
Packaging speed	20-180 bags/min
Packaging film thickness	0.03-0.06mm
Packaging size of bag	L:50-200mm W:25-100mm H:≤35mm
Power requirement	220V/60HZ 3 phase
Total Power	2.4KW
Overall dimensions	L*W*H 4200mm×600mm×1400mm
Full weight	650KG
Item Number	43860250