Sal-Tech Easy Packaging Packaging Solutions Pallet Wrapping Machines





WE KEEP THINGS TOGETHER

Machines, Tools and Materials



Packaging Made Simple

How do you get the best out of Pallet Wrapping

Typical Equipment for Pallet Wrapping:



Process: The development provides a film around one or more products with the aim to stabilize protect and secure the cargo from tampering or theft. There are two main methods of the Pallet Wrapping process; the Vertical Development and the Horizontal Development. The highly stretchable film is wrapped around the item while adjusting the tension, the film provides secondary protection. Other products which can't resist the tension of the film can be, in principle be damaged. It is thus important that the product packaging are stabilized and maintained before and during the wrapping process.

Pre-Treatment of the Film by winding:

- Brake Pre-Stretching directly from the roll, the core is slowed down while the product / pallet pulling the film from the
- Brake Pre-Stretching using the roller system, and then brake rollers while the product / pallet pulls the film through the rollers.
 - Mechanically adjustable brake pre-stretch
 - Magnetic / Electric adjustable brake pre-stretch
- Motorized Pre-Stretching through the roller system, rollers regulated product is filmed with minimal tension.
 - Fixed for pre stretch degree
 - Variable for pre stretch grad
- The pre-processed sheet which is used in connection with the above-mentioned processes.
 - o Fort Solid Film
 - o Perforated Film

Concepts of Pallet Wrapping Vertical Development:

- Pallet Wrapping Basics: The pallet is wrapped to provide protection and stability of the product for day-to-day transportation.
 - Normal. Clear film for the general distribution
 - Pallet Wrapping and Storage: The pallet is wrapped for stability and protection of the product over time,
 - Dustproof pallet wrapping, top film used
 - Waterproof pallet wrapping, top film used
 - UV light protection for the product
 - Black film for theft/tamper proofing "expensive" products
 - Film with special properties such as anti-rust etc.
 - The sealing of the product
 - Other variables in the wrapping process:
 - Number of top and bottom turns. This is governed either by time or by number. Number is the best solution.
 - The Cycle:
 - Bottom top bottom
 - Bottom high speed to the top bottom
 - Top bottom
 - Bottom mid position top bottom
 - Bottom top level down under top film- pause top bottom

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Pallet Wrapping Machines

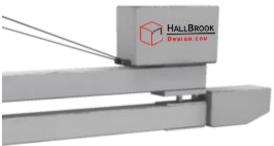


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Hallbrook E3 WRAP 2100 Pallet Wrapper - Our Concept

The proven concept, with more than 75 machines installed. The E3 Wrap 2100 is a simple yet effective design, engineered for efficiency. This innovative pallet wrapper is part of the Hallbrook E3Wrap Series of pallet wrapping machines. E3 or "E Cube" stands for Ergonomic, Economic, and Eco-friendly. It is very easy to assemble and install and maintenance friendly.





750mm Wide Film

Hallbrook E³Wrap 2100 uses a 750mm wide film which enables the wrapper to wrap a standard pallet with minimum number of revolution faster and safer than most pallet wrapper.

Why by a E3 Wrap 2100 Pallet Wrapper?

10 simple reasons:

- 1. Wraps your pallets safe, fast and easy. Be Lazy, don't get dizzy, let your pallet wrapper do it.
- 2. No Hill No ramp. Any pallet wagon, electrical truck or loader can place the pallet on the floor, and the pallet can weigh whatever the floor can carry.
- 3. Easy to clean the floor, no rusting parts placed or embedded on the floor. No ramp that blocks the floor area, no turntable that rusts in the food industry with wash down.
- 4. Small investment great value. Prices from less than 2000 USD/15.000DKK. And you can secure best price of film per pallet wrapped.
- 5. Fast, wraps a full height pallet 2200mm in less than 2 minutes. A normal 1200mm just one minute.
- 6. Ergonomic features "Easy Load" of film rolls less than 11kgs, anyone can handle these, no heavy lifting, and then again no hill to push a heavy pallet up on.
- 7. Rotation diameter 1910mm, allowing 1200x1200mm and 900x1350mm pallets.
- 8. Can sit in hallways and other tight areas without blocking the throughway.
- 9. It can be installed on most types of walls or we can supply a pole solution for floor mounting.
- 10. And not least "Greener", optimal film economy as it presents higher usage degree of film, better cross pull, less use of electrical power per pallet wrapped, less waist per roll on core material, less air shipped per pallet of film.

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THE WALL's of E3.

Made in Denmark



The proven concept, that makes it easy to solve difficult applications as well as the basic and simple daily pallet wrapper applications and demands.

Hallbrook E3 WRAP 2100 Pallet Wrapper

For hanging on the wall, with option POLE for floor mounting. Uses E3 wrap film with optionto use standard hand wrap. Takes up very little space when parked and can sit in hallways. Easy to clean the floor no rusting parts or need for embadding. Easy to install - DIY. And remember No Ramp - No Hill and easy to use for everyone

Specifications standard basic configuration		
Wrap Speed	2200mm high pallet arround 90 seconds 1000mm high pallet less than 60 seconds	
Max Pallet Size	1200x1200xH2200mm – Takes the big pallets - all standard	
Turning free diameter	Ø2000mm with fix-stop and 360 degree full access, no ramp	
Pallet Weight	No weight limitations for the load/pallet, 50kgs to 10tons	
Net Weight	60 kg - Easy to ship anywhere ### WRAPPER IN A BOX ###	
Electrical Requirements	Single Phase according to Local Standard. Change over via switch	

Options:

- Pallet height 2700mm/3000mm.
- LARGO, turning diameter 2500mm, pallet 2000x600mm.
- PLUS 25 aggregat, 25% pull through pre stretch
- Motor controller for overlap adjustment.
- Adaptor for handwrap Ø50 x 450/500mm
- POLE H3000mm, for floor mounting, or for higher as option.
- SCALE floor placed machine with pallet scale for 2000 kg.
- Special applications on demand



E3 Wrap LARGO with POLE, note no ramp no hill ©



Hallbrook E3 Wrap Film Standard Range

The Hallbrook E3Wrap Film is a high quality LLDPE stretch wrapping film. It is available in various colors and thickness and it is compatible with a wide variety of wrapping machines and hand tools.

Item no. of standard film types:

Color Thickness	8 my	10my	12 my	15 my	17 my	20my	23my
Film length [m] per roll	1818	1350	1125	925	800	675	585
Stretch % minimum,	200%	200%	200%	200%	200%	150%	150%
elongation							
Clear - Transparent	54750800	54751000	54751200	54751500	54751700	54752000	54752300
Black , Non transparent					54751710	54752010	54752310
Blue, Transparent	54750820	54751020	54751220	54751520	54751720	54752020	54752320
Green, Transparent	54750850	54751050	54751250	54751550	54751750	54752050	54752350
White, semi Transparent					54751760	54752060	54752360

The E3 Wrap Film is the best film for the HALLBROOK E3 Wrap 2100 and E3 Wrap 2200. The E3 Wrap 2100 is an innovative pallet wrapper from Hallbrook Design, which eliminates the need for a ramp to load the pallet to the machine like the usual standard pallet wrappers.

Specifications	
Film Material	LLDPE, oktene LDPE
Elongation	150% to 200% min stretch
Dimension of Roll	Core Dimension ø38/Ø53 x 770mm Film on core 750mm x Ø140 maximum
Fill Thickness	8my, 10my, 12my, 15my, 17my, 20my and 23 my.
Film Width	750mm
Film Length per Roll	See above chart
Colors	Transparent, black, white, blue, red, green
Core Material	Paper wound core (ø38/Ø53x 770mm)
Weight	Core weight approx: 620gram Film weight approx: 9,315kg Box of 1 roll approx: 10,2kg gross
Packaging of Film Material	1 roll per box, 150x150x780mm 35/70 boxes per layer/pallet 1050x750mm



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35/70 Rolls per pallet - Greener

The Hallbrook E³Wrap film saves on air when being shipped. 15 pallets per 20 container rather than 8 normally. Less air on each pallet as the core is Ø38 and even the core weight is reduced to 620gram, normally above 2kgs, making E3 Film a greener and less carbon foot print product.

Hallbrook E3 Wrap 2200

Wrapper has all the basic functions a stretch film wrapper should have, and still light on the investment demand. Designed for easy use. The Hallbrook E3 Wrap 2200 is ergonomically designed to lessen the workload of the user while maximizing the work output.

Features

- Easy to Operate
- Simple Wrap Solution
- Soft Start and Fix Stop
- Variable Turn-Table Speed
- Uses 750mm wide film
- Can Wrap Pallets up to 2000mm in height
- · Light on Investment, High Quality.

750mm Wide Film

Hallbrook E3 Wrap 2200 also uses the high quality E3Wrap Film which is a 750mm wide film which enables the wrapper to wrap a standard pallet with minimum number of rotations.



2000mm Wrapping Height

Together with the 750mm wide E3Wrap Film, The HBD E3 Wrap 2200 also enables you to wrap pallets up to 2000mm in height.

Option for 2500/3000mm

Easy Start and Stop

PLC Control and the easily accessible Start/Stop Button lets you focus more on getting the job done. It also has a Fix Stop feature where the turntable stops at exactly where it starts so it will be easier to change pallets..

Low Turn Table Plate and Ramp

The machine features a 43mm High Capacity turn table lets you easily mount the pallets for faster wrapping interval. The turn table can wrap a maximum of 1200kg pallet.



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SpecificationsMaximum Wrapping Height2000/2500/3000mm free choice on order.Film Roll Width750 mmWrapping SpeedUp to 100 pallets a dayPower Supply110/220/230V-50/60Hz Single Phase

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Topfilm Dispenser Floor Placed

Topfilm dispensor for roll width 1500 or 1800 mm, for placing directly on the floor.

Standard version painted, but can be produced as galvanized as shown or in stainless steel version.

44201500 For 1500 mm wide film roll

44201800 For 1800 mm wide film roll

We also can produce special demands as to width of dispenser and stainless steel.

Shown standard painted version and full galvanized.





Topfilm Dispenser Wall Mounted

Topfilm dispenser for roll width 1500mm, for hanging directly on the wall

This way it is easy to pull the film directly across the pallet situated on the stretch film wrapper. The roll is carried using a alu tube through the core then placed in the bearing sets.



Standard version is galvanized steel and in aluminum, but can be produced as a stainless steel/aluminum version.

44211500 For 1500 mm wide film roll 44211800 For 1800 mm wide film roll

We also can produce special demands as to width of dispenser.

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STEP Advance Pallet Wrapper Fully Automatic Horseshoe turntable

This pallet wrapping machine uses LLDPE stretch film as the main packing material to wrap the bulk cargos stacked on the pallet. The M shaped or horseshoe turntable allows for manual equipment like pallet jacks to be used and others for loading. Designed with automatic cut & clamp system, Remote control and LCD Touchscreen and uses first class spare parts.

Widely used in industries such as tools, electronics, paper, glassware and others.

Features:

- Turntable: Ø1650mm No Ramp Horseshoe type
- Max pallet height: 2350mm Pre-stretch: 300% Rate
- SIEMENS Inverter
- SIEMENS PLC control SIEMENS Touch Screen
- Auto Wrapping Force
- Auto Cutting & Clamp
- ABS Steel Frame Machine Body

Applications:







Specifications	
Product Name	STEP Advance Pallet Wrapper Fully Automatic Horseshoe turntable
Maximum wrapping speed	20-25 loads/hour
Load Size Diagonal	1753mm
Maximum Wrapping Height	2400mm
Turntable Speed	0-12RPM(Adjustable)
Turntable Size	1650mm
Turntable Drive	1PH
Standard Film Width	500mm
Standard Pre-Stretch	300% pre-stretch
Wrap Force	Variable (Electric)
Film Capacity	250mm Diameter
Film Delivery System	Power Roller -Stretch Plus
Maximum Load Weight	800KG
Machine Weight	680KG
Machine Size	L:2850mm W:1650mm H:2675mm
Voltage	110V/220V/50/60HZ
STEP Item No.	43010500

STEP Advance Pallet Wrapper Ø1800/H2350

Pallet Wrapping machine that is designed for Ø1800mm turntable and wraps to max. packing height of 2350mm. Equipped with a remote-control system and Automatic Cut and Clamp Film wrapping as this practically hands-free wrapping.

Features:

- High efficiency and low electricity-consumption, convenient in operation.
- The wrapping type and times can be designed on customers' requirements.
- Photoelectric sensor test pallet height automatic
- Auto reset of turn table
- Pre-stretch ratio: 300%
- Programmable control and frequency converter is available.
- PLC control, manual optional. Wrap cycle (top, bottom, reinforcement) adjustment.

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- Variable lift speed/ film tension control. Film up/down controls.
- Pallet stretch wrapping machine soft start and soft stop.
- Suitable for heavy pallet
- Remote control system, fully automatic cut and clamp film

Applications:







Specifications	
Load weight	Max. 1500 Kg
Turntable speed	3-12 RPM/mins
Turntable size	1800mm
Pre-stretch rate	300% (1m stretched to 3 m)
Up& down speed	1.5 ~5.5 m/mins
Wrapping speed	30 - 40 load / H (1x1.2x1.8m pallet Wrap 2 Layers)
Film Width	500mm (750mm optional)
Film diameter	250mm
Film paper Core	76 mm (50 mm optional)
Film weight	Maximum 15KG
Machine power	1.5KW
Machine weight	750 Kg
Machine size	2950*1800*2745mm(L*W*H)
Wrapping force	Adjustable
Product Memory	Five Modes
Cut film clamp film	Automatic (Heat type)
PLC	SIEMENS
Inverter	SIEMENS
Touch screen	SIEMENS
Sensor brand	SICK (Germany Brand)
Safety device	film carriage pressure-proof device
Certificate	CE
STEP Item No.	43010490

STEP S300 Fully Auto Pallet Wrapper is a 300% prestretch rate, saving 30% film compared to a typical pallet wrapping machine.

- Save Packing Supplies
- Pallet gripping mechanism that works automatically
- Intelligent Control Panel
- Turntable with Slewing Bearings
- Conveyor that is long-lasting
- Heat type cut & clamp film function in a new design
- Control System SIEMENS
- Remote control System



Specifications:	
Maximum wrapping speed	25-30 loads/hour
Load Size	1.2x1.2m
Maximum Wrapping Height	2300mm
Turntable Speed	0-16RPM(Adjustable)
Turntable Size	1800mm(length side)
Turntable Drive	1.5PH
Film &Clamp Cut	Automatic (Heat type)
Max load weight	2000KG
Standard Film Width	500mm
Constant Film Delivery Force	Standard
Standard Pre-Stretch	250% pre-stretch
Roller Materials	Galvanized Roller diameter:76mm
Film Capacity	250mm Diameter
Film Delivery System	Power Roller -Stretch Plus
Film Rope System	Optional
Weighing Scale	Optional
Machine Weight	1200KG
Machine Size	L:2800mm W:1900mm H:3200mm
Turntable technology	Slewing Ring
Voltage	230V/50HZ 1phase
STEP Item no.:	43010300



STEP S300-TS Fully Auto Pallet Wrapper with Top Sheet Dispenser

STEP S300-TS Fully Auto Pallet Wrapper with Top Sheet Dispenser wrap the bulk cargos piled on the pallet with LLDPE stretch film as the primary packing material. Additionally, shrink Film gives additional support during shipping and storage to prevent them from dust, moisture, and damage.

- 1. Automatic pallet gripping
- 2. Intelligent Control Panel
- 3. Turntable with Slewing Bearings
- 4. SIEMENS Control System
- 5. System of Remote Control

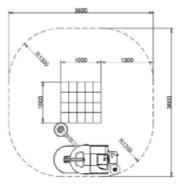


Specifications:	
Model	STEP S300-TS Fully Auto Pallet Wrapper with Top Sheet Dispenser
Maximum wrapping speed	15-20loads/hour
Load Size	1200x1200mm
Maximum Wrapping Height	2000/2400mm
Turntable Speed	3-16RPM(Adjustable)
Turntable width	1350mm
Turntable working height	500-700mm
Stretch Film &Clamp Cut	Automatic
Max load weight	2000KG
Standard Wrapping Film Width	500mm
Standard Pre-Stretch	100%/200%/250%pre-stretch
Stretch Film Capacity	250mm Diameter
Top sheet Film &Clamp	Pneumatic Clamp + Moving Cutter break film
Top Sheet Film size	1500-1600mm
Roller Materials	Galvanized Roller diameter:76mm
Air pressure	0.6-0.8PIS
Film Rope System	Optional
Weighing Scale	Optional
Machine Weight	1200KG
Machine Size	L:3126mm W:2879mm H:3511mm
Voltage	230V/50HZ 1phase
STEP Item no.	43010310

STEP ROBOT PALLET WRAPPER- BRAKE or 300% Pre Stretch

STEP Robot Pallet Wrapper brake or 300% pre stretch is a self-propelled stretch-film wrapping robot for palletized loads with different shapes, sizes and weight. It is equipped with a digital color display 7,2" that allows, in a very simple and functional way, to regulate the programs and the wrapping parameters easily.

- Mast hinged at the base for easy and quick installation
- Film carriage by transmission chain
- Mast height: 2400 mm (useful height 2300 mm)
- · High frequency battery charger integrated
- 2 AGV battery12 volt 120 Ah serial connected
- Operating temperature range: +0° C to + 40 ° C
- Mechanical brake or powered pre-stretch (230 300%)
- Emergency stop in compliance with CE regulations
- Safety bumper
- Full charge cycle time of 8 hours
- Max.speed rotation: 90 m / min
- Lateral contact wheel with adjustable height
- Lateral holes for forklifting of the machine
- Control panel with color 7,2" touch screen
- Machine controlled by PLC SIEMENS S7/1200
- Indication alarms
- Acoustic wearning and lamp at the cycle start
- Up to 150 pallets (W 800 x L1200 x 1500 mm)
- Emergency wheel in case of low battery







Specifications:		
	STEP ROBOT PALLET	STEP ROBOT PALLET WRAPPER
	WRAPPER BRAKE	300%
Carriage	Mechanical brake carriage	Powered pre-stretch film carriage
Pallet dimensions	Min: 600 x 600 mm	Min: 600 x 600 mm
	Max: no limit	Max: no limit
Driving speed	35-90 mt/min	35-90 mt/min
Carriage up & down speed	1,4 – 5 m/min	1,4 – 5 rpm
Power supply charger	230 volts 1 ph – 50/60 Hz	230 volts 1 ph – 50/60 Hz
Forklifting	Side	Side
Product features		
Product dimensions	Min 600 X 600 mm	Min 600 X 600 mm
Max product height	2300mm	2300mm
Max loading capacity	No limit	No limit
Film roll features		
Film roll external diameters	280 mm	280 mm
Film roll height	500 mm	500 mm
Film roll thickness	12 – 35 my	12 – 35 my
Film roll internal diameter	76 mm	76 mm
Film roll max weight	20 Kg	20 Kg
STEP Item no.:	43011010	43011030





Options for STEP EASY WRAP pallet wrappers:

Vare nr.	Beskrivelse
43468010	- turnatable 1650 mm
43468020	- turnatable 1800 mm
43468030	- turnatable 2000 mm
43468040	- turnatable 2200 mm
43468050	- mast height 2700 mm
43468060	- mast height 3000 mm
43468070	- access ramp 1500 mm
43468080	- access ramp 1650 mm
43468090	- access ramp 1800 mm
43468100	- access ramp 2000 mm
43468110	- access ramp 2200 mm
43468120	- pit frame 1500 mm
43468130	- pit frame 1650 mm
43468140	- pit frame 1800 mm
43468150	- pit frame 2000 mm
43468160	- pit frame 2200 mm
43468170	- Photo cell for black film
43508010	Frame for flower wagon Ø1500
43508030	Frame for quarter pallet
43508040	Frame for half pallet
44201500	Top film dispenser floor type 1500mm wide
44211500	Top film dispenser wall type 1500mm wide
44201800	Top film dispenser floor type 1800mm wide
44211800	Top film dispenser wall type 1800mm wide
OPTIONS FOR	STEP WRAPPERS - DATA CAPTURE
43508100	Scale for infloor mounting ø1500
43508110	Scale for infloor mounting ø1650
43508120	Scale for on floor placing ø1500
43508130	Scale for on floor placing ø1650
43509000	Barcode Scanner manual
43509010	Software for data capture/control BASIC
43509020	Height measurement module
43509030	Cam recorder 1 image still LOW resolution
43509040	Cam recorder 1 image still HIGH resolution
43509050	Cam recorder video with software
43509200	STEP Security BAND device





STEP WRAP 3700 Fully Automatic Pallet Wrapper



- For EURO Pallet 800x1200mm
- Turntable diameter Ø1800mm
- Turntable height 500mm
- Wrap height 2000mm
- Max load 2000kg
- Capacity 25-45 pallets/hour
- **300%** film motor prestretch
- Electrical connection 3x380VAC
- Air pressure 0,4-0,7Mpa
- Adapted to demands
- Item no.: 43083700



STEP WRAP 3700 & 3800 shown together

STEP WRAP 3800 Top Film Dispenser

STEP WRAP 3800 Top sheet dispenser can be integrated with STEP Wrap 3700 Pallet Wrapper Fully automatic, to achieve top cover and wrapping of loads. So the loads can be fully prevent from rain drop.



Product advantage

- In-line use, automatic cover the top of loads.
- Can be integrated with STEP Wrap 3700 Pallet Wrapper Fully Automatic.

SPECIFICATIONS	
Packing Speed	25-45 pallets/hour
Conveyor Height	500+/- 30mm
Top dispensing unit lift speed	3m/min
Top sheet cut method	Knife cutting rodless cylinder
Top sheet pulling speed	12m/min
Top sheet size	W 1700mm, Length is
	adjustable
Conveyor height	600mm (can be customize)
PE film:	PE film, thickness 50- 75microns, width1600- 1700mm, net weight 120kgs max
Air pressure	0.4-0.7 Mpa
Control system	PLC
Voltage	3 Phase 5-line AC 380V 50Hz
STEP Item No. for Top Sheet Dispenser	43083800

Features:

- This is conveyorized wrapper for automated unmanned packing lines.
- Machine automatically detects loads and load height, and starts dispensing process.
- Automatically cut top sheet by motor driven knife.
- Top Sheet changing location for easy sheet roll change.
- Top sheet dispensing speed and conveyor speed variable.
- Top sheet off alarm.
- This machine could be integrated with STEP Wrap 3700 Pallet Wrapper Fully Automatic

Options:

- Load size and height could be custom made to specific applications.
- Safety fencing for better protection of operators Under conveyor.
- Top sheet lifting crane for loading of sheet roll.

STEP WRAP 4000 Fully Automatic Pallet Wrapper



Features:

- Rotary speed, film carriage speed and the film tension can adjustable
- Automatic stretch film application & cutting is Pneumatically driven
- Equipped with Automatic height detection by photocell
- Machine is equipped with various durable top of the line components
- Equipped with Alarm and Emergency Button for Operators Safety
- PLC Controls the whole system with User Friendly Control Panel (HMI)
- Option for Powered IN/OUT feed Roller Conveyors. Rollers made of galvanized carbon steel to fit needed layout as per your demand.
- · Option to include topfilm dispenser
- Options per project request.
- Option: Wrap heights 1800, 2400 or 2600mm, or per request.
- Option: Safety fence per layout 17onfiguration

SPECIFICATIONS		
Packing Speed	40-50 pallets/hour	
Film Aggregate	Single carriage motorized 250% pre stretch adjustable tension control	
Rotation Speed	4-20 rpm (Adjustable)	
Carriage Speed	6m/min (Adjustable)	
Wrappign height default	500-2100mm with photocell for pallet height detection	
Cutting of film	Heater cutting system	
Conveyor height	500mm (can be customize)	
Machine film LLDPE film:	LLDPE film, thickness 17-35micron, width 500mm, core ø76, max	
	diameter Ø250mm, weight 20kgs max	
Air pressure	0.4-0.7 Mpa	
Control system	PLC+HMI+ Frequency inverter	
Voltage	3 Phase 5-line AC 380V 50Hz	
STEP Item No.	43084000	

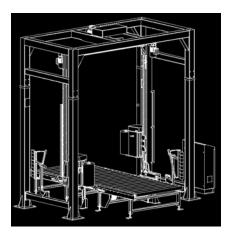
STEP WRAP 4100 Top Sheet Dispenser Inline

- Equipped with Automatic height detection by photocell
- Machine is equipped with various durable top of the line components
- Equipped with Alarm and Emergency Button for Operators Safety
- PLC Controls the whole system with User Friendly Control Panel (HMI)
- Powered Roller Conveyor Line is made of galvanized carbon steel

SPECIFICATIONS	
Packing Speed	50 pallets/hour
Top sheet cut method	Knife cutting
Top sheet pulling speed	12m/min
Top sheet size	W 1700mm, Length is
	adjustable
Conveyor height	500mm (can be customize)
	PE film, thickness 50-
PF film:	75microns, width1600-
PE IIIII .	1700mm, net weight 120kgs
	max
Air pressure	0.4-0.7 Mpa
Control system	PLC+HMI+ Frequency
	inverter as per project
Voltage	3 Phase 5-line AC 380V 50Hz
STEP Item No. for Top Sheet Dispenser	43084100



STEP WRAP 4200 L3D Fully Automatic Pallet Wrapper HIGH SPEED



Features:

- Rotary speed, film carriage speed and the film tension can adjustable
- Automatic stretch film application & cutting is Pneumatically driven
- Equipped with Automatic height detection by photocell
- Machine is equipped with various durable top of the line components
- Equipped with Alarm and Emergency Button for Operators Safety
- PLC Controls the whole system with User Friendly Control Panel (HMI)
- Option for Powered IN/OUT feed Roller Conveyors. Rollers made of galvanized carbon steel to fit needed layout as per your demand.
- Option to include topfilm dispenser
- Options per project request.
- Option: Wrap heights 1800, 2400 or 2600mm, or per request.
- Option: Safety fence per layout 18onfiguration

SPECIFICATIONS	
Packing Speed	50-60 pallets/hour
Film Aggregate	Double carriage motorized 250% pre stretch adjustable tension control
Rotation Speed	4-20 rpm (Adjustable)
Carriage Speed	6m/min (Adjustable)
Wrappign height default	500-2100mm with photocell for pallet height detection
Cutting of film	Heater cutting system
Conveyor height	500mm (can be customize)
Machine film LLDPE film:	LLDPE film, thickness 17-35micron, width 500mm, core ø76, max diameter Ø250mm, weight 20kgs max
Air pressure	0.4-0.7 Mpa
Control system	PLC+HMI+ Frequency inverter
Voltage	3 Phase 5-line AC 380V 50Hz
STEP Item No.	43084200

STEP WRAP 5000 L5 Fully Automatic Double Rotary Arm **Stretch Wrapper with Top Sheet Dispenser**

STEP WRAP 5000 L5 Fully Automatic Double Rotary Arm Stretch Wrapper with Top Sheet Dispenser – is designed and equipped with Double Film Carriage, one for each side to properly secure the wrapping. Equipped with a Top Sheet Dispenser installed on top of the conveyor line, suitable for products that need watertight wrapping.

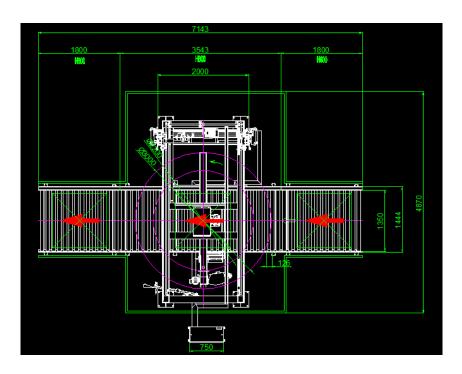
Features:

- Rotary speed, film carriage speed and the film tension can adjustable
- Automatic stretch film application & cutting is Pneumatically driven
- Equipped with Automatic height detection by photocell
- Machine is equipped with various durable top of the line components
- Equipped with Alarm and Emergency Button for **Operators Safety**
- PLC Controls the whole system with User Friendly Control Panel (HMI)
- Powered Roller Conveyor Line is made of galvanized carbon steel
- Item no. 43085000



Extras and Conveyors for 4308NNNN series of machines:

Description of Option	STEP Item No. of Option			
Roller conveyor Width	Width 900mm	Width 1150	Width 1350	
1500mm powered Roller conveyor line	43089010-900-1500	43089010-1150-1500	43089010-1350-1500	
1800mm powered roller conveyor line	43089010-900-1800	43089010-1150-1800	43089010-1350-1800	
2500mm powered roller conveyor line	43089010-900-2500	43089010-1150-2500	43089010-1350-2500	
3200mm powered Roller conveyor line	43089010-900-3200	43089010-1150-3200	43089010-1350-3200	
3600mm powered Roller conveyor line	43089010-900-3600	43089010-1150-3600	43089010-1350-3600	
Topsheet dispenser	43089010-110 STEP Wrap 4100 Top Sheet Dispenser, see following page			
Cafatu fanaa width 1000m*112000mm	43089010-130			
Safety fence width 1000m*H2000mm	(price will be quoted per meter and configuration as per layout			
Safety light curtain	43089010-140			
Forklift stopper	43089010-150			
Safety door lock	43089010-160			
Control system with PLC, HMI &	43089010-170-JC N			
Frequency control of conveyor and	(Price will be quoted b	pased on actual layout and	d configuration)	
safety system according to layout				







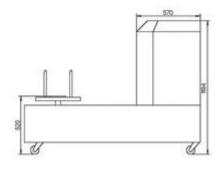
Luggage wrapper is designed to wrap luggage and related items for security purpose in airport. Filmprovide extra support while the luggage is being transport to protect from being damaged. The operator places the luggage on the platform and adjusts vertical rods to secure bag according the luggage's size.

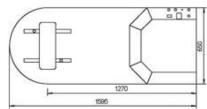
- PLC control screen
- Brake film stretch aggregate for 500 or 750 mm film width
- Operator adjusts vertical rods to secure bag
- Film tension control adjustment on the panel or mechanical
- Wrap layer adjuster
- Platform speed 0-20RPM
- Machine easy to be moved by one person











SPECIFICATIONS		
Туре	STEP E3 Luggage Wrap 500/500	STEP E3 Luggage Wrapper 750/1500
Max. Packing size (mm)	400-1200(L)x180-400(W)x300-600(H)	400-1200(L) x 200 -500(w) x 250- 150(H)mm
Origine	Asia	EU
Rotating speed	0-20 RPM	0-20 RPM
Power supply	220V/50Hz/1 Phase: 0.5kw	220V/50Hz/1 Phase: 0.5kw
Weight capacity	100kg	100kg
Packing materials stretch film width	500mm	750mm for faster wrapping completion
Aggregate type	Prestretch adjustable	Brake Prestretch Adjustable
Dimension (mm)	650(W)x1570(L)x1200(H)	800(W) x 1750(L) x 1900 (H)
Machine weight	200kg	260kg
Item number:	43700010	43700030

STEP Model 200 - Semi Automatic Pallet Stretch Wrapper

Item no.: 43050200

Semi-automatic stretch wrapper: detect pallet's height while making an optimized wrapping compared to a manual wrapping. At the end of the cycle they require the presence of an operator to cut the film and remove the pallet. The load is introduced and positioned on the turntable. Then, the turntable begins to turn at the speed selected depending on the wrapping cycle. Finally, the turntable turns the whole cycle until the final step when the film is cut manually.

Technical features.

- Production (as operator and load): up to 20 pallets/hour.
- PLC controlled, with display control panel.
- Hinged mast.
- Powered film carriage with variable speed, placed sidewise.
- Adjustable mechanical film brake with foot trapping detector.
- · Automatic load height detection by photocell.
- 1.650 mm diameter turntable, 10 mm thick plate.
- Soft start/stop by frequency inverter with return to start position.
- 4 wrapping programs: Single, Cross wrap, Cross-plus, Full.
- Wrapping cycles counter.
- Independently adjustable top & bottom reinforcement wraps.
- Reinforcement wraps at any point in the cycle.
- Ergonomically designed control panel.
- Variable output, depending on load features and operator ability.
- Power: based on the country of destination.
- Installed power: 1 kw.

Standard pallet features (others on demand)

- Type of wrapping: Vertical.
- Maximum height: Up to 2.400 mm (consult about other heights).
- Maximum dimensions pallet and load: 1.200 x 1.100 mm
 - o (consult about other dimensions).
- Maximum weight: 2.000 kg.

Coil specifications

- PE sheet.
- Width: 500mm.
- Thickness: Up to 50 microns.

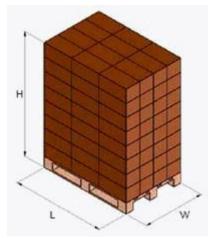
Versions

- Stainless steel 430, 304.
- Explosion proof.
- Subzero temperatures.

Options

- Special heights: 2.800 mm, 3.000 mm.
- Special turntables: Ø 2.000 mm, Ø 2.400 mm, Ø 3.000 mm.
- Special weights: 3.000 Kg.





Accessories

- Turntable accessing ramp.
- 2. Embedding frame.
- 3. Scale with display.
- 4. Direct film brake.
- 5. Mechanical film brake (std.).
- 6. Electromagnetic film brake.





*Requires security fencing

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This STEP Model 500 is a more efficient option when it comes to choosing a pallet wrapping machine since it has an automatic processing. Built with a pallet height detector, this equipment also finishes procedures with its cutter system without the need for an operator to do so. Lastly, it clamps the film prepared for the next operation. The turntable speed may be adjustable as desired. Engineered to raise cost effectivity and productivity in the warehouse.





Features:

- Durable Design
- Display (LCD touch screen)
- Operation Control
- Electric Cabinet
- Inverters
- Rotary Collector
- CE Certification

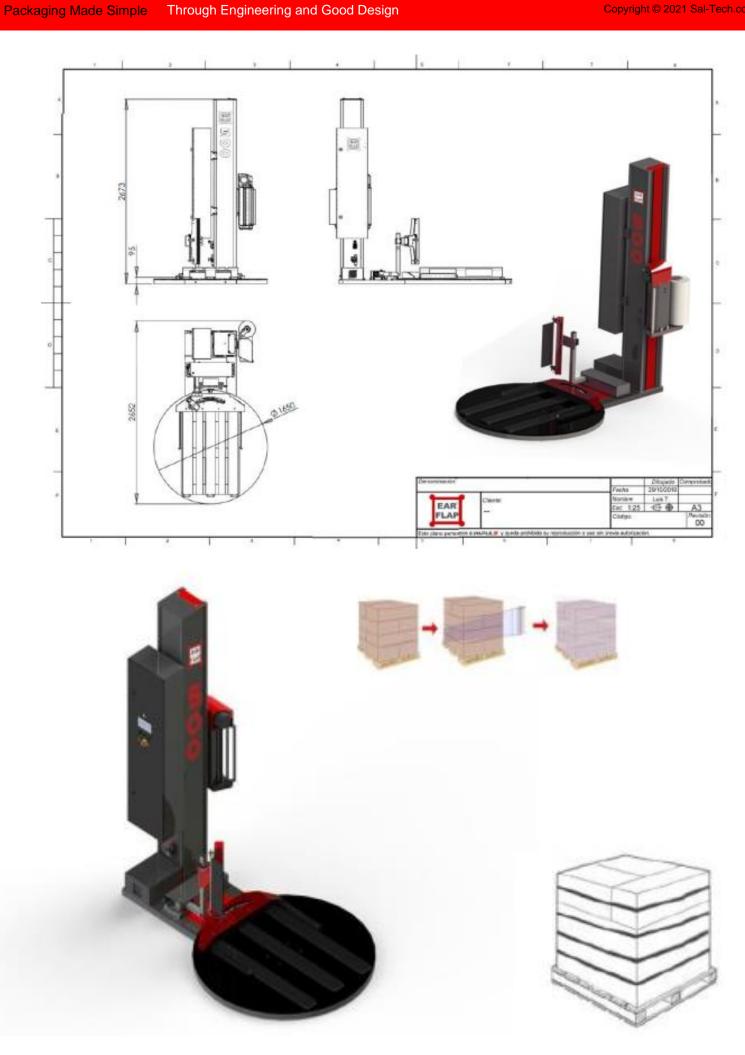
Versions:

- Stainless Steel 430, 304
- Explosion Proof
- Subzero Temperatures

Options:

- Powered top platen
- Powered film pre-stretch
- Height of 2800mm or 3000mm
- Turntable of 2000mm, 2400mm, or 3000mm in core
- Weight of 3000kg
- Top sheet dispenser
- Special working conditions
- Thermo sealing
- Scale with display
- Load detection options
- Direct film brake
- Mechanical film brake

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STEP Model 800 Semi-automatic forklift rotary arm

A semi-automatic pallet wrapping machine that has a rotary arm and manual forklift for mobility.

STEP Model 800 optimizes pallet wrapping processes compared to manual wrapping. It does need an operator to manually cut the film upon end of each cycle and remove the pallet to bring in another pallet. The machine is equipped with a pallet height sensor for detection and speed for film carriage and rotary arm can be adjusted as necessary.

Features:

- 1. Pallet height sensor
- 2. Production (depends on operator and load): up to 20 pallets/hour
- 3. PLC controlled, with display control panel
- 4. Adjustable speed for film carriage and rotary arm
- 5. Pallet height sensor
- 6. Screen selectable Top/Bottom wraps and cycles
- 7. Illuminated cycle START/STOP beacon
- 8. Contact safety system: it stops the wrapping arm in case of contact with an obstacle
- 9. Automatic safety mode to start cycle
- 10. Battery charger: based on the country of destination

Specifications	
Standard Pallet Dimension and Load	1200mm x 1000mm (other dimension on request)
Standard Pallet Height	Up to 1800mm (other heights on request)
Coil (PE Sheet) Width	500mm
Coil (PE Sheet) Thickness	Up to 50my
Battery Capacity	> 160 pallets
Voltage	24V/DC
Item No.	43050800

Accessories

- Direct film brake.
- Mechanical film brake (std.).
- Load detection options: ultrasound.
- Quick-change batteries kit.

Options

- Special heights: 2.800 mm.
- Special turntables: Ø 2.000 mm, Ø 2.400 mm.
- Special weights: 2.000 Kg.









Product Overview:

Packaging Made Simple

STEP Model 900 is a Semi-Automatic Robot Stretch Pallet Wrapping Machine suitable with using PE stretch films. An operator is required for the complete operation of this equipment, yet it keeps wrapping applications optimized with its automatic height detector and rotary arm, in turn lessening the effort of workers in the warehouse when it comes to stretch wrapping of pallets compared to manual procedures.

Description:

This semi-automatic pallet wrapping equipment caters to businesses with basic to heavy duty pallet wrapping requirements using PET and PP film measuring 500mm in film width. Enhancing the packaging processes as it provides efficient and reliable process, also optimizing procedures with its software designed which is user-friendly for maintenance and operations.

Taking you to the next level with its:

- 1. Height Detection Sensor: It automatically senses the pallet height utilizing the film for wrapping
- 2. Modifiable speed of film carriage and rotary arm: Speed is adjustable to desired quickness
- 3. Modifiable Wrap Cycle: Top and Bottom wraps and cycles may be programed and adjusted from the control panel
- 4. Display: Easy to use control panel for maintenance and operation
- 5. With START and STOP beacon
- 6. Security System
- 7. Ignition Key: This ignition key is an anti-theft feature
- 8. Battery: Analog type of battery is installed
- 9. Adjustable tracer wheel
- 10. Battery Saving: It has a Control Battery Life to optimize the battery charging cycle
- 11. Safety System: Halts its operation when there is a blockage



SPECIFICATIONS:	
Speed	Up until 15 pallets per hour
Display Panel	PLC Control
Battery Capacity	More than 300 pallets
Wrapping Direction	Vertical
Pallet Height (Maximum)	2200mm
Film Type	PE
Film Width	500mm
Film Thickness	Up until 50 microns
STEP Item no.	43050900

Options:

- Height of 2800mm
- Mechanical film brake with anti-entanglement (std.)
- Powered pre-stretching with anti-entanglement (200%, 300%, 400%)
- Load detection options: ultrasounds
- Fast battery replacement kit
- Cycle start options: remote control

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STEP Model TRM 500L

Automatic Pallet stretch Wrapper for inline applications

Item no.: 43050501

Go Automatic with the STEP TRM500L model. Designed for various business pallet wrapping requirements.

Features:

- 1. Variable Speed: 25 pallets per hour
- 2. PLC Touchscreen Control Panel Installed
- 3. Automatic Height Detector
- 4. Automatic Film Cutter
- 5. 300% Pre-Stretched Motor
- 6. 10 Wrapping Programs
- 7. Carriage Drive, ½" Chain
- 8. Turntable Drive, 5/8" Chain
- 9. Pneumatic Clamp, Film Holder
- 10. Soft Start Turn

Options

- 1. Electromagnetic Brake
- 2. Stainless Steel
- 3. Explosion Proof
- 4. Cold Temperatures



SPECIFICATIONS:		
Speed	Max 25 pallets per hour	
Turntable	Yes	
Display	PLC Control Touch Screen	
Wrapping Programs	10 Programs	
Power	2KW	
Air Pressure	6 bar	
Pallet Features		
Wrapping Process	Vertical	
Height	Maximum of 2400mm	
Pallet Dimension	1200mm x 1100mm	
Weight	Maximum of 1200kg	
Coil Features		
Туре	PE Sheet	
Width	500mm	
Thickness	Maximum of 50 Microns	
STEP Item no.	43050501	

Automatic turntable stretch wrappers: automatic wrapping system based on turntable that rotates concentrically with the pallet. This model does not require the presence of operators at the end of cycle due to cutting system 3ALL. In this stretch wrapper the load input, positioning and output is automatic, with the necessary connections with conveyors and other machines of the system.

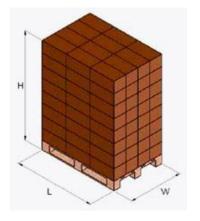
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Technical features

- Production (according to load): up to 25 pallets/hour.
- Turntable with soft start, indexed stop and variable speed.
- Pneumatic clamp to hold film before the wrapping cycle.
- · Automatic film cutting arm.
- Powered film carriage.
- Electromagnetic brake (option).
- Pre-stretch motor 300%.
- Load height detection by photocell.
- · Controlled by PLC.
- LCD control touch screen.
- 10 different wrapping programs.
- 5/8" chain for turntable drive.
- ½" chain for carriage drive.
- Electric power: based on the country of destination.
- Installed power: 2 Kw.
- Air pressure: 6 bar.

Standard pallet features (others on demand)

- Type of wrapping: Vertical.
- Maximum height: Up to 2.400 mm (consult about other heights).
- Maximum dimensions pallet and load: 1.200 x 1.100 mm (consult about other dimensions).
- Maximum weight: 1.200 Kg.



Coil specifications

- PE sheet.
- Width: 500mm.
- Thickness: Up to 50 microns.

Versions

- Stainless steel 304, 430.
- Explosion proof.
- Subzero temperatures.





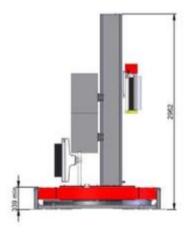
Accessories

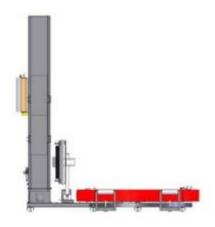
- Top sheet dispenser TDM1800.
- 2. Powered top platen.

Packaging Made Simple

- 3. Hot sealing.
- 4. Electromagnetic brake.
- 5. Powered "M" pre-stretch (std.).
- 6. Flat platform (std.).
- Motorized rollers conveyor. 7.
- Motorized chain conveyor.



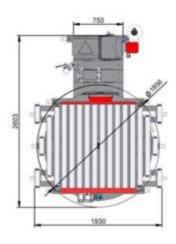


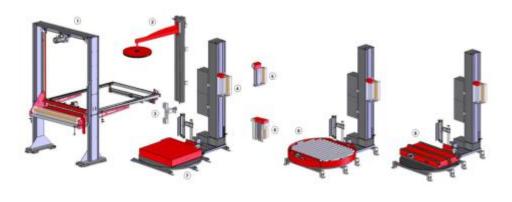


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Series and optional equipment

- TDM 1800 top sheet dispenser Powered top platen
- 3. Heat sealing
- Electromagnetic film brake (standard)
- S powered prestretch
- M powered prestretch
- Flat turntable (standard)
- Roller conveyor
- Chain conveyor





STEP Model TRM1500

A versatile Fully Automatic Turntable Wrapper has a Base with Turntable powered by a Roller Conveyor and a Mast where the Film Carriage Set and Electrical Cabinet is located. Equipped with in and out signals for connection to a chain or roller

conveyor, can wrap any type of load regardless of its characteristics.

Features:

- **Durable Design**
- "M" Film Pre-Stretch
- 3 All System
- **Belt Drives**
- Gear Ring
- **Touch Screen**
- **Electronic Control**
- **Electric Cabinet**
- Frequency Inverters
- Slip Ring
- **CE Norms Compliant**

Options:

- Turntable with 3 5 Power Chains
- Specials Heights 2800mm 3000mm
- Special Weights 3000 Kg



Specifications		
Wrapping Type	Vertical	
Max. Wrapping Height	Up to 2400mm	
Pallet and Load Dimensions	1200 X 1000mm	
Max. Weight	1500 Kg	
Stretch Film outer diameter	240 ± 250mm	
Stretch Film inner diameter	76mm	
Reel Height	500mm	
Film Thickness	17 – 50 μ	
Max. Weight of Film	20 Kg	
Wrapping Programs	Single Cycle, Cross Cycle, Rain-Proof Cycle and 10 other Storable Program	
Variable Output	Up to 35 Pallets/Hr	
Electric Requirements	400V / 3 Phase / 50Hz / Can also be based depending on the country of destination	
Installed Power	4 Kw	
Electrical Protection	IP 54	
Compressed Air Infeed	6 bar	
Compressed Air Consumption	350 liter/Cycle	
Noise Level	< 70 dB (A)	
STEP Item no.	43051500	

Accessories:

- Top Sheet Dispenser TDM1800
- Powered Top Platen
- Powered "M" Pre-Stretch
- Powered Rollers Conveyors
- Powered Chains Conveyor

Versions:

- Stainless Steel 430, 304
- Explosion Proof ATEX
- Subzero Temperature

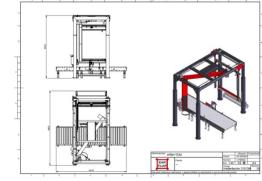
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STEP Model ARM3500

An Automatic Rotary Arm Wrapper, equipped with a Fastening System, a Toothed Crown that enables the machine to Rotate at a higher speed reinforced by Pillars and a 3rd Larger that stabilizes and supports the upper structure. Rotating Arm turns around the unstable load, heavy & high output demands, ensures stability and efficiency.



- Durable Design for its flexibility, durability and efficiency
- "M" Film Pre-Stretch of the Wrapping inside the Film Carriage increases its wrapping strength therefore securing the product even more.
- 3 All System has integrated 3 external mechanical devices into 1 single unit. From Clamping, cutting and dolly heat sealing, no Minimum wrapping Height
- Powered film reel holder
- Rotary arm transmission, sprocket.
- Motorized Film Carriage
- Turning Arm with Soft Start/Stop and Variable Speed
- Acoustic & Luminous Warning System during operation and anomalies
- Control Panel is PLC and LCD Touch Screen for Control Panel
- Central Motorized Conveyor included
- Load and Height detection by Photocell
- 10 Storable Programs for wrapping speed and no. of wraps
- Compliance to CE Regulations



Specifications:	
Wrapping Type	Vertical
Max. Wrapping Height	Up to 2,400mm (including conveyor & pallet)
Pallet and Load Dimensions	1,200mm X 1,000mm (direction of feed 1,200mm)
Max. Weight	As required
Stretch Film outer diameter	240 ±250mm
Stretch Film inner diameter	76mm
Coil Height	500mm
Film Thickness	17-50µ
Max. Weight of Film	20 Kg
Wrapping Programs	Single, Double or Complete Cycle plus 10 Storable Programs
Variable Output	±50 pallets/hr
Electric Requirements	400V 3Ph 50Hz or Based on the Country of Destination
Installed Power	4.5 Kw
Degree of Isolation	IP 54
Compressed Air Infeed	6 bar
Compressed Air Comsumption	350 l/cycle
Noise Level	70 dB (A)
STEP Item no.	43053500

Options:

- Special heights: 2.800mm, 3.000mm.
- Special turntables: Ø2.400mm, Ø3.000mm.

Versions:

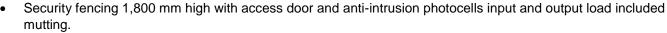
- Stainless steel 430, 304.
- Explosion proof, ATEX approval
- Subzero temperatures.



Shown with Top film dispenser

Accessories:

- Top sheet dispenser STEP TDM3500.
- Powered top platen.
- Powered "M" pre-stretch.
- Powered rollers conveyor.
- Powered chains conveyor.
- Pallets lift table.



Request the full 10 page STEP EAR-flap product description on demand. STEP JC 70936



M-Stretch

STEP Model RRM4500 & STEP Model RRM6500

This Automatic Rotating Ring Pallet Wrappers wrap via a Rotating Ring that moves up and down, with 4 columns providing as support for the whole structure, Electric collector is used for the rotation system which powers the film Carriage and prestretch system that makes the Up and Down Motion possible. Speed of Wrapping is varied using the Digital Inverter.



- Turning ring with soft start, indexed stop and variable speed.
- 3ALL set system
- Powered film reel holder carriage
- Powered film pre-stretching 300%
- Load height detection by photocell
- Optical panel with LCD touch screen displaying user friendly graphics for operator
- Control System by PLC
- 10 Storable Programs (for Wrapping Cycle)

Options:

Special heights: 2.800 mm, 3.000 mm.

Versions:

- Stainless steel 430, 304.
- Explosion proof.
- Subzero temperatures.

Accessories:

- Top sheet dispenser TDM4500/6500
- Powered top platen.
- Pallets lift table.
- Security fencing 1,800 mm high with access door and anti-intrusion photocells input and output load included mutting.

Specifications		
Model	STEP Model RRM4500	STEP Model RRM6500
Type of Wrapping	Vertical	Vertical
Wrapping Speed	Up to 90 Pallets/hour	Up to 120 Pallets/hour
Max. Height	Up to 2200mm (includes conveyor	Up to 2200mm (includes
	& pallet)	conveyor & pallet)
Max. Dimensions of Pallet &	1200 x 1000 (direction of feed	1200 x 1000 (direction of
Load	1200mm)	feed 1200mm)
Exterior Film Wrap Diameter	240 ±250mm	240 ±250mm
Interior Film Wrap Diameter	76mm	76mm
Coil Height	500mm	500mm
Film Thickness	17-35 microns	17-35 microns
Max. Weight	20 Kg	20 Kg
Electrical Power	400V 3Ph 50Hz	400V 3Ph 50Hz
	Based Upon Country of	Based Upon Country of
	Destination	Destination
Installed Power	12Kw	12Kw
Pneumatic Installation	6 Bar	6 Bar
Air Consumption	70N/min.	70N/min.
Noise Level	70 dB (A)	70 dB (A)
STEP Item No. (Std. ver.)	43054500	43056500
Description of Option	Item no. option	Item no. option
Special heights: 2.800 mm	43054500-100	43056500-100
Special heights: 3.000 mm.	43054500-110	43056500-110
Stainless steel 304	43054500-120	43056500-120
Explosion proof	43054500-130	43056500-130
Subzero temperatures	43054500-140	43056500-140
Top sheet dispenser TDM4500	43054500-150	43056500-150
Powered top platen	43054500-160	43056500-160
Pallets lift table	43054500-170	43056500-170
Security fencing 1,800 mm high plus other features	43054500-180	43056500-180



STEP ONE Pallet Wrapper Semi Auto.

State-of-the-art semiautomatic wrapping machine for wrapping palletized loads, equipped with motorized pre-stretch to guarantee the minimum film consumption. The only manual steps are the cutting of the film and its attachment to the pallet; the rest of operations are completely automatic and easily programmable through the touchscreen with a graphic and intuitive menu.



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STEP Semi-Automatic Wrappers- Wrap Series STEP Easy Wrap 2000A

Spring Break Stretch Wrapping Machine

Features

- Adjustable Spring Break
- Turntable Home Position Fix stop
- Soft Start and Stop
- One Touch Automatic Program
- Safety Switch to prevent from foot pitch
- Height Detection by Photo Sensor
- Top and Bottom Wraps Selector
 - ~2 Bottom Wraps and 1 Top Wrap
 - ~3 Bottom Wraps and 2 Top Wraps

Options:

- Pit Frame, level with floor
- Horse Shoe Style Turntable
- Project Machines, your request Mechanical/Electrical
- Data Capture functions and STEP Software
 - o Pallet: Height, Video, Image, Scanning, Weight, Communication
- Ramp







Specifications				
Maximum Wrapping Height	2400 mm	2700 mm	2400 mm	2700 mm
Maximum Turntable Speed	10 RPM			
Maximum Loading Weight	1500 kg			
Turntable Diameter	1500 mm 1650mm			0mm
Power Supply	Single Phase According to Local Standard			
Turntable Motor Carriage Motor	220V AC, 3 Phase Variable using VLC			
Item Number	43461010	43461011	43461020	43461021



STEP Easy Wrap 2000B Pallet Stretch Wrapper that almost has it all!

Features

- 250% Power Pre-Stretch Interchangable for 150%, 200% or 300%.
- Turntable Home Position Fix stop
- Soft Start and Stop
- Choices of Automatic and Manual Modes.
- Adjustable top and bottom wrap counts
- Adjustable Wrapping Tension, Turntable Speed and Carriage Speed
- Manual Reinforcing Wrapping
- Safety Switch to prevent from foot pitch
- Height Detection by Photo Sensor
- Advanced Soft Wrapping
- One-Way Idle Roller

Options:

- Top Pressure Plate Driven by Motor
- Pit Frame, level with floor
- Project Machines, your request Mechanical/Electrical
- Data Capture functions and STEP Software
 - Pallet: Height, Video, Image, Scanning, Weight, Communication
- Ramp



Specifications				
Maximum Wrapping Height	2400 mm	2800mm	2400mm	2800mm
Maximum Turntable Speed		12 F	RPM	
Maximum Loading Weight		200	0 kg	
Turntable Diameter	1500 mm 1650mm		Omm	
Film Roll Width	500 mm (20")			
Film Roll Outer Diameter		280 m	m (10")	
Film Roll Inner Diameter	76 mm (3")			
Power Supply	Single Phase According to Local Standard			
Turntable Motor Carriage Motor	220V AC, 3 Phase Variable using VLC			
Item Number	43461060	+ option	43461070	+ Option

Optional 3000 mm for Maximum Wrapping Height also available Optional Ø1800/Ø2000/Ø2200/Ø2600mm Turntable Diameter also available

Data Capture (Weight)

Optional add-on to your Pallet Wrapper of choice for easier weighing of your palletized goods.

Contact us for more Information

The STEP Easy Wrap 2000B features an **Open Type Film Carriage** for easier film loading and replacement.



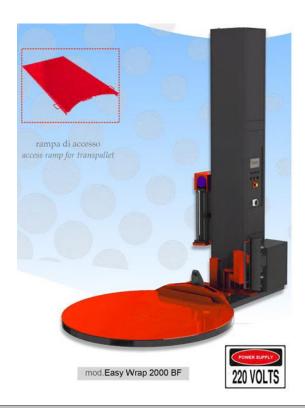
STEP Easy Wrap 501

Packaging Made Simple

Power Pre-Stretch Wrapping Machine

Features

- 250% Power Pre-Stretch Interchangable for 150%, 200% or 300%.
- Turntable Home Position
- Soft Start and Stop
- Choices of Automatic and Manual Modes
- Adjustable top and bottom wrap counts
- Adjustable Wrapping Tension, Turntable Speed and Carriage Speed
- Troubleshooting Shown on Screen
- Manual Reinforcing Wrapping
- Safety Switch to prevent from foot pitch
- Height Detection by Photo Sensor
- Advanced Soft Wrapping
- One-Way Idle Roller
- Touch Screen PLC Control



Options

- Top Pressure Plate Driven by Motor
- Pit Frame, level with floor
- Project Machines, your request Mechanical/Electrical
- Fully Automatic Top Film Dispenser STEP TFD-800
- Data Capture functions and STEP Software
 - Pallet: Height, Video, Image, Scanning, Weight, Communication
- Ramp (Item Number 43391800 Ramp Ø1800)

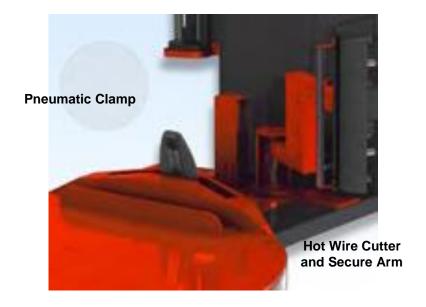
Specifications	
Maximum Wrapping Height	2400 mm (Optional 2700 mm and 3000 mm)
Maximum Turntable Speed	12 RPM
Maximum Loading Weight	2000 kg
Film Roll Width	500 mm (20")
Film Roll Outer Diameter	250 mm (10")
Film Roll Inner Diameter	76 mm (3")
Turntable Diameter	1800 mm (Optional 1650mm)
Power Supply	Single Phase According to Local Standard
Turntable Motor	2/3 HP, 220V AC, 3 Phase Variable using VLC
Carriage Motor Power Pre-Stretch Motor	1/2 HP, 220V AC, 3 Phase Variable using VLC
Item Number	43461160

Main Features

Touch Screen Control Panel

Very easy to use control panel and is safely located at the side of the machine.





STEP Machine Stretch Film - 5 main types

Width 500mm or Ø76 core - Covers most application demands

STEP SOFT

STEP Soft Film is designed for Gently Secures soft and light loads.

Features:

- Perfect for high pre-stretch applications
- Controlled tension in soft and light loads
- Excellent sealing properties at end process
- Good stability for high pre-stretch

- 500mm
- 12my to 35my
- Natural and colours
- Automatic, semi-jumbo and jumbo rolls



Technical Details							
Item No.	54015012	54015015	54015017	54015020	54015023	54015030	54015035
Thickness (μ)	12	15	17	20	23	30	35
Length Machine Roll (mtr)	2850	2281	2013	1711	1488	1141	978
Pre-stretch (% Min)	240	255	265	290	320	335	355
Tear Resist MD/TD ASTM- D1922(gr)	189/446	225/496	253/526	286/589	320/643	486/837	546/877
Puncture Resistance ASTM- D5748 (gr*cm/µ)	597	580	563	523	497	354	312
Tensile Strength MD/TD ASTM-D882 (N/mm2)	62/48	59/45	55/41	51/38	47/35	34/27	31/25
Elongation at Break MT/TD ASTM- D882(%)	430/876	520/910	565/950	610/959	683/964	750/999	785/1010



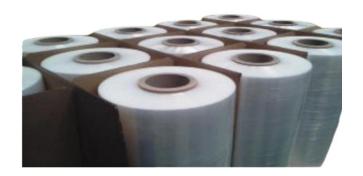


STEP Easy Film is designed to Perfectly holds for heavy loads.

Features:

- Perfect for heavy loads
- Secure wrapping process
- Fits in all kind of equipment

- 500mm
- 12my to 35my
- Natural and colours
- Automatic, semi-jumbo and jumbo rolls



	Technical Details							
Item No.	54025012	54025015	54025017	54025020	54025023	54025030	54025035	
Thickness (μ)	12	15	17	20	23	30	35	
Length Machine Roll (mtr)	2850	2281	2013	1711	1488	1141	978	
Pre-stretch (% Min)	160	200	240	265	280	290	305	
Tear Resist MD/TD ASTM- D1922(gr)	155/432	213/496	235/515	290/546	309/605	437/744	480/820	
Puncture Resistance ASTM- D5748 (gr*cm/µ)	585	570	556	523	486	389	346	
Tensile Strength MD/TD ASTM-D882 (N/mm2)	66/47	64/45	59/42	53/38	48/35	39/30	35/27	
Elongation at Break MT/TD ASTM- D882(%)	410/794	460/875	510/890	580/903	624/912	645/915	673/924	





STEP MATRIX

STEP Matrix Film is designed for Extreme resistance to tear and functions.

Features:

- Film for extreme pre-stretch conditions
- Special formulation for:
 - Higher puncture resistance
 - Extreme tear resistance
 - Superior tensile strength at break
- BEst ratio cost per pallet
- Less film consumption- Ecofriendly

- 500mm
- 12, 14, 17 and 20my
- Natural film
- Automatic and Jumbo rolls



Technical Details						
Item No.	54035012	54035014	54035017	54035020		
Thickness (µ)	12	14	17	20		
Length Machine Roll (mtr)	2850	2281	2013	1711		
Pre-stretch (% Min)	275	315	335	350		
Tear Resist MD/TD ASTM- D1922(gr)	192/338	214/354	217/454	341/485		
Puncture Resistance ASTM-D5748 (gr*cm/µ)	1590	1325	1104	933		
Tensile Strength MD/TD ASTM-D882 (N/mm2)	23/20	22/19	21/18	23/23		
Elongation at Break MT/TD ASTM- D882(%)	381/469	399/498	443/567	444/568		



STEP GRIB

STEP Grib Film is designed for Strongest grip around your load.

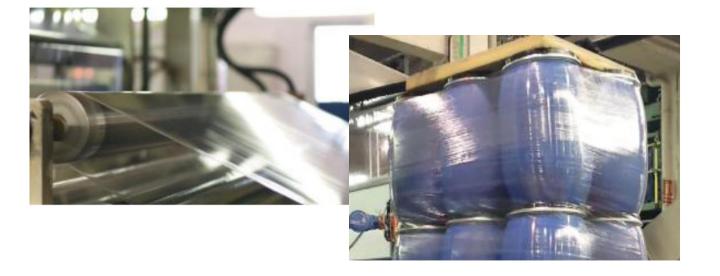
Features:

- Film for low or non-pre-stretched application
- Special development with:
 - Higher puncture resistance
 - Extraordinary holding force
- Enhanced ratio cost per pallet
- Less film consumption- Ecofriendly

- 500mm
- 6, 8, 10 and 12my
- Natural film
- Automatic and jumbo rolls



Technical Details						
Item No.	54045006	54045008	54045010	54045012		
Thickness (µ)	6	8	10	12		
Length Machine Roll (mtr)	5.750	4.300	3.450	2.850		
Pre-stretch (% Min)	30	50	70	100		
Tear Resist MD/TD ASTM- D1922(gr)	15/>2500	20/>2500	25/>2500	30/>2500		
Puncture Resistance ASTM-D5748 (gr*cm/μ)	1.965	1.722	1.333	952		
Tensile Strength MD/TD ASTM-D882 (N/mm2)	103/33	88/37	73/41	58/45		
Elongation at Break MT/TD ASTM- D882(%)	176/823	218/837	258/850	299/864		



STEP ICE

STEP Ice Film is designed for Excellent holding force below zero.

Features:

- Stretch film performed for frozen conditions (-25°C - 0°C)
- Reinforced taking level
- No tails
- High efficiency

- 500mm
- 12my to 35my
- Natural film
- Automatic, semi-jumbo and jumbo rolls



	Technical Details							
Item No.	54055012	54055015	54055017	54055020	54055023	54055030	54055035	
Thickness (µ)	12	15	17	20	23	30	35	
Length Machine Roll (mtr)	2850	2281	2013	1711	1488	1141	978	
Pre-stretch (% Min)	240	255	265	290	320	335	355	
Tear Resist MD/TD ASTM- D1922(gr)	189/446	225/496	253/526	286/589	320/643	486/837	546/877	
Puncture Resistance ASTM- D5748 (gr*cm/μ)	597	580	563	523	497	354	312	
Tensile Strength MD/TD ASTM-D882 (N/mm2)	62/48	59/45	55/41	51/38	47/35	34/27	31/25	
Elongation at Break MT/TD ASTM- D882(%)	430/876	520/910	565/950	610/959	683/964	750/999	785/1010	



STRETCH FILM FOR WRAPPERS - MACHINE FILM

Old item number series.



Thickness	Description	ITEM NO.			
Basic - I	Basic - Pre - stretch degree up to 150 %				
12 MY		54115012			
15 MY	LLPDE stretch film in machine rolls.	54115015			
17 MY	Inside core diameter ø76mm Roll weight including core 16-17,5kg.	54115017			
20 MY	30 or 45 rolls per pallet – ASK. Pre - stretch degree up to 150 %	54115020			
23 MY	Film width 500mm	54115023			
30 MY		54115030			
35 MY		54155035			

Advan	Advance – Pre – stretch degree up to 250 %		
12 MY	LLPDE stretch film in machine rolls.	54125012	
15 MY	Inside core diameter ø76mm Roll weight including core 16-17,5kg.	54125015	
17 MY	30 or 45 rolls per pallet – ASK.	54125017	
20 MY	Pre – stretch degree up to 280 % Film width 500mm	54125020	
23 MY	Price always based on daily update.	54125023	

Advan	Advance Plus – Pre – stretch degree up to 280 %		
12 MY		54135012	
15 MY	LLPDE stretch film in machine rolls. Inside core diameter ø76mm	54135015	
17 MY	Roll weight including core 16-17,5kg. 30 or 45 rolls per pallet – ASK.	54135017	
20 MY	Pre – stretch degree up to 280 %Film width 500mm Price always based on daily update.	54135020	
23 MY	The analysis and a same appeared	54135023	

Extren	Extreme – Pre – stretch degree up to 300 % Cast film				
12 MY		54145012			
15 MY	LLPDE stretch film in machine rolls. Inside core diameter ø76mm	54145015			
17 MY	Roll weight including core 16-17,5kg. 30 or 45 rolls per pallet – ASK.	54145017			
20 MY	Pre - stretch degree up to 300 % Film width 500mm	54145020			
23 MY	Price always based on daily update.	54145023			

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HAND ROLLS Ø50 core x 300meter Transparent & Black

		o doro x dodinato	· ········	paront	G Diagr
Thickness		Description		Stock	Item no.
Width	450mm x Ø	50 core x 300meter			
12 MY	II DPF stretch	film in hand rolls transparent or	000		54164512
15 MY	black if stated.	min in hand tons transparent of			54164515
17 MY	Inside core diar	neter ø 50 mm		On Stock	54164517
20 MY	6 rolls er box		12311	On Stock	54164520
23 MY	- Crond or box		4473		54164523
30 MY					54164530
35 MY			1 -		54164535
20 MY Black					54164620
23 MY Black					54164623
	500mm x Ø	50 core x 300meter			
12 MY	I I DPF stretch t	film in hand rolls transparent or	000		54165012
15 MY	black if stated.	min in nana rons transparent of	1111		54165015
17 MY	Inside core diar	neter ø 50 mm			54165017
20 MY	6 rolls er box		12311	On Stock	54165020
23 MY	0 10113 C1 DOX		44.7		54165023
30 MY			1		54165030
35 MY			1 / 2		54165035
20 MY Black					54165120
23 MY Black					54165123
Width 500	mm x Ø50 c	core x 500meter			
9my	LLDPE stretch film in hand rolls transparent Inside core diameter ø 50 mm 6 rolls er box On Stock				54165009
TOPFILM					
Tickness x Widt	h x Meter	Description		Item no.	
50my x 1500mm x 500m		LDPE top film in rolls for machine use 500 m/roll.		54701500	
Ot	ther width of	film on request: 1200, 18	00, 2000m	ım, Just A	SK!
TOP shee	ts– Preforn	ned sheets on rolls			
Tickness x Widt	h x Meter	Description			Item no.
35my x 1300 x 1700mm Clear		LDPE top film in rolls, tear lines for sheets 200 sheets/roll		54713173	
50my x 1400 x 1	700mm Black	LDPE top film in rolls, tear lines for sheets 130 sheets/roll			54713175
HAND Ro	lls width 10	00 MM For hand wrapp	oing		
17 my x 100 mm		LLDPE stretch film in MINI hand rolls – 24 roll			54808017

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With adjustable brake.

HAND DISPENSER W 600

Continued from page 3

Applicable equipment in relation to different processes:

Manual:

General: The physical dimension such as height and weight, the handling limitations of manual hand wrapping.

- Hand Films dispenser for hand film 450 or 500mm width.
- o Hand Films handles for mini rollers 100 to 125mm width.
- Hand preferred films for direct winding without secondary tool.

Semi-Automatic:

<u>General:</u> The physical dimension such. height, diameter and weight puts restrictions on what the machines can perform. Each machine series will typically have a number of options that enable greater dimension, weight and diameter, this applies to all machines semi-automatic, automatic and fully automatic.

Basic Machine Concepts:

- Tower type with the turntable, the pallet is rotating while being wrapped.
- Satellite type of unit where the film is wrapped around the stationary pallet.
- Tower type turntable with horizontal rolls where product is rolled and rotated.
- Combining turntable, satellite aggregates leads to extreme process speeds.
- Semi Automatic Pallet Wrapping E3 Wrap 4000, where you manually attach the film to the pallet before the process starts and automatically cuts the film when the process is completed. Basic Solution.
- Semi Automatic Pallet Wrapping E3 Wrap 6000, where you manually attach the film to the pallet before the process started, but the machine itself, cut the film when the process is completed. Advanced Solution.
- Best film with manual process where the wrapper has pause function.

Automatic:

- Automatic Pallet Wrapper E3 Wrap 7000 which can start the process automatically and holds the film after cutting, ready for the next pallet to wrap. The only manual work is loading/unloading of the pallet which in turn is handled manually by truck or pallet truck.
- The Best film with manual process or automated integrated solution is the STEP HB 800.

Fully Automatic:

- Fully Automatic Pallet Wrapping E3 Wrap 8000 is a process where the machines develops and manage the
 pallet without human intervention. The pallet is transported onto the taxiways, wrapped and carried out
 subsequently. It is important that the pallet has the necessary stability for the internal transport.
- Top films such as Fully Automatic Integrated Solution.

Other equipment which may advantageously be integrated around the wrapping process:

- Weighing of the pallet with integrated weight system.
- Data collection around the packed pallet. The data are collected and stored up against the ERP system using the STEP Data Exchange System.
 - Scanning the pallet registration number.
 - Weighing Function.
 - Pallet dimension measurements.
 - Image capture of the pallet
 - 360 degree video capture of the pallet
- o Top film dispenser.
- o Top plate for stabilization of the pallet during wrapping.
- o Taxiways on the turntable and / outlets for manual or automatic pallet change.
- Label marking of the pallet.

Typical process rates in the choice of machine type / process, depending on the sum function, pallet dimensions, product, movie selection, etc.

Fully Automatic Pallet Wrapping, projected full-optimal solutions, up to 70-100 pallets per hour.

Advanced wrapping and packaging lines with the incorporation of many types of processes in the project specified solution concepts and lines. In many cases, several technologies are implemented to ensure optimal use of each element, whereby

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material and energy consumption is minimized. Data are collected and processed to ensure the right quality and information.

Manual	5-10 pallets day. A person will presumably be able to wrap more pallets per day but it is definitely not recommended as a permanent solution for regular pallet wrapping due to the negative impact working environment-wise.
Semi-Automatic	5-100 pallets a day
Automatic	5-30 Pallets per hour
Fully Automatic	5-120 Pallets per hour

Other types of machines and equipment for Wrapping:







Roll wrapping



Data capture pakke STEP Data Exchange System



Top films Dispenser STEP TF 1500

Film Types:

General consideration and reality: It is expensive to use an inexpensive film

It is extremely important that the correct film used for the right purpose, so make sure you get a price optimal development of its product. This choice, start by selecting the machine, aggregate type, process point in relation to your production flow, material selection and secondary processes that affect the entire packaging process, mixed stability by moving internally from the process point to the moth.

Hand Film:

- LDPE cast or blown, clear, white, black, other colors Additional Features: UV, rust protection
- o Thickness: 9 to 35my
- o Width: 450-500mm for hand film on core ø50 ø76 and core movable type. Hand Scrolls 75 to 150mm on core ø76.
- Pre stretch: regular, Pre stretched.

Machine Film:

- LDPE cast or blown, clear, white, black, other colors Additional Features: UV resistant, UV, rust protection, perforated holes, added glue, etc.
 - Butene / Hektene types of short chains. LDPE Low Density with limited characteristics about the strength and elongation. STEP Basic Stretch
 - Oktene types of long and branched chains. Octene LLDPE Linear Low Density with good general properties such as strength and elongation. STEP Advanced Stretch
 - Metallocene types with numerous and widely branched Chain Metallocene catalyst is not a monomer such as ethylene, but the film producer of the donor represent. Especially good strength, tear and elongation properties. STEP ultimate stretch.
- o Thickness: 9my to 35my
- Width: 500mm ø76mm on the core and the outer diameter up to 250mm, common European hemming. Jumbo rolls of width 750mm with outer diameter up to ø450mm.
- Pre stretch degree: 100% to 400%, Pre stretched. The typical commercial products are 150%, 280% and 300% Pre stretch degree.
- o Interior or exterior glue.
- Invoicing of film gross to net DKK / kg or gross to net DKK / roll with a number of meters in thickness given

 Hemming: Machine Film wrap on pallets typically 2 or 3 layer upright. Film Rolls should not lie down for the sake of balance, excitation and crib conditions during storage. Each layer is typically packed with either 15 (within a EURO pallet without an overhang) or 22 in which the film roll is packaged with an overhang on the pallet. Other variants exist.

Environmental Conditions:

PE material composition is of particular interest as this is often hot welded:

Polyethylene ca. 98 % Color pigments are not toxicca. 1-2 %

Toxic and Reaction Properties: Polyethylene is chemically and biologically inert. Polyethylene can be used directly for food.

Physical Contact:

There is no risk, beyond the mechanical. Welding, Gluing and Printing of PE Materials:

It is recommended to have the workplace have an outside ventilation to avoid exposure to welding fumes from plastic welding. If welding at a room temperature below 150 degrees, smoke and steam generation is considered to be insignificant. It is recommended that you always provide adequate ventilation for the sake of the general welfare of the workers.

PE can be used in friction welding and ultrasonic welding without the need of suction, as all welding fumes goes into cables in the weld zone.

PE has a low surface tension and therefore can only be glued and applied to the text for the treatment of the surface.

Flammability:

When the polyethylene is heated, the material will melt at approx. 109-125 degrees.

Burning:

Controlled burning is recommended. When ignited, the material will continue to burn, even after the ignition source is removed. The decomposition produces H20, and CO2. If burned with a low presence of oxygen, the combustion will also produce mono oxide, which is toxic.

Recycling:

PE materials are suitable for recycling.

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Horizontal Wrapping

Key Benefits

- · Positive heat seal eliminates loose tails and bundle failure
- Heavy duty construction designed for industrial applications
- · Low Maintenance hardlube coated wear parts for years of reliable service
- Economical uses low cost stretch film
- Product Friendly allows tight banding without product damage





While the force to load adjustable film tensioning feature allows you to control your wrapping tension, the inherent properties of stretch film will never damage your product.

Flow through design makes the Flex Strap stretch film banding machines the ideal solution for bundling long length products, such as, millwork & extrusions. The Flex Strap's unique *heat seal* assures bundles stay bundled by preventing the film from unravelling.



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Horizontal Wrapping Machines





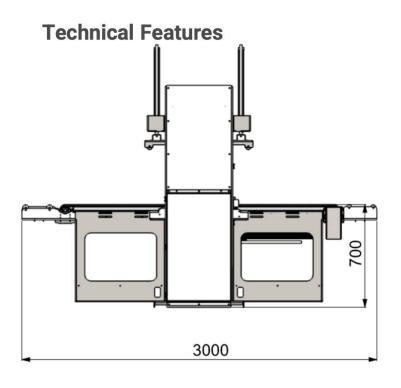
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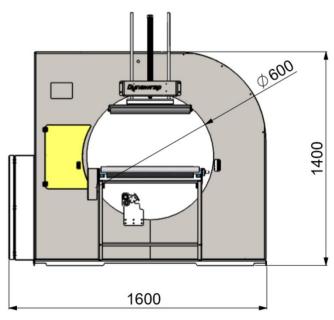
STEP DW PRO 600

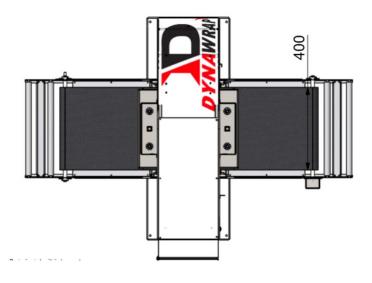
STEP Dynawrap Pro Series 600 Orbital Wrapping Machine is a fully automatic machine comes with a 7 inches smart touch panel.

Small in size. Big on Capability. Dyna wrap Pro 600. It is the perfect choice for to wrap moldings, profiles, blinds, shelves and kit furniture. The net inlet diameter is 600mm. Schneider Electronics control system, mega dyne quality belts.









Automatic horizontal stretch film wrapping machine to obtain a maximum protection of the product with the minimum energy and material cost.

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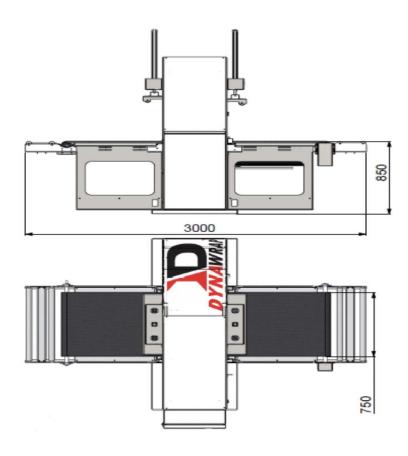
STEP DW PRO 1000

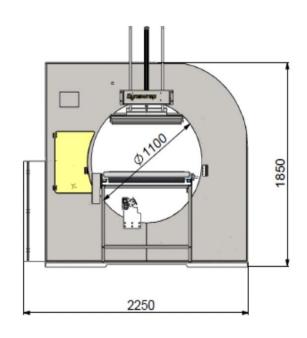
STEP Dynawrap Pro 1000 Orbital Wrapping Machine brings more of our most powerful technologies more than ever.

Robust chassis, smart touch panel, fully automatic control system brings the best performance for your needs. Pro 1000 is perfect for wrapping furniture, doors, wood panels, cabinets, wooden boards and windows.



Technical features:





STEP Dynawrap Pro 1400 is Heavy on Features Affordable on Price. For high-volume operations, the Perfect Pro Series Fully automated orbital wrapping system delivers the perfect combination of high speed, through put and efficiency.





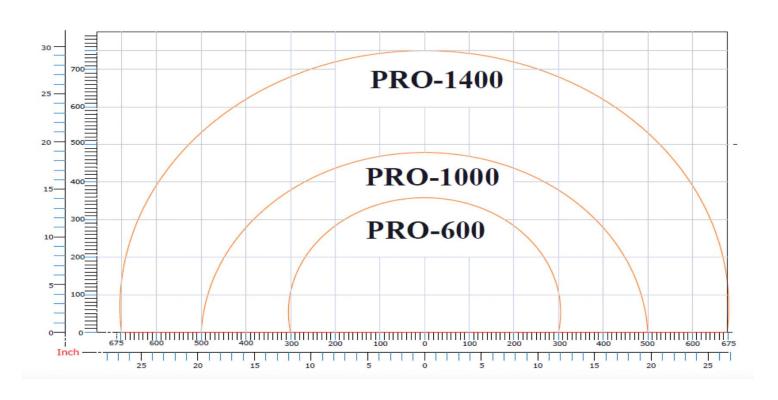






Standard Package INCLUDES

- Top Presses
- Cutting and Clamping Unit
- Motorized Infeed and Outfeed Conveyors
- Smart Touch Panel
- PLC Control Automation
- Short Part Bridge



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STEP DW PRO 1700

STEP Dynawrap Pro 1700W is an Horizontal Wrapping Machine with a Crown Diameter of 1780 mm. The inner net passing diameter is 1700mm. Considering the wide diameter it will wrap any kind of Sofa Perfectly.

Dynawrap Pro Series 1700 has an additional welding unit where you can use foam, shrink bag or air bubble as needed. The welding unit cuts and seals the package and makes a bag. After that the wrapping unit straps the stretch film on the sofa and unifies the air bubble and sofa.

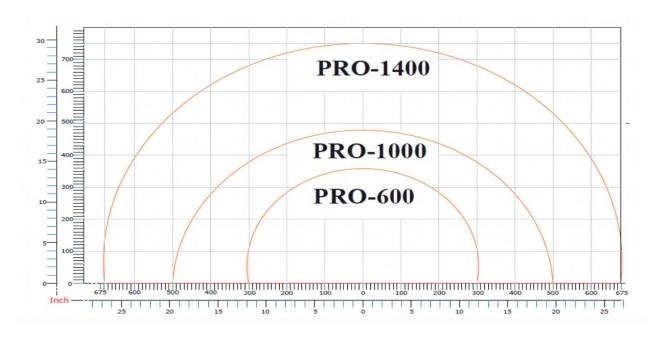


For those who think BIG



This creates a significant protection. All the process lasts 45 seconds for a 2.5 meter length sofa.

SPECIFICATIONS								
Model	STEP DW PRO 600	STEP DW PRO 1100	STEP DW PRO 1400	STEP DW PRO 1700				
Ring Diameter	600	1100	1360	1700				
Max Width (mm)	1600	2250	2600	2600				
Max Height (mm)	1400-1680	1850-2250	2200-2650	2300				
Conveyor Height (mm)	700	870-900	870-900	870-900				
Conveyor Width (mm)	400	750	900	1000				
Infeed Conveyor Length (mm)	1300	1300	1300	1800				
Welding Unit Conveyor	1200	1800	1800	1800				
Outfeed Conveyor	1300	1300	1300	1800				
Conveyor Load Capacity (kg/m)	100	120	120	140				
Max. Crown Velocity (rpm)	120	80	70	45				
Total Weight (kg)	320	710	950	1700				
Welding Unit Weight (kg)	260	360	410	480				
Installed Power (kw)	2-2	3	3	3.75				
Power Supply (V)	400V 3Ph+N 50/60	400V 3Ph+N 50/60	400V 3Ph+N 50/60	400V 3Ph+N 50/60				
	Hz	Hz	Hz	Hz				
Working Pressure (Bar)	5-7	5-7	5-7	5-7				
Item Number	438000100-0600	438000100-1100	438000100-1400	438000100-1700				



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Horizontal Wrapping Machines – STEP H-Wrap Series

Horizontal wrapper is specially designed for long products such as, plastic material, pipes, timber etc. Its principle is rotating the ring holding the film around the product, as it is conveyed forward. These types of wrapping machines are used to wrap a package horizontally to further stabilize where conventional vertical wrapping machines cannot. The STEP H-Wrap Series of machines are engineered to wrap small to medium sized packages and products.



Features:

Packing Material: Stretch Film or Anti-rust Paper

Material Width: 125mm-200mm
 Product dimension max: 200x200mm
 Rotaing Inner Diameter: 400mm
 Conveyor Speed: 5-8m/min

Machine Weight: 600KG

Power Supply: 2kw/AC380V/50HZ
 Machinery Shape Size: (2100 X 1000 X 1400)mm

Infeed and outfeed belts:
 As per demand to order as option

• Item no.: 43801400

STEP H-wrap 1800

Features:

- Rotating ring inner diameter 1800 mm
- Package dimension 100 mm*1200 mm(W*H)
- Packing length >1200 mm
- Rotating ring speed 20-30 rpm
- Conveying speed 5-8 m/min
- Power 2.2 Kw
- Machine Weight 1500 kg
- Machine shape size 2600 mm * 1650 mm *2600 mm
- Packing material width 200 mm- 500 mm
- Item no.: 43801800

