



# PENGUIN

## Stretch Wrapping Machines

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### STRETCH YOUR MONEY TO ENSURE YOU MAXIMIZE SAFE DELIVERY OF YOUR PRODUCT

Penguin is an acknowledged leader in stretch wrap solutions for a wide range of products that comprise pallet wraps to compact wraps and mini-roll-wraps. With a 35-year track record in the industry, Penguin products provide efficient stretch-wrap solutions for both Indian and Global companies, endearing itself to its customers as a dependable manufacturer of industrially advanced stretch wrap solutions.

Penguin machines are designed to International standards and specifications and are built to guarantee high standards of performance, safety and reliability. Penguin aftersales service ensures that machine downtime is minimal and quick turnarounds are achieved in troubleshooting situations at customer locations.

Penguin Engineers commenced manufacturing in 1991 and have since developed competence and infrastructure that positions it at the forefront of the stretch wrapping business, with its state-of--the-art facility located at Coimbatore, Tamilnadu, India.

Penguin Technicians, Engineers and Management Team members have been trained in leading training forums at Italy, Japan & India which places the competence of the company at par with global standards.



Strapping

Pallet Stretch Wrapper



Taping



Fabric Roll Wrapper



Carton Box Wrapper



Reel Wrapper



Mini Roll Wrapper

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# PALLET STRETCH WRAPPER

## Model: CLASSIC (DC Drive & DC Motors)

A robust automatic efficient pallet wrapping machine that provides high quality and sea-worthy palletized loads for high throughput applications. The Penguin "Powered Pre-Stretch unit" greatly economizes in film consumption.

### Salient Features:

- Fully automatic operation machine
- Heavy duty turn table for all industrial applications
- Powered pre-stretch unit ensures stronger packing, while consuming least quantity of film
- Modular in construction
- Powered pre-stretch upto 300% stretch
- Flexible ramp location

## Model: INNOVA (AC Drive & AC Motors)

### Salient Features:

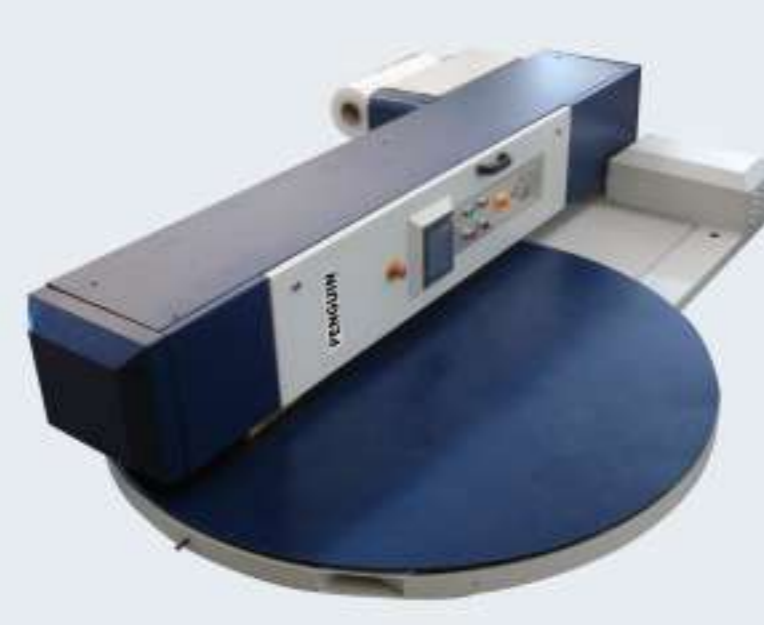
- Variable speed AC motors
- Wrap tension control dancer
- Touch screen HMI
- Top reinforcement wrap
- Bottom reinforcement wrap
- Middle reinforcement wrap
- AC drives
- Foldable mast
- Stretch % display
- Fully covered chain drive
- Fault alarm messages
- Life lubricated gear boxes
- Easy threading of stretch film
- Chain cut sensor
- Forklift lifting sensors
- PLC



**Applications:** Textile Yarns like cotton, polyester, jute etc., castings, canned foods, bottle crates, fertilizers or grains in sacks & bags, pails & tins, carton boxes, ceramic items, tiles and many more.



Easy & quick threading of stretch film



Foldable mast



AC Drives



Leg crush sensor



User friendly pictorial touch screen



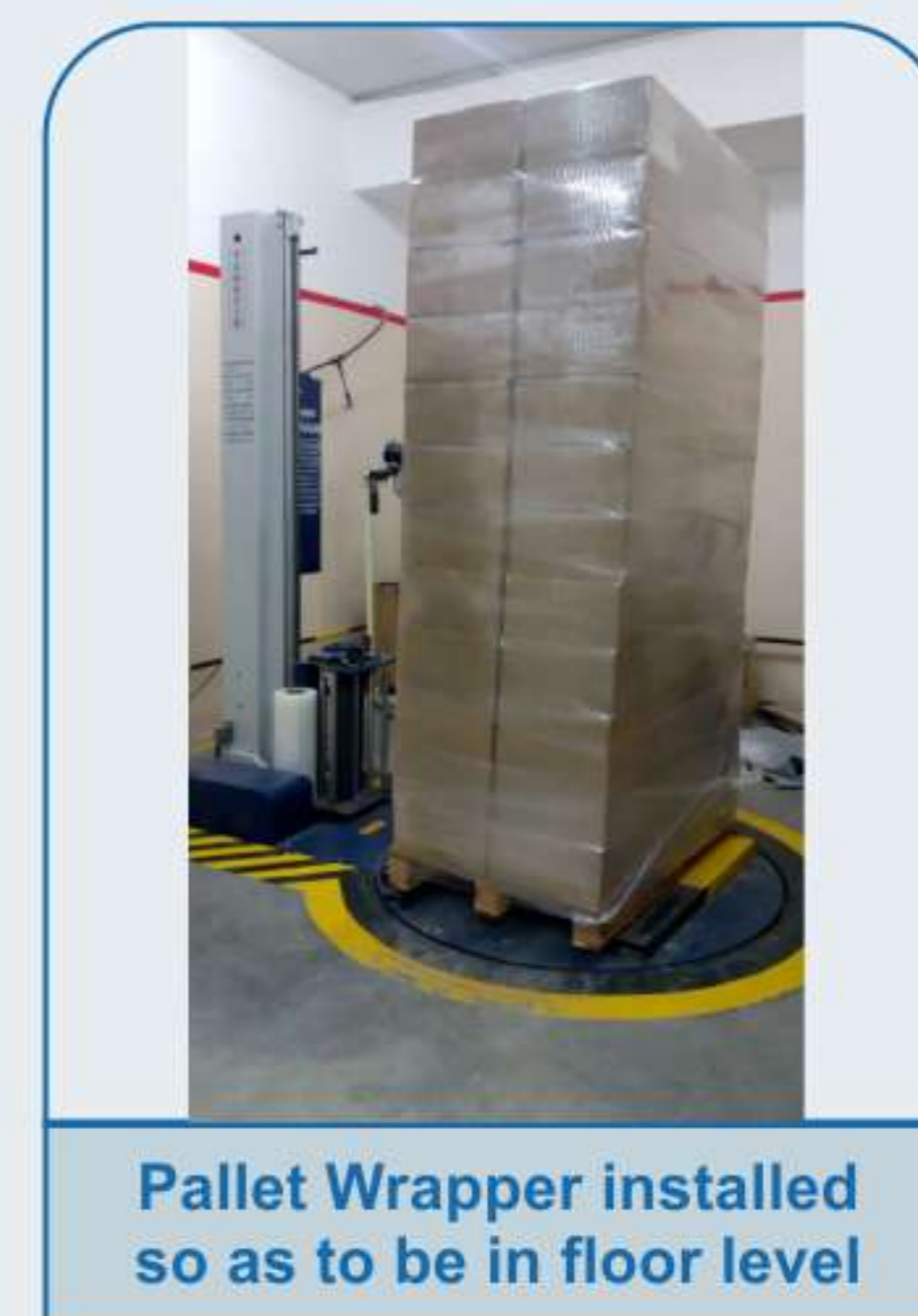
Pallet Wrapper - 3.2 meter Turn table



Pallet Wrapper - 4 meter Mast



Pallet Wrapper with Motorized Top Platen



Pallet Wrapper installed so as to be in floor level



Pallet Wrapper 4 meter Turntable dia.

## Specifications

### INNOVA / CLASSIC

#### CAPACITY:

Production speed : 15 - 25 Pallets / hour  
 Pallet size : 1200 x 1200 mm  
 Pallet height : 2600 mm  
 Max. weight / pallet : 2000 kg

#### MACHINE: \*

Turn table diameter : 1650 mm (Innova)  
 1500 mm (Classic)  
 Turn table height : 80 mm  
 Turn table speed : 1-10 rpm  
 Max. powered stretch : 300%  
 Installed power : 1.5 kW  
 Power supply : 220V, Single phase, 50 Hz

#### FILM DETAILS:

Material : LLDPE Stretch film  
 Film width : 250 - 500 mm  
 Film thickness-Range: 12 - 50 μ  
 Film thickness-Used : 23 / 29 μ  
 Core diameter : 76 mm  
 Max. Film diameter : 250 mm



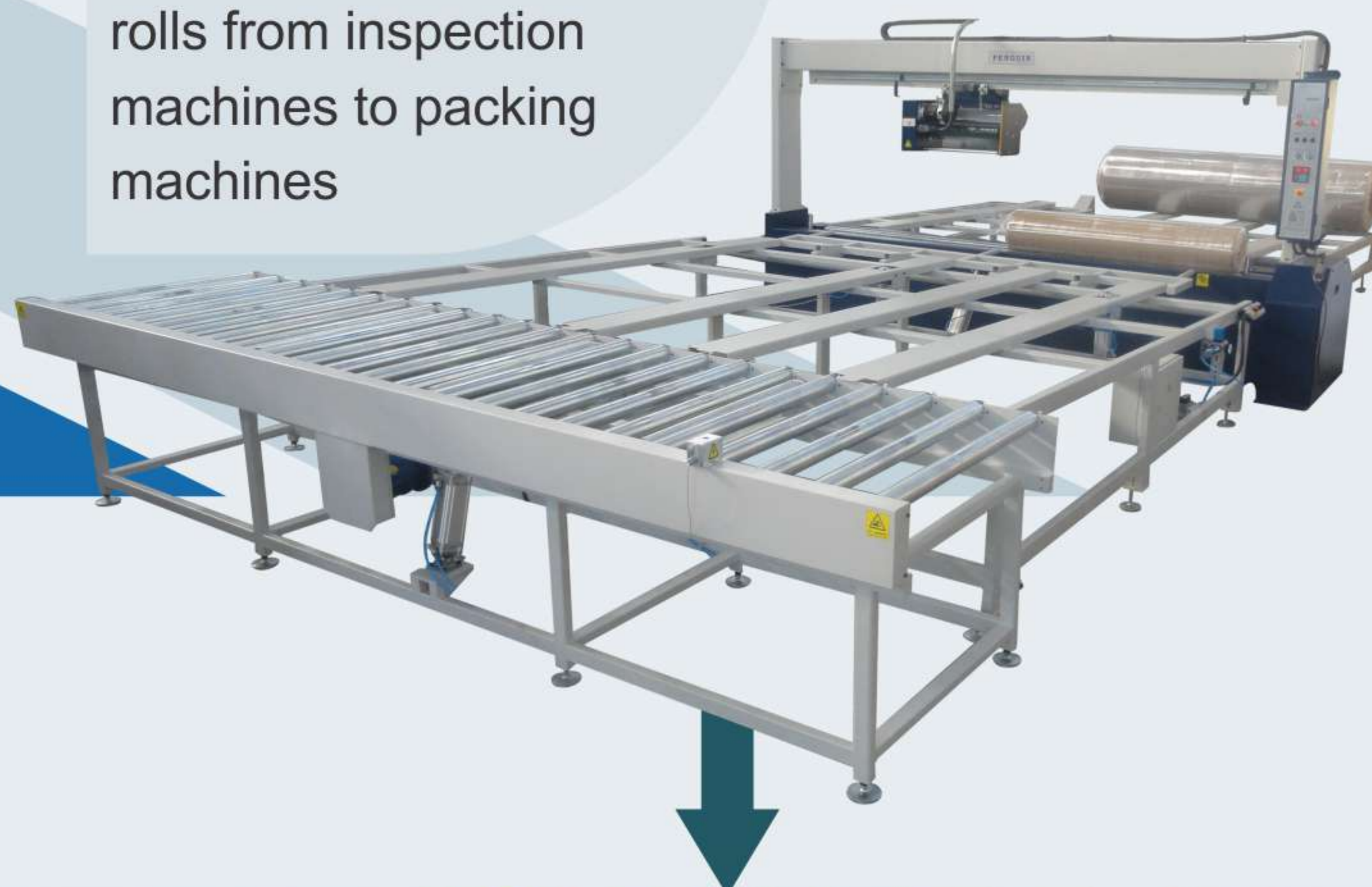
## FABRIC ROLL WRAPPER

Penguin Stretch Wrapping Machine, **Model: FABRIC ROLL** is an universal machine. It is used for stretch wrapping the rolls like fabric rolls, denim rolls, carpets, films, paper rolls etc,. It spirally wraps the long rolls using 500mm width stretch film. Complete moisture proof packing can be achieved by suitable end caps. Machine can be supplied to wrap rolls up to 6m width.



**Applications:** Fabric rolls, Grey cloth, Denim rolls, Carpets, Curtain cloths, Film, Paper, PP Rolls, etc.,

Automatic Roller Conveyor System for transporting rolls from inspection machines to packing machines



SWM with DC Motor & DC Drive



AC Motor & AC Drive



**AWARD WINNER**

### Salient Features:

- Return-of-investment is only a few months
- Outstanding efficiency and economy of the machine won us the prestigious "Pacmachine award"
- Saves 95% of electrical energy compared to shrink wrapping
- Powered pre-stretch upto 300% stretch
- Modular in construction

## Specifications

CAPACITY:		MACHINE: *		FILM DETAILS:	
Rolls / Hour	: 20 - 40 Nos.	Rubberized roll		Material	: LLDPE Stretch film
Weight / Roll (max.)	: 400 kg.	Height (above GL)	: 800 mm	Film width	: 250 - 500 mm
Weight / Roll (min.)	: 20 kg.	Speed	: 50 m / min.	Film thickness-Range	: 12 - 50 μ
Roll diameter (max.)	: 600 mm	Max. Stretch	: 300 %	Film thickness-Used	: 23 / 29μ
Roll width (Standard model)	: 2200 mm	Installed power	: 1.5 kW	Core diameter	: 76 mm
Optional Extra	: Roll width from 2300 mm to 3800 mm	Power supply	: 220V, Single Phase, 50 Hz	Max. Film diameter	: 250 mm
		Standard machine - 3nos.	: DC motors & DC drives	Nett film Weight of	
		Optional extra	: AC motors & AC drives	500 mm width roll	: 15 kg / roll
				250 mm width roll	: 5 kg / roll



## REEL WRAPPER

Penguin **Pallet cum Reel Wrapper** is ideal for axially wrapping a variety of products in reel form. A reel turning motor turns the reel inside the rotating turn table, while the film is wrapping, resulting in a cocoon type packing, ensuring full protection to the reel. This two-in-one machine is suitable for Pallet packing of Paper bundles & for Stretch wrapping reels. Wide flexibility in turn table and reel speed offers various levels of production to reels, labour cost savings and economized film consumption.

### Salient Features:

- Ideal for materials produced in reel form with heavy weights & huge sizes like Paper, Newsprint, Non woven fabric, HDPE Film roll
- Instant change from reel wrapper to pallet wrapper
- Dust free, moisture free cocoon type packing
- Pit mounting of machine ensures fast/controlled product flow
- Optional Pneumatic Reel Ejection System
- Ease of integrating into conveyor lines
- Powered pre-stretch upto 300% stretch

**Applications:** Rolls of paper, film, PP fabric, Denim fabric, HDPE Film roll and foils.



## Specifications

<b>CAPACITY:</b>		<b>MACHINE: *</b>		<b>FILM DETAILS:</b>	
Reels / Hour	: 15 - 30	TURN TABLE		Material	: LLDPE Stretch film
Pallet size	: 1200 x 1200 mm	Diameter	: 1600 mm	Film width	: 250 - 500 mm
Pallet height	: 2500 mm	Height (below GL)	: 540 mm	Film thickness-Range	: 12 - 50 $\mu$
Weight / Reel	: 2000 kg	Speed	: 1 - 10 rpm	Film thickness-Used	: 23 / 29 $\mu$
Reel diameter	: 300 - 1000 mm	Max. Stretch	: 300 %	Core diameter	: 76 mm
Reel width	: 1200 mm	Installed power	: 1.9 kW	Max. Film diameter	: 250 mm
		Power supply	: 220V, Single Phase, 50 Hz		



# CARTON BOX WRAPPER

This table-top model is the supreme packaging system for small and medium sized objects packed in carton boxes. The machine is highly suitable for goods with light weight that can be manually loaded, turned over, wrapped and unloaded from the machine. It gives moisture and dust proof packing for delicate items like garments. The Penguin "Powered Pre-Stretch Unit" greatly economized the film consumption.



### Salient Features:

- Easy handling of light loads
- Provides bi-directional wrapping
- Powered pre-stretch upto 300% stretch
- All six sides are wrapped and protected



### Applications:

Apparels, garments, computer components, handicrafts, food products packed in carton boxes, cans, tins, drums etc.,

## Specifications

CAPACITY:		MACHINE: *		FILM DETAILS:	
Boxes / Hour	: 30 - 75 Nos	TURN TABLE		Material	: LLDPE Stretch film
Box size	: 600 x 600 mm	Diameter	: 900 mm	Film width	: 250 - 500 mm
Box height	: 700 mm	Height (above GL)	: 750 mm	Film thickness-Range:	: 12 - 50 $\mu$
Weight / Box (max.)	: 100 kg	Speed	: 20 rpm	Film thickness-Used	: 23 / 29 $\mu$
		Max. Stretch	: 300 %	Core diameter	: 76 mm
		Installed power	: 0.75 kW	Max. Film diameter	: 250 mm
		Power supply	: 220V, Single Phase, 50 Hz		



## MINI ROLL WRAPPER

Penguin **Mini Roll Wrapper** is specifically designed for packing Flexible packing FFS Film rolls (or) Retread Rubber manufactured in roll forms. Pre-stretched film is stretched across the face of the roll axially and wrapped. The longitudinal applied wraps are moved along the periphery with uniform overlap as the reel rotates continuously resulting in cocoon type packing. All kind of FFS film rolls can be packed in this machine.

### Salient Features:

- Easy to operate table-top model
- Perfect moisture & dust proof packing
- Powered pre-stretch upto 300% stretch

### Applications:

Retread rubber rolls, mini paper rolls, tyres, FFS foil rolls, flexible packages, coils and spools.



## Specifications

CAPACITY:		MACHINE: *		FILM DETAILS:	
Rolls / Hour	: 30 - 75Nos.	TURN TABLE		Material	: LLDPE Stretch film
Weight / Roll (max.)	: 200 kg.	Diameter	: 965 mm	Film width	: 500 mm
Roll diameter (max.)	: 200 - 700 mm	Height	: 785 mm	Film thickness-Range	: 12 - 50 $\mu$
Roll width	: 60 - 500 mm	Speed	: 28 rpm	Film thickness-Used	: 23 / 29 $\mu$
		Max. Stretch	: 300 %	Core diameter	: 76 mm
		Installed power	: 1.1 kW	Max. Film diameter	: 250 mm
		Power supply	: 230V, Single Phase, 50 Hz		

## RING WRAPPER

Penguin **Horizontal Ring Wrapper** is an ideal packaging solution for packing lengthy products. The LLDPE stretch cling film is helically wrapped around the surface of the product, as it moves towards the delivery conveyor from the feed conveyor. Bundling of profiles, sections can be done in this machine.

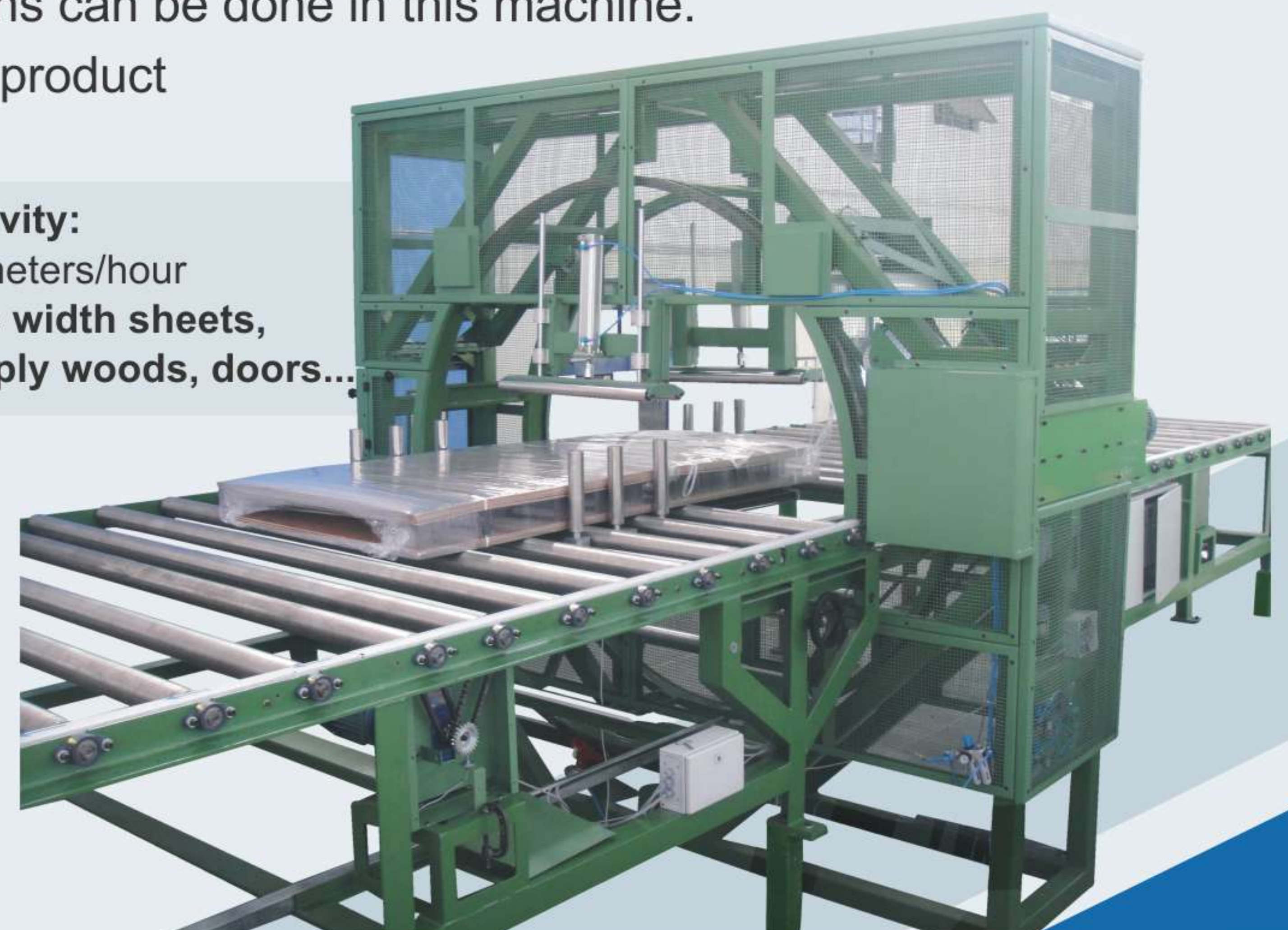
- Machine supplied for any length and cross-section of any product in singles / bundles
- Overlap of film can be varied as desired

### Applications:

Aluminium profiles, Metallic shafts / tubes, rigid PVC pipes, Aluminium and other sections, doors, bundles of a number of cloth rolls etc.,

### Productivity:

50-500 meters/hour  
For wide width sheets, boards, ply woods, doors...



## Specifications

CAPACITY:		MACHINE: *		FILM DETAILS:	
Min. packing size	: 250 x 60 mm	Ring diameter	: 600 / 1000 / 1500 mm	Material	: LLDPE Stretch film
Max. packing size	: 650 x 250 mm	Ring speed	: 35 rpm (max.)	Film width	: 250 - 500 mm
Packing length	: 3m (or) 6m (or) longer	Max. stretch	: 255% (Fixed)	Film thickness-Range	: 12 - 50 $\mu$
		Installed power	: Depends on size	Film thickness-Used	: 23 / 29 $\mu$
		Power supply	: 415V, Three phase, 50 Hz	Core diameter	: 76 mm
				Max. Film diameter	: 250 mm



## COIL WRAPPER

Penguin **Coil Wrapper** wraps the coil shaped products through the eye of the product in a spiral manner. The wrapping material is applied over the product using stretch rollers supported on a vertical ring which has a provision of passing the coil through eye horizontally.

### Salient Features:

- Enables torus shaped products to be wrapped through eye
- A wide range of coil sizes can be wrapped in the same machine
- Human Machine Interface
- Suitable for use with stretch film and HDPE Woven fabric
- Adjustable film overlap
- Cycle time adjustable
- Indigenously made



### Specifications

CAPACITY:	MACHINE: *	FILM DETAILS:
Inner diameter (mm) : Max. 600; Min. 400	Table height : 960 mm	Material : LLDPE Stretch film
Outer diameter (mm): Max. 900; Min. 600	Max. ring speed : 70 rpm	Film width : 100 mm
Height (mm) : Max. 350; Min. 200	Installed power : 3.0 kW / 4.0 HP	Film thickness : 23 - 29 μ
Weight : Max. 150 kg	Power supply : 440V, Three phase, 50Hz	Core diameter : 25.4 mm
		Max. Film diameter : 250 mm
		Number of packing rolls : 2 (one for stretch film roll; one for HDPE Woven fabric)

## CARTON BOX STRAPPING



**Speciality!**

**NO** Clutch Belt Chain

### Specifications

Strap width	: 5 to 15.5mm
Strap thickness	: 0.5 to 0.7 mm
Strap spool coil Ø	: 200 mm
Strap spool width	: 190-200 mm
Speed	: 1m/s for feeding 1m/s for reversing
Tape length	: 1200 m
Machine tension	: 10 N - 500 N
Power supply	: 220V, 50Hz, Single phase
Power consumption:	0.2 kW
Sound level	: 75 dB
Machine weight	: 46 kg (Net)

## CARTON BOX TAPING



- Optional: 3" Tape head
- Available with Flap folder model
- Light duty & Heavy duty machines available
- Side belt drive

**Model: PXC-103SD**

### Specifications

Tape width	: 36mm (1.5") or 50mm (2")
Speed	: 23 m/min.
Carton dimensions	: (L) 120mm to ∞ (W) 100 to 500mm (H) 120 to 500mm
Power supply	: 220V, 50Hz, Single phase
Power consumption	: 0.45 kW
Sound level	: 60 dB
Machine weight	: 160 kg



## POWERED PRE-STRETCH UNIT

- Pre-stretch upto 300% (1sq.m stretched to 4sq.m)
- Robust
- Economy in film consumption
- State-of-the art machine
- Ergonomically designed
- Variable speed motors for the operation with electronic controllers, digital display of stretch percentage and film consumption



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