

麦斯泰克

**Mastek**



## **Foucs On End Of Line Packaging Solution Smart Pallet Strapping Machine**



Mastek Brand Pallet Strapping Machine  
SEPO Brand Ultrasonic Strapping Head

*Crate Continuous  
Value For User*

40+ engineers R&D Team  
export over 92 countries  
50000M2 Super factory  
>1000 automation projects

MAXSERVICE

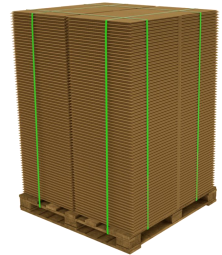
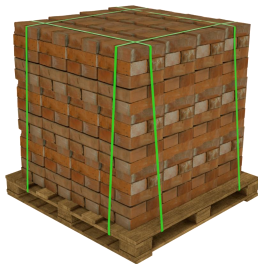
maxservice

Strapping For  
Building Products

Strapping For  
Products in Container

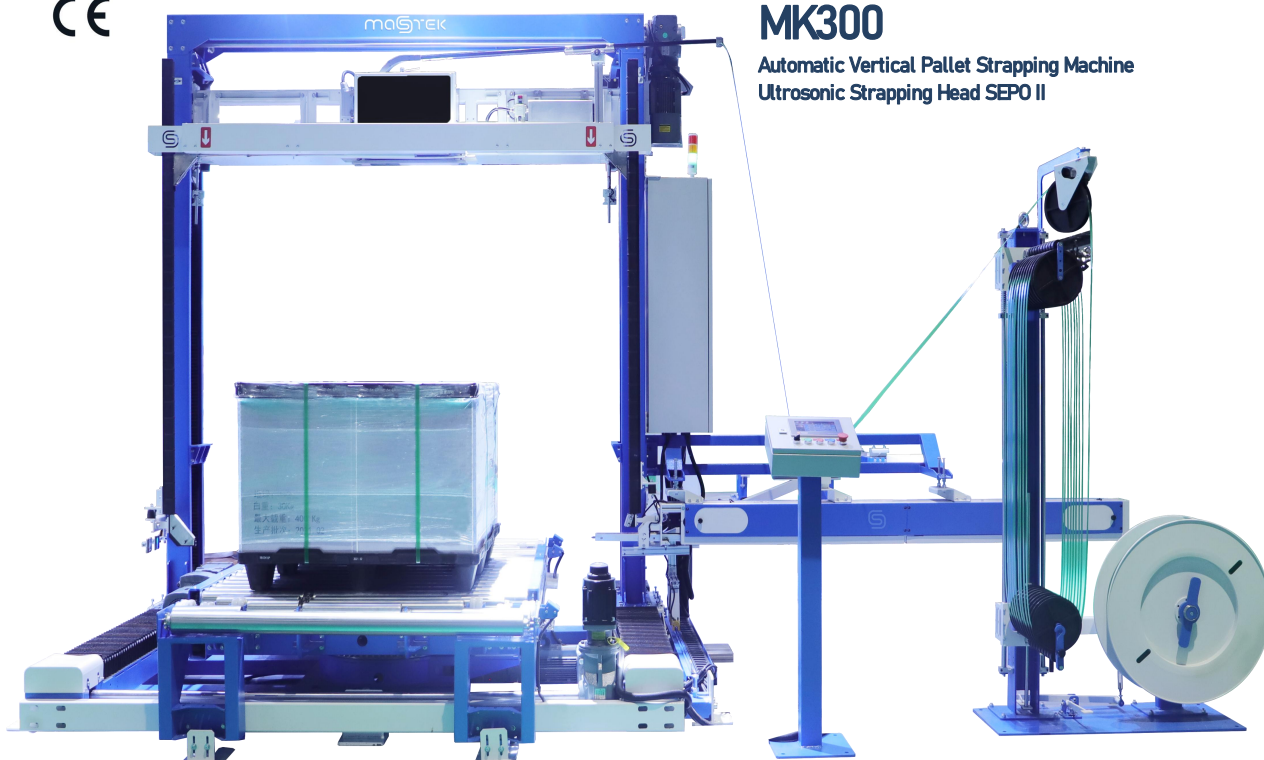
Strapping For  
products In Bag

Strapping For  
Cardbord & Products in Carton box



Deep Cooperation Customer :





## MK300

Automatic Vertical Pallet Strapping Machine  
Ultrasonic Strapping Head SEP0 II

The robust and durable strapping machine MK300 is suit able for palletised packages in all formats and shapes that do not need to be compressed. The MK300 is born to meet requirements of many companies: robust, engineered and easy to use machines at competitive price.

### MK300 Features



#### 1. Advance Technology & Durable Strapping Head

- Ultrasonic type SEP0II: Quiet & dust free working, up to 90% of strap breaking load, Servo Motor drive system, strapping tension adjusted on screen.
- Built for 24 hours continuous operation, hard work for brick or lumber field
- Module Design: Quick Maintenance & fast exchange by 8 screws, Special inner design make maintenance more easier.

#### 2. Quality Control & Multiple service

- MK300 pallet strapping machine use the world famous key spare parts like SEW motor SIEMENS PLC, SIEMENS inverter, SICK sensor.
- 3 years Warranty for Strapping Head, No matter Mastek Ultrasonic version or Friction type strapping head, Mastek both provide 3 years warranty for them.
- IoT remote service \*7x24 technical support, MK300 optional with IoT technology touch screen, we can support customer by remote control and Mastek engineer (who speak english) or local mastek distributor engineer will provide both online support and site service

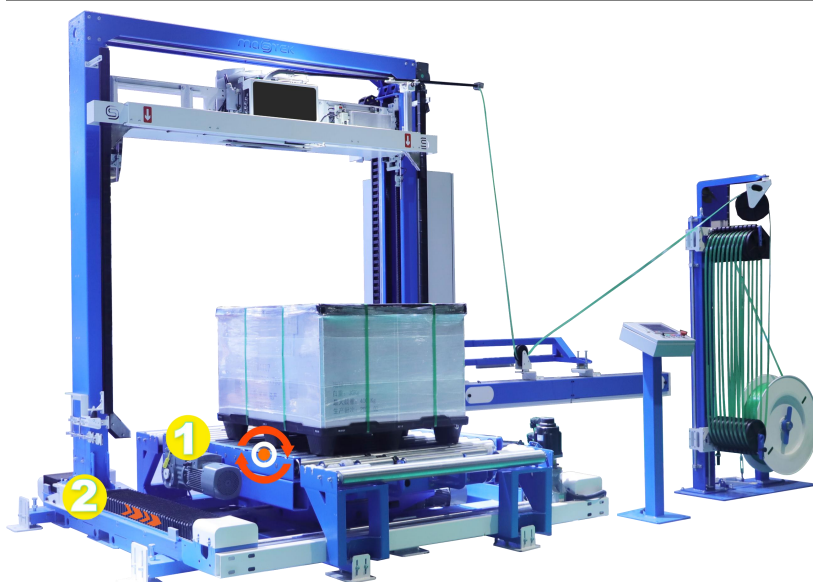


#### 3. Smart operation system

- Operation guidance (show by screen) Guide operator how to do next step, it will be easier for operator to understand the machine, and use the machine smoothly.
- Automatic end of straps detection, improve the straps delivery successful rate. load size adaptive with consistent tension by electric monitor, Make each of strapping tension same on different product size.
- Smart Alarm & solution find in screen, operator or maintenance people can find alarm solution in screen alarm page, MK300 system only one monitor the machine working status and also provide solution for alarm make maintenance faster and easier for customer.



## MK300 Optional :Multifunction Design



### MK300 optional① 90 turntable

Slew Bearing type turntable ,No need maintenance in future ,400-750mm working high ,the turntable turn every 90 degree ,the MK300 will pack one strap on pallet .total turning 4 times achieve each side of pallet have 2 straps. each strap position fixed ,pattern :2x2 2x0 0x2 bypass

### MK300 optional② Moving Frame:

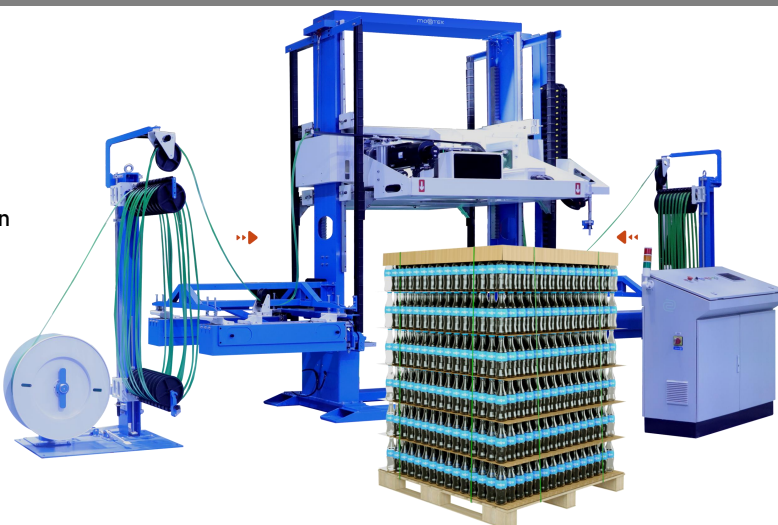
- a. if pack 2 straps both on width side and length side The straps position on side can be different .MK300 will according to pallet each side size to adjust straps position .
- b. make machine suit for different pallet size if all pallets bottom though hole for strapping do not have intersection , Moving frame will according to size to move machine to suit for it .
- c. if length and width side ,one side need strapping over 2 times ,Moving frame + 90 turntable achieve pattern:2x3 3x3 3x2 2x2 2x0 0x2 bypass

## MK300 Optional :Multifunction Design

### MK300Pro Dual Strapping Head Pallet Strapping Machine

1.MK300pro with Strapping Head 2 straps which will achieve pack on pallet at same time ,it will high improve the packing efficiency and suit for unstable pallet like empty bottle which need two steps pack on same time .

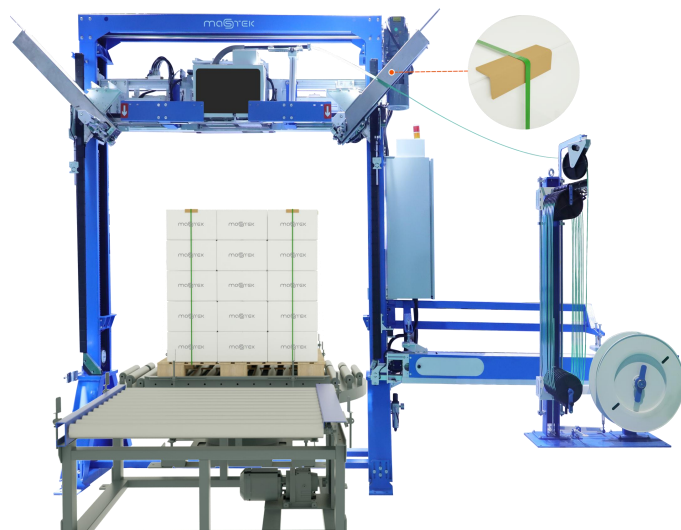
2.If product need be pressure function like Cotton , Mehchemical bag, battery ramw materials bag MK300 Pro can be optional with maximum 500KG Top pressure function on product before strapping .



### MK300 Option Description:

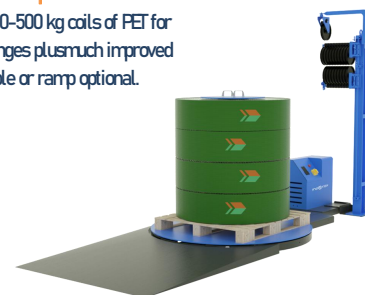
#### Top edge protector applicator

Automatic put the edge corner on pallet so that protect the soft products during strapping .maximum 100pcs 50\*50mm wide and 100mm length paper corner,the corner in round shape also available.



#### Powered super PET jumbo dispenser

1500mm turntable ,From 50-500 kg coils of PET for more uptime, less coil changes plus much improved work safety.M type turntable or ramp optional.



#### Automatic Batten feeder

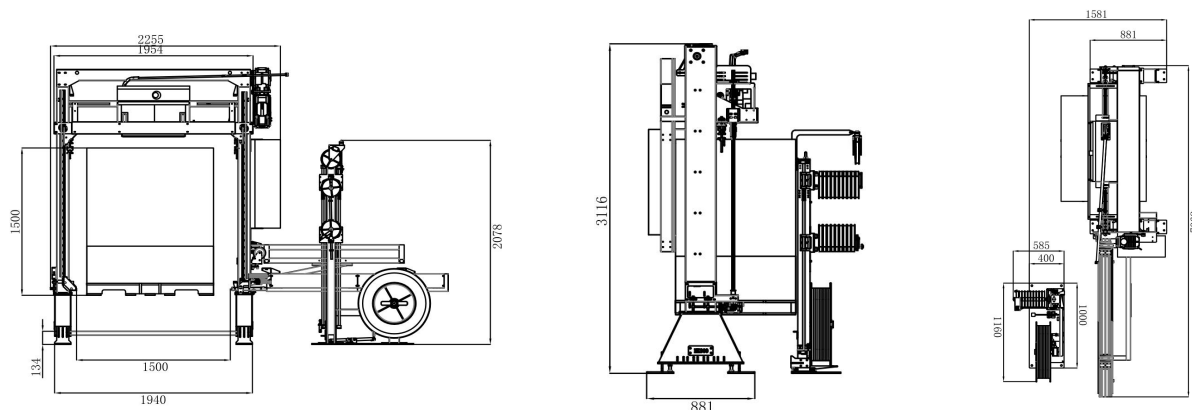
MK300 batten feeder is a custom made function ,widely used in lumber feild,Available as a single or up to three compartment version. Handles battens of different lengths.



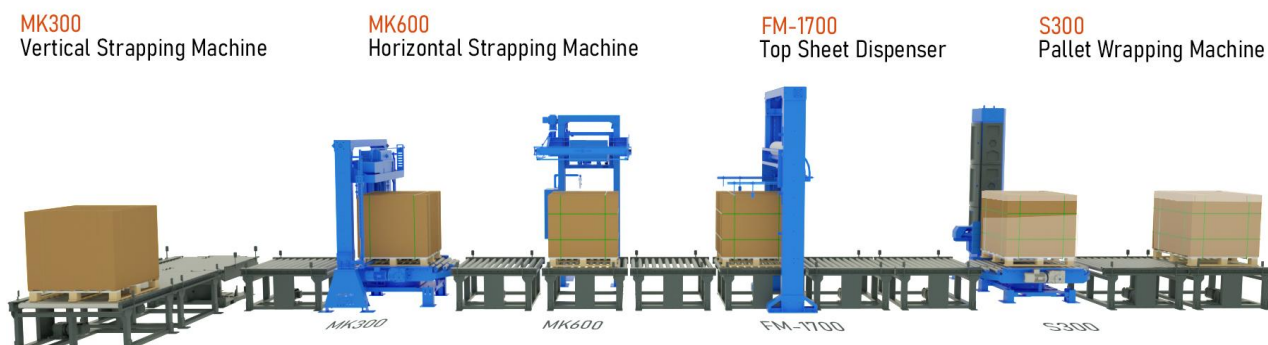


MK300 TECHNICAL DATA		MK300 STANDARD FEATURES	
<b>Performance:</b>		Strapping Head	Top-mounted Ultrasonic SEPOII
Single straps packing speed :	Approx. 15~25 seconds (Depending on product height and width)	PLC Control	SIEMENS (with Ethernet communication)
Maximum load width (conveyor by MK)	1200mm (standard) - 2200mm	Inveter	SIEMENS
Maximum load height	1500mm (standard) - 2500mm	Touch Screen	Masktek IoT Screen
Minimum load size	800*500mm(W*H)	Up and down motor	SEW motor
		Sealing head motor	INOVANCE servo motor
		Sword moving motor	INOVANCE servo motor
Tension range	500-3000N (adjustable)	Sensor	SICK
Straps feeding speed	2m/second	Cylinder	SMC(Only for friction type strapping head)
Joint sealing length	30mm	End of strap signal	Automatic detect
		Sealing unit self clean system	Only for friction type strapping head
<b>Passage Sizes:</b>		Certification	CE
Maximum through width for conveyor	1500mm (standard) - 2500mm	Machine Warranty	One year (3 years for strapping head)
Pallet through hole for straps	Minimum :150*80mm (W*H)	Technical support	24hrs x7 days a week
Conveyor height	500mm (standard) - others on request		
<b>Straps</b>			
PET	1208 (12mm wide/0.8mm thickss) 1508 (15mm wide/0.8mm thickss) 1908 (15mm wide/1.0mm thickss)		
PP	1510 (15mm wide/1.0mm thickss)		
<b>Strap Coil Dispenser:</b>		<b>Optional</b>	
Coil diameter	600-760mm	①strapping head	Friction type
Coil Inner diameter	406mm+10mm	②anti-explsn strapping head	Dust Proof level SEPOII (anti)
Coil width	150mm		
<b>Electricity:</b>		③90 degree turntable	Suit for 2 straps on each side
Power consumption:	2.5KW	④Servo driven moving frame	Suit for different pallet size
Voltage	380V /415/480V/50or 60Hz 3phase	⑤Conveyor system	Roller /Chain/Salt conveyor
<b>Pneumatic Data</b>		⑥Top Protection sheet folding device	For 5mm Paper sheet
Air consumption	2-3 CFM @ 60-80 PSI (only for friction strapping head)	⑦Top edge protector applicator	100pcs *100mm*50/50mm*5mm (paper)
Machine weight	1200KG	⑧Batten feeder	According to requirements
Machine size	3902*1581*3116mm	⑨Powered super jumbo dispenser	Motor driven turntable
		⑩Two straps packing at same time	MK300Pro +(two strapping heads)

### MK300 DIMENSIONS OF MACHINE (in mm)



### End Of Line Packaging Solution :



# MK600

## Automatic Horizontal Pallet Strapping Machine Ultrasonic Strapping Head SEPO II

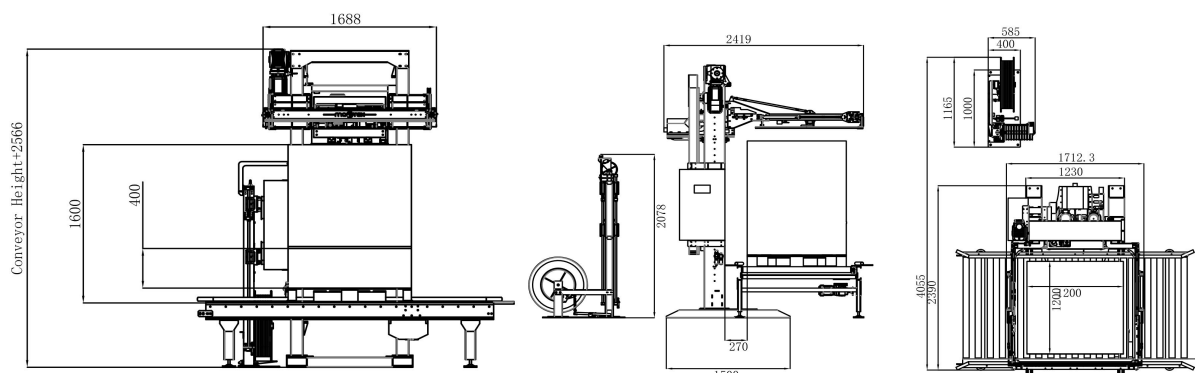
masktek

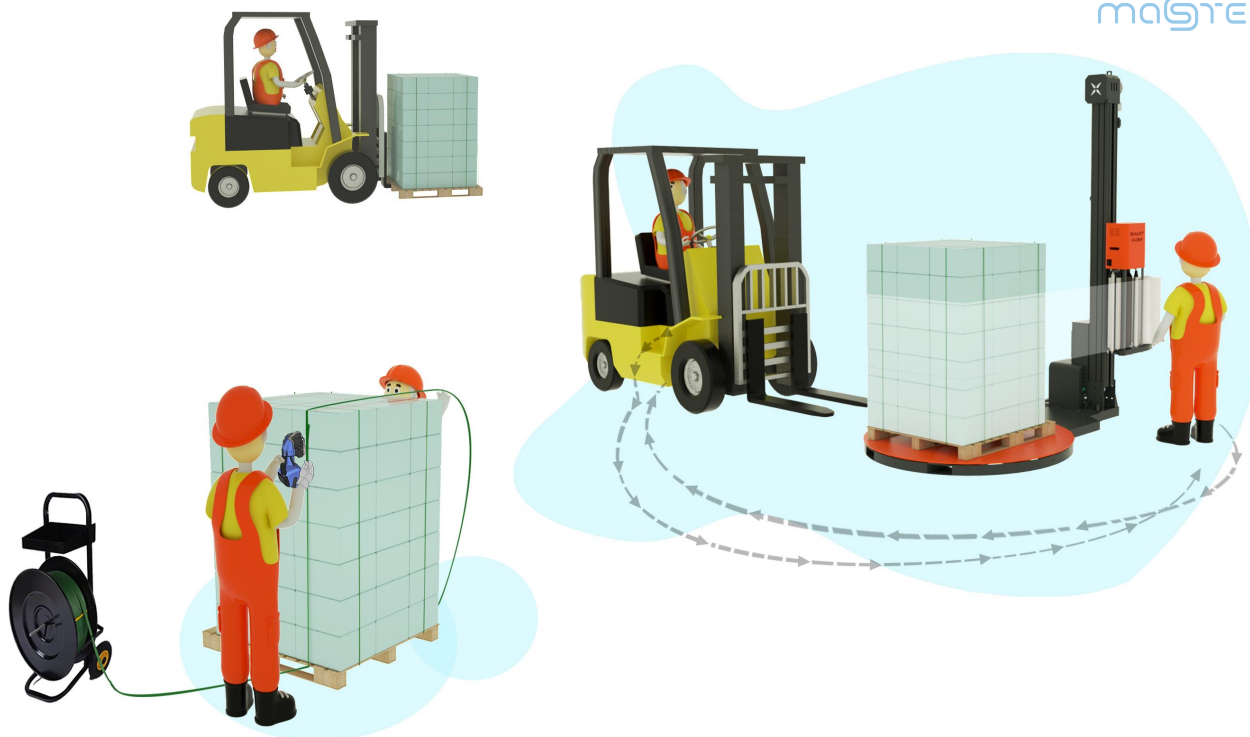


The robust and durable strapping machine MK600 is suit able for palletised packages in all formats and shapes that do not need to be compressed. The MK600 is born to meet requirements of many companies: robust, engineered and easy to use machines at competitive price.

MK600 TECHNICAL DATA		MK600 STANDARD FEATURES	
<b>Performance:</b>		Strapping Head	Top-mounted Ultrasonic SEPOII
Packing	Approx. 15-25 pallet/hour (Depending on product height and width)	PLC Control	SIEMENS
Maximum load width	1200*1200mm (standard) -1400*1400mm	Inverter	SIEMENS
Maximum load height	1500mm (standard) - 2400mm	Touch Screen	Masktek IoT Screen
Minimum load size	800*500mm(W*H)	Up and down motor	SEW motor
Tension range	500-3000N (adjustable)	Sealing head motor	INOVANCE servo motor
Straps feeding speed	2m/second	Cylinder	AIRTAC
Joint sealing length	30mm	Safety Sensor	OMRON
<b>Straps</b>		Position Sensor	SICK
PET	1208 (12mm wide/0.8mm thickss) 1508 (15mm wide/0.8mm thickss)	Strap tension	Adjustable via touch panel
PP	1510 (15mm wide/1.0mm thickss)		
<b>Strap Coil Dispenser:</b>		Certification	CE
Maximum Coil size	600-760mm diameter* 150mm width	Technical support	24hrs x7 days a week
Coil Inner diameter	406mm*10mm	Machine Warranty	One year (3 years for strapping head)
<b>Electricity:</b>		<b>Optional</b>	
Power consumption:	3.7KW	① conveyor system	Suit for 4 straps on pallet
Voltage	380V/50or 60Hz 3phase		
Machine weight	1200KG		
Machine size	3902*1581*2388mm		

### DIMENSIONS OF MACHINE (in mm)





## THE OLD WAY FOR PALLET STRAPPING AND WRAPPING

## A NEW SOLUTION FOR PALLET STRAPPING AND WRAPPING

**MK900** FULLY AUTOMATIC STRAPPING & WRAPPING ALL IN ONE MACHINE  
SAVE LABOUR \* SAVE SPACE \* HIGH EFFICIENCY

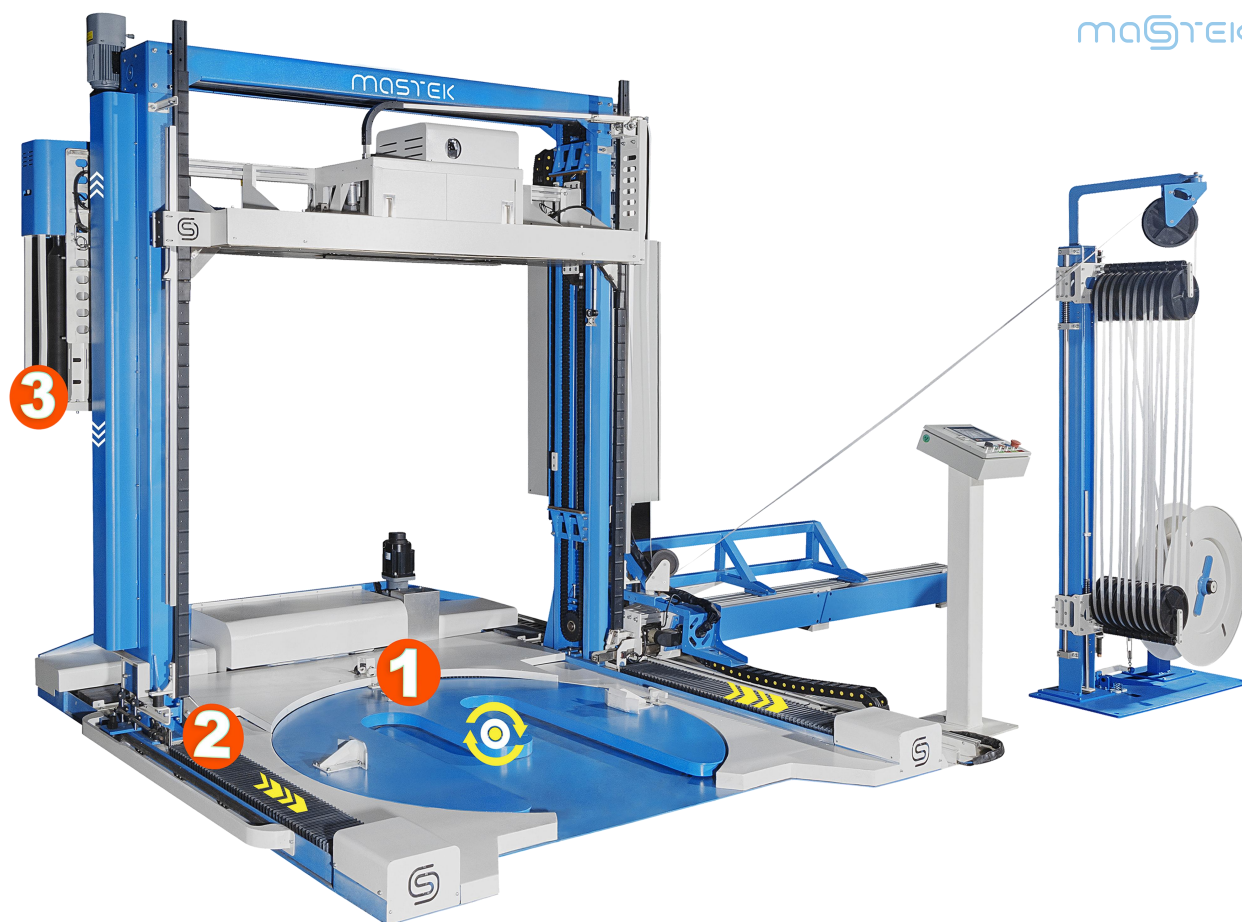
CE



SMART UNMANNED PACKAGING&TRANSPORT SOLUTION :

**MK900** STRAPPING&WRAPPING + AGV **HEMAX 01**





## MK900 Function Description

### ① M Shape Turntable

800KG load weight ,1650mm size ,It normal suit for Europe Type Pallet ,M shape turntable easy for Pallet Jack or AGV load pallet on machine .(If pallet size over 1.2x1.2 or the pallet weight over 800KG,we will recommend use 1500KG loading Turntable and optional with Ramp for hand pallet jack load the pallet on machine )

### ② Moving Frame

Servo Driven Frame is standard function for MK900 ,it will let MK900 suit for different pallet size at same time . working with turntable ,Patten will be :2x0 2x2 0x2

### ③ Fully Automatic Wrapping Film Function

Film carriage with 250% pre stretch rate ,Fully automatic cutting and clamping film function ,NO NEED manual do anything for stretch film function .it will be safe and convient for operator .

## MK900 Features

MK900 :Patented Product By Mastek



### Pallet Strapping & Wrapping All In One Save Labor &space

- Fully automatic strapping machine for both PET and PP,Servo drive moving frame suit for different pallet size .
- Fully automatic wrapping machine with pre-stretch 250%



### SMART Operation System High efficiency

- Operation guidance (show by screen )
- Smart Alarm & solution find in screen
- Fully automatic cutting and clamping film
- Remote start machine

## MAXSERVICE



### Durable parts&Mutiple service Reliable Quality

- Ultrasonic Strapping Head
- SIEMENS Electric parts SICK sensor...
- 3 years Warranty for Strapping Head
- IoT remote service +7x24 technical support service

## MK900 TECHNICAL DATA

### Performance:

Packing speed :	Approx. 15-25 pallet/hour
	(Depending on product height and width)
Maximum load width	1200mm (standard) - 1650mm
Maximum load height	500mm (standard) - 1500mm
Minimum load size	800*500mm(W*H)
Tension range	500-3000N (adjustable)
Straps feeding speed	2m/second
Joint sealing length	30mm

### Straps

PET	1208 (12mm wide/0.8mm thickss)
	1508 (15mm wide/0.8mm thickss)
PP	1510 (15mm wide/1.0mm thickss)

### Strap Coil Dispenser:

Maximum Coil size	600-760mm diameter*150mm width
Coil Inner diameter	406mm*10mm

### Electricity:

Power consumption:	3.7KW
Voltage	440V/50or 60Hz 3phase
Machine weight	1200KG
Machine size	3902*1581*2388mm

## MK900 STANDARD FEATURES

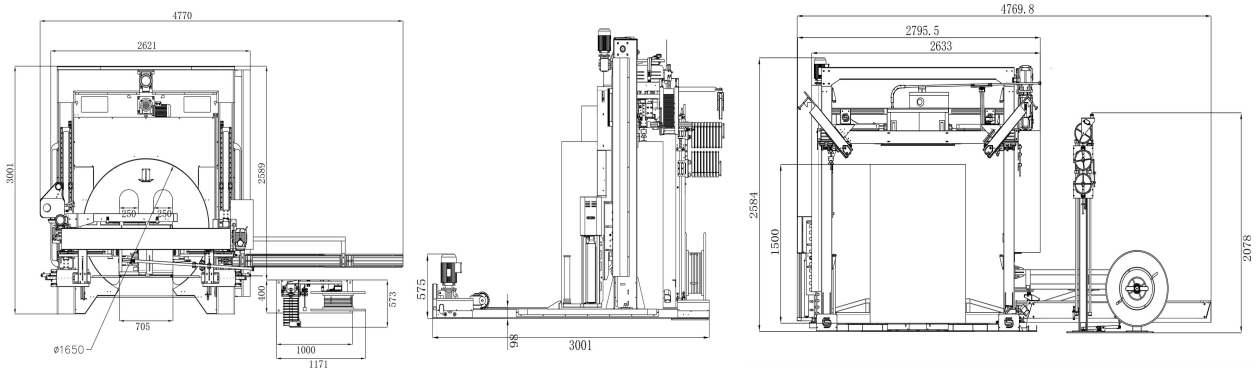
Strapping Head	Top-mounted Ultrasonic SEP011
PLC Control	SIEMENS
Inverter	SIEMENS
Touch Screen	Masktek IoT Screen
Up and down motor	SEW motor
Sealing head motor	INOVANCE servo motor
Sword moving motor	INOVANCE servo motor
movable frame motor	INOVANCE servo motor
Sensor	SICK

Certification	CE
Technical support	24hrs x7 days a week
Machine Warranty	One year (3 years for strapping head)

### Optional

①2000KG load turntable	
②AGV	
③Top Protection sheet folding device	For 5mm Paper sheet
④Top edge protector applicator	100pcs *100mm*50/50mm*5mm (paper)

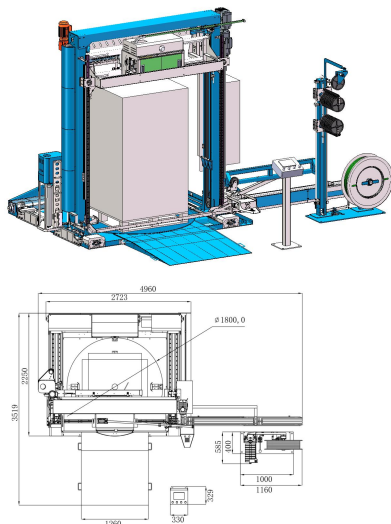
## DIMENSIONS OF MACHINE (in mm)



## Option Description

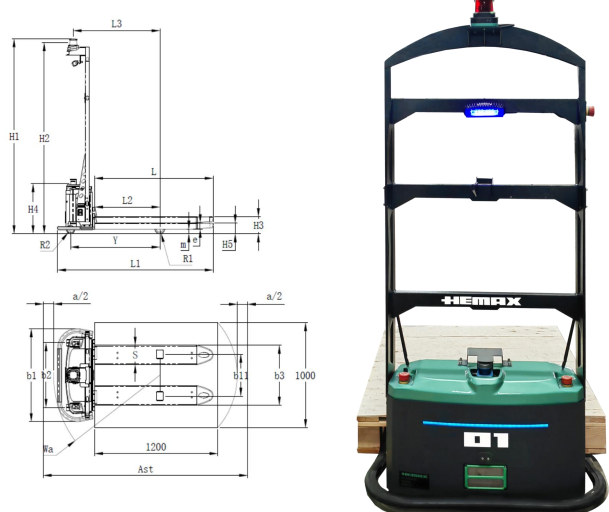
### High Compatibility Turntable :MK900 Pro

1800mm Turntable with maximum 1500KG load weight ,maximum suit for 1.25x1.25 pallet .Suit for All kindly of pallet shape (Straps Though Hole Should over 250mm lengthx80mm high) ramp for hand pallet jack to load the pallet on machine



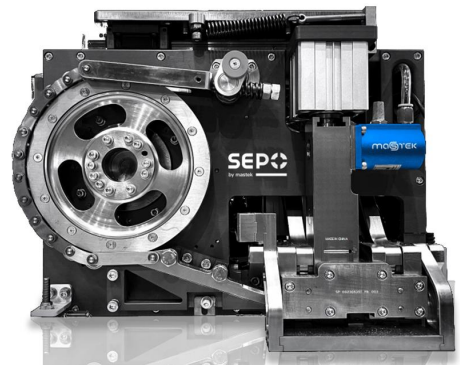
### HEMAX AGV System:HM01 ( Base on SRC Laser SLAM )

1000KG maximum load weight,Lift Height 174mm ,forks Height 104 Laser Radar + 3D Havcam  
8 Hours working time  
Precise Positioning +/- 10mm





maSTeK



Mastek ultrasonic sealing heads have advanced strapping systems offering major advantages over traditional seal technologies like Heat weld .Using ultrasonic sealing, low amplitude high frequency vibrations are transmitted to the ends of the plastic strapping material creating a solid sealing. A custom ultrasonic of the new sealing unit, joins the strap ends at high speed for superior and consistent strapping seals.Unlike heat seal systems, SEPO II ultrasonic strap seals are made without the use of high temperature components, improving safety and generating lower emissions. The" less is more "design concept is operator friendly requiring minimal maintenance and reduced parts usage.



### Less Is More Durable Design

- ★ Less Wear Parts
- ★ Less preventative Maintenance .
- ★ Less Complicated inner design (each parts by module design )

Three Years Warranty For everythings of ultrasonic strapping head



### Ultrasonic & Servo Technology High Performance

- ★ Ultrasonic Sealing Both for PP & PET
- no Smoke ,No Dust, Low Noise Level
- ★ >90% of the strap breaking load
- ★ Servo system precise control every strap tension for consistent seal in any invironment.

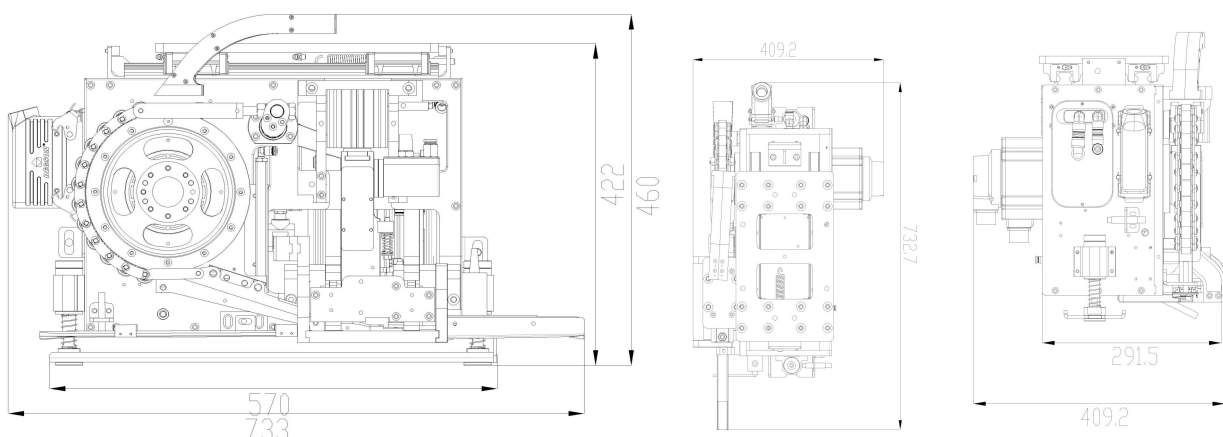


### Smart Function Safer Operation

- ★ Smart Slef Cleaning system ,Reduce Manual Clean action.
- ★ Smart End of Strap Position Detection ,Make sure straps always in right position by sensor .Reduce manual Checking.
- ★ Smart Tension Electric Adjustable Via HMI,More safer and visible .

TECHNICAL DATA		Strap/Joint	
<b>Kind of drive</b>	Servo Motor Drive	Type of strap	
Tension force	500 - 3,000 N (adjustable) Standard	PP	
Mains voltage	380V/220 V AC / 50 Hz/60HZ 3P/1P	PET	
Connected load	2.5 kW	<b>Straps size</b>	
Current consumption	4 A	PET	1208 (12mm wide/0.8mm thickss)
Strap conveying speed (depending on strap thickness)	approx. 2 m/s approx. 6.6 ft/s		1508 (15mm wide/0.8mm thickss)
Screws Quantity for installation	8 screws		1908 (15mm wide/1.0mm thickss)
Weight	ca. 80 kg approx. 176 lb	PP	1510 (15mm wide/1.0mm thickss)
Electric Drawing /Program Logic /Machine frame drawing	Available	Kind of seal	Ultrasonic Seal/Friction
		Sealing strength	<b>up to 90% of the strap breaking load</b>
		(depending on strap quality, strap	
		Warranty	<b>3 Years</b>

Drawing by mm







Packing Materials & Tool



Mastek Tool Box



Mastek Knife for film & strap



1508 PET Strap



14mic Super Nano Film

mas-tek

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