

## GENESIS FUTURA CUBE

The Cube is a very fast rotating ring stretch wrapping machine to wrap and stabilise loads on pallets with stretch film suitable for all industry sectors. At 80 revolutions per minute possibly the fastest wrapper in the world. The Genesis Cube series of pallet stretch wrapping machines operate without sliding electrical contacts, is unique in that the drive for the pre stretch rollers is via stationary servo motors which can modulate both the pre stretch ratio and the lay on force (wrapping pressure) on a continuous basis. This technical and highly innovative solution, in addition to eliminating all the typical problems of sliding contacts, also means that loads especially prone to crushing such as tissues, PET bottles etc can be wrapped perfectly with the minimum amount of film. This system is very flexible and can adjust to the particular wrapping requirements for mixed loads quickly and easily.



This results in reduced maintenance, high reliability, high flexibility and long working life. Furthermore, construction solutions have been adopted to minimise transport costs and installation time giving economic advantages for the end user. Maximum output capacity 135 Pallet/h depending on line speed and the total number of revolutions of film required.

### Following are some advantages that the new model in comparison with :

- a more accurate control of the stretch resulting in increased warranty given film consumption
- increased reliability
- an easier maintainability

## DISTINGUISHING MARKS



### ROTATION UNIT

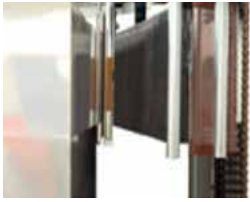
The Rotating ring is a precision engineered component guaranteed to work at maximum speed. The smooth running of the ring assembly extends the working life of the parts in motion. Drive to the ring is created by a high resistance flat belt which is both very durable and extremely quiet in operation. Rotation speed, acceleration and deceleration is controlled by a frequency inverter further extending the working life of the equipment.



### RING LIFT

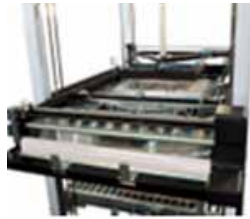
Interconnected double chain arrangement mounted on a robust 4 column steel frame guarantees synchronous vertical movement of the ring assembly – Anti drop mechanisms are fitted as standard in the unlikely event of chain failure. Ring lift/lowering speed is controlled by frequency inverter.

## AUTOMATIC FILM REEL



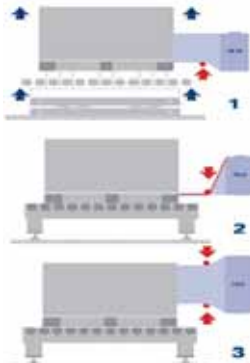
### CLAMP AND CUT

Pneumatically driven clamp unit with hot wire film cut that also includes a film tail welding device as standard.



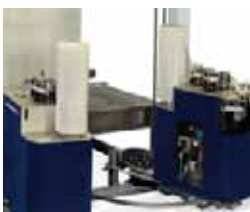
### TOP SHEET COVER

TOP INSIDE device to cover the pallet with polyethylene film. Film is dispensed using a patented system that unwinds the correct amount of film, optimising consumption and perfectly centring the top sheet over the pallet. Film dispense and deposit occur without reducing machine production capacity.



### "ROPING" DEVICE (OPTION)

- System that reduces the film strip into a "rope" to ensure a more effective stabilization of the load.
- SINGLE MOVEMENT FROM THE BOTTOM warning: this feature is only possible if combined adoption of the lift center machine.
- SINGLE MOVEMENT FROM THE TOP warning: if the pallet height is less then 144 mm. should be added to the lifting device.
- DOUBLE MOVEMENT Formation of a double "rope".



The new automatic film reel change (ARC 2) uses two carriages located locally to the rotating ring and within the machine's safety guards, once the reel is finished on the pre-stretch carriage, it automatically expels the core and fits a new reel. The reel change unit is then reloaded by an operator without stopping the machine. This new device extends the duty cycle of the machine and results in higher production capacity. The automatic reel change assembly can be provided as a single or double unit as required.

## TECHNICAL SPECIFICATIONS

CARATTERISTICHE TECNICHE STANDARD/TECHNICAL FEATURES STANDARD				
MACCHINA/MACHINE		GENESIS CUBE	GENESIS CUBE T.I.	GENESIS CUBE T.I. ARC2
A	mm/inches	2000/80	2500/100	2500/100
B	mm/inches	1770/70.8	1770/70.8	2740/109.6
C	mm/inches	3770/150.8	4270/170.8	5240/209.6
D	mm/inches	7250/290	7250/290	7250/290

E	mm/inches	2040/81.6	2040/81.6	2040/81.6
F	mm/inches	3120/124.8	3120/124.8	3120/124.8
G	mm/inches	2040/81.6	2040/81.6	2040/81.6
H	mm/inches	4180/167.2	4675/187	4675/187
I	mm/inches	550/22	550/22	550/22
L	mm/inches	2000/80	2000/80	2000/80
Dimensioni min-max prodotto(*) min-max pallet dimensions(*)	mm inches	500*600- 1100*1300 20*24- 44*52	500*600- 1100*1300 20*24- 44*52	500*600- 1100*1300 20*24- 44*52
Dimensioni min-max pallet di legno(*) min-max wooden pallet dimensions(*)	mm inches	400*600- 1000*1200 16*24- 40*48	400*600- 1000*1200 16*24- 40*48	400*600- 1000*1200 16*24- 40*48
Fronte di avanzamento min-max(*) min-max front leading(*)*	mm inches	500-1100 20-11	500-1100 20-11	500-1100 20-11
Altezza min-max pallet min-max pallet height	mm inches	500- 2000/20-80	500- 2000/20-80	500- 2000/20-80
Altezza min-max trasporti Conveyors height	mm inches	500/20	500/20	500/20
Velocita anello- Ring speed	mm inches	72	72	72
Capacita produttiva(**) Output capacity(**)*	rpm	135	115	115
Carrello prestiro STD STD pr-stretch carriage*	pallet/h	BPSV	BPSV	BPSV

- (\*)possibilita di avvolgere il mezzo ed il quarto di pallet-possibility of stretch wrapping the half and quarter pallet
- (\*\*\*)In determinate condizioni di avvolgimento e definite dimensioni del pallet-Under defined wrapping cycles and pallet sizes

### CARATTERISTICHE ELETTRICHE STANDARD/STANDARD ELECTRICAL FEATURES

Protezione-protection		IP54	IP54	IP54
Tensione alimentazione Power supply voltage	v	380-400-415	380-400-415	380-400-415
Frequenza alimentazione Power supply frequency	hv	50	50	50
Potenza installata-power installed	kw	13	14	114

### CARATTERISTICHE PNEUMATICHE STANDARD/STANDARD PNEUMATIC FEATURES

Pressione aria compressa-air pressure	bar	6±1	6±1	6±1
Consumo d'aria-air consumption	N/min	350	450	450

### CARATTERISTICHE BOBINA/REEL FEATURES

Altezza bobina-reel height	mm inches	500 - 750(optinale) 20 - 30 (optinal)	500 - 750(optinale) 20 - 30 (optinal)	500 - 750(optinale) 20 - 30 (optinal)
max diametro bobina max reel diameter	mm inches	250 - 10 10	250/10	250/10
Altezza cartone bobina Cardboard reel height	mm inches	510 20.4	510/20.4	510/20.4
Spessore film consigliato/lavorabile Flim thickness recommended/workable	µm	17 - 23 / 12 - 30	17 - 23 / 12 - 30	17 - 23 / 12 - 30
Lato collante-adhesiva side		interno internal	interno internal	interno internal
Spessore film TOP-TOP Flim thickness	µm		40 - 100	40 - 100

### DIMENSIONS

Min-max product dimensions	500 x 600 mm - 1100 x 1300 mm 20" x 24" - 44" x 52"
Min-max wooden pallet dimensions	400 x 600 mm - 1000 x 1200 mm 16" x 24" - 40" x 48"
Min-max pallet height	500 - 2000 mm 20" - 44"

### REEL CHANGE TECHNICAL DATA

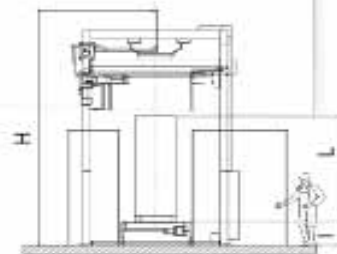
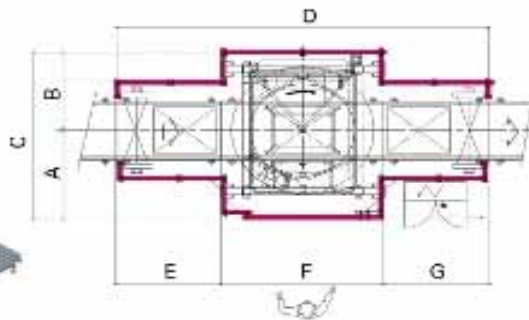
- Reel change average speed - 45/60 sec.
- Quantity of film reel stored - n° 2 o.d. 250 mm
- Air consumption - 20nl/min. 6 atm.
- Total weight - kg.550

### TECHNICAL DRAWINGS

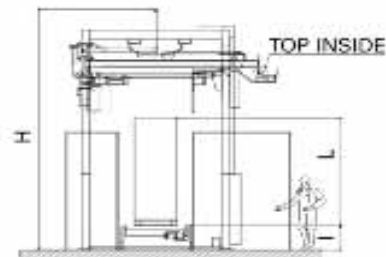
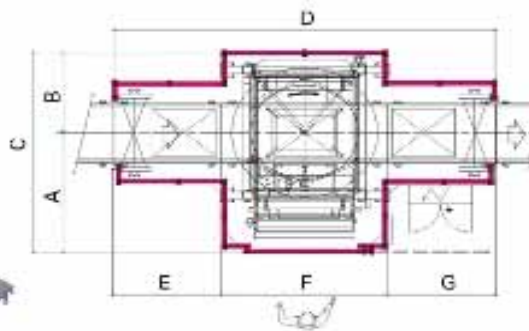
- Technical drawings of this machine are available ON REQUEST.

## LAYOUT

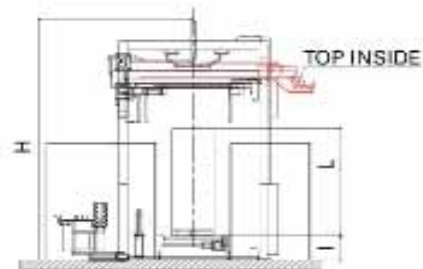
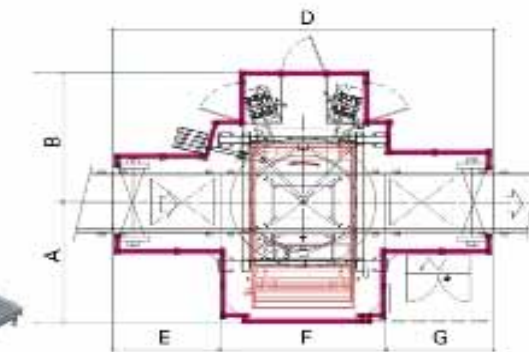
### LAYOUT



### GENESIS CUBE



### GENESIS CUBE TOP INSIDE



### GENESIS CUBE TOP INSIDE ARC2

PROTEZIONI PERIMETRALI A NORME CE CON FOTOCELLEULE A PROTEZIONE INTRINSECA, PERIMETRAL GUARDS ACCORDING TO CE WITH SAFETY PHOTOCELLS BARRIERS.

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