

HELIX 3

Fully automatic pallet stretch wrapping machine with rotating arm for stretch wrapping palletized loads with polyethylene stretch film where medium to high production outputs are required. Thanks to the rotating arm technology, the stretch wrapping process is performed on a static pallet thus eliminating any risk of product falling from the load during the wrapping process regardless the arm rotation speed. Every pallet stretch wrapper from Robopac Sistemi can be fitted with a power pre stretch film delivery system that reduces film usage by up to 50% compared with hand wrapping and substantially increases load stability and presentation. Pre stretch ratio adjustable by changing gears or from the control panel.



Helix machines represent the ideal solution for wrapping light, easily deformable, unstable loads and are present in most market segment fields. Due to versatile construction of the rotary arm design the Helix range of stretch wrapping machines can be configured to wrap an outstanding range of products both larger and smaller than the standard pallet format. Helix 3 is ideal for an output capacity up to 65 loads/h depending on line speed, top cover and the total number of revolutions of film required.

DISTINGUISHING MARKS

ROTATION UNIT



Direct, geared drive to the arm rotation unit ensures maximum duty cycle and minimum backlash. Robust and tubular steel framework results in maximum operating reliability during heaviest work conditions. Inverter control of the rotation arm produces smooth acceleration and deceleration safeguarding the integrity of the transmission train.

CARRIAGE LIFTING



Double chain system for maximum safety in any work condition. OPTION - Up/down carriage speed controlled by inverter and continuously adjustable from control panel with possibility of changing the film overlap either on the upward or downward cycle.

TOP SHEET COVER



Top sheet load covering devices. In the TOP INSIDE version the top sheet is applied "mid cycle" to produce a waterproof wrap. Capacity of the machine is slightly reduced. TOP OUTSIDE indicates the top sheet is applied outside the machine before wrapping giving a dustproof wrap. Capacity of the machine is unaltered.

TOP PLATEN UNIT



Positive pneumatically driven clamping device used with top cover systems (Top Inside/ Outside) or for especially unstable/tall loads. Also available with pantograph system (shown) for pallets with large height variation or installations with low ceiling height.



ROPING DEVICE (OPTION)

Device that reduces the film strip into a “rope” to ensure more efficient load stabilisation by making the and pallet a single homogenous unit. Film is gathered from above or below in the single movement version while it is grouped at the centre in the dual cylinder version.



CLAMP AND CUT

Scissor clamp with hot wire film cut (shown); optional press on welding unit available. OPTION – Spring/ring clamp (ROBOPAC patent) with pulse hot wire film cut and film tail welding device (no contact with load).

TECHNICAL SPECIFICATIONS

CARATTERISTICHE TECNICHE STANDARD/STANDARD TECHNICAL FEATURES			
MACCHINA/MACHINE		HELIX 3	HELIX 3 T.I.
A	mm/inches	2000/80	2000/80
B	mm/inches	2000/80	2000/104
C	mm/inches	4000/160	4000/184
D	mm/inches	8000/320	8000/320
E	mm/inches	2040/81.6	2040/81.6
F	mm/inches	3600/144	3600/144
G	mm/inches	2040/81.6	2040/81.6
H	mm/inches	4185/167.4	4185/167.4
I	mm/inches	2000/80	2000/80
L	mm/inches	500/20	500/20
Dimensioni min-max pallet(*) min-max pallet dimensions(*)	mm inches	600 * 800 - 1200 * 1200 24 * 32 - 48 * 48	
Fronte di avanzamento min-max(*) min=max front leading(*)*	mm inches	800 - 1200 32 - 48	

Altezza min-max pallet min-max pallet height	mm inches	500 - 2000 20 - 80	
Altezza min-max trasporti Conveyors height	mm inches	500 20	
Velocita braccio-arm speed	rpm	22	
Capacita produttiva(**) Output capacity(**)*	pallet/h	65	55
Carrello prestiro STD STD pr-stretch carriage*		pgsm	pgsm
Percentuale prestiro in dotazione Pre-stretch ratio included		177 %	177 %

- (*)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

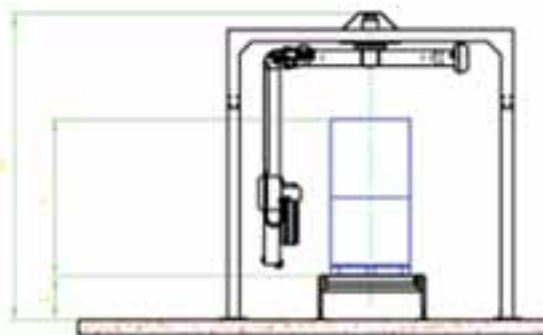
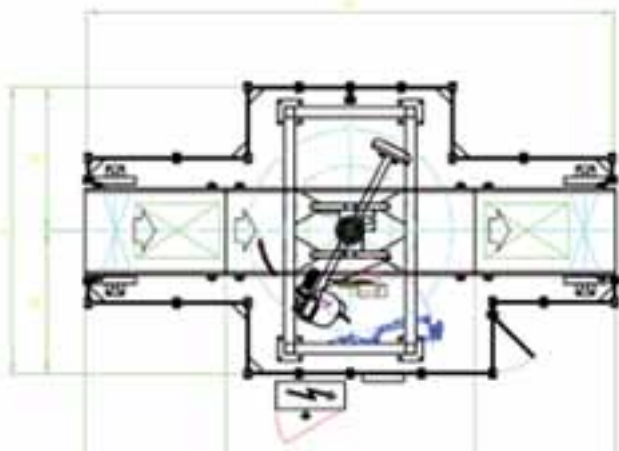
CARATTERISTICHE ELETTRICHE STANDARD/STANDARD ELECTRICAL FEATURES			
Protezione-protection		IP54	
Tensione alimentazione Power supply voltage	v	380 - 400 - 415 ± 5 %	
Frequenza alimentazione Power supply frequency	hv	50	
Potenza installata-power installed	kw	3	3.6

CARATTERISTICHE PNEUMATICHE STANDARD/STANDARD PNEUMATIC FEATURES			
Pressione aria compressa-air pressure	bar	6	
Consumo d'aria-air consumption	NI/min	350	350

CARATTERISTICHE BOBINA/REEL FEATURES

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

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DIMENSIONS

CARATTERISTICHE ELETTRICHE STANDARD/STANDARD ELECTRICAL FEATURES

STD Min pallet dimensions	600 x 800 mm
STD Max pallet dimensions	1200 x 1200 mm
STD Pallet Height	2000 mm
Possibility of stretch wrapping half and quarter pallet.	