

## HELIX 4/2

Fully automatic pallet stretch wrapping machine with twin rotating arms for stretch wrapping palletized loads with polyethylene stretch film where very high production outputs are required or loads which require an above average amount of film to contain them effectively. Thanks to the twin 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 which 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 the 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 4/2 is ideal for an output capacity up to 170 loads/h depending on line speed, and the total number of revolutions of film required.

## DISTINGUISHING MARKS



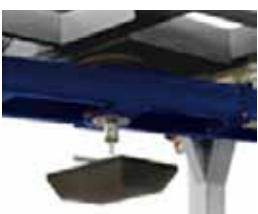
### ROTATION UNIT

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 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.

## 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.



## 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 4/2
A	mm/inches	2100/84
B	mm/inches	2100/84
C	mm/inches	4200/168
D	mm/inches	7620/304.8
E	mm/inches	3000/120
F	mm/inches	1560/62.4
G	mm/inches	3000/120
H	mm/inches	3700/148
I	mm/inches	2000/80
L	mm/inches	500/20
Dimensioni min-max pallet(*) min-max pallet dimensions(*)	mm inches	600 * 800 - 1000 * 1200 24 * 32 - 40 * 48

Fronte di avanzamento min-max(*) min-max front leading(*)*	mm inches	600 - 1000 24 - 40
Altezza min-max pallet min-max pallet height	mm inches	500 - 2000 20 - 80
Altezza trasporti Conveyors height	mm inches	500 20
Velocita braccio-arm speed	rpm	38
Capacita produttiva(**) Output capacity(**)*	pallet/h	170
Carrello prestiro STD STD pr-stretch carriage*		SCSP

- (\*)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

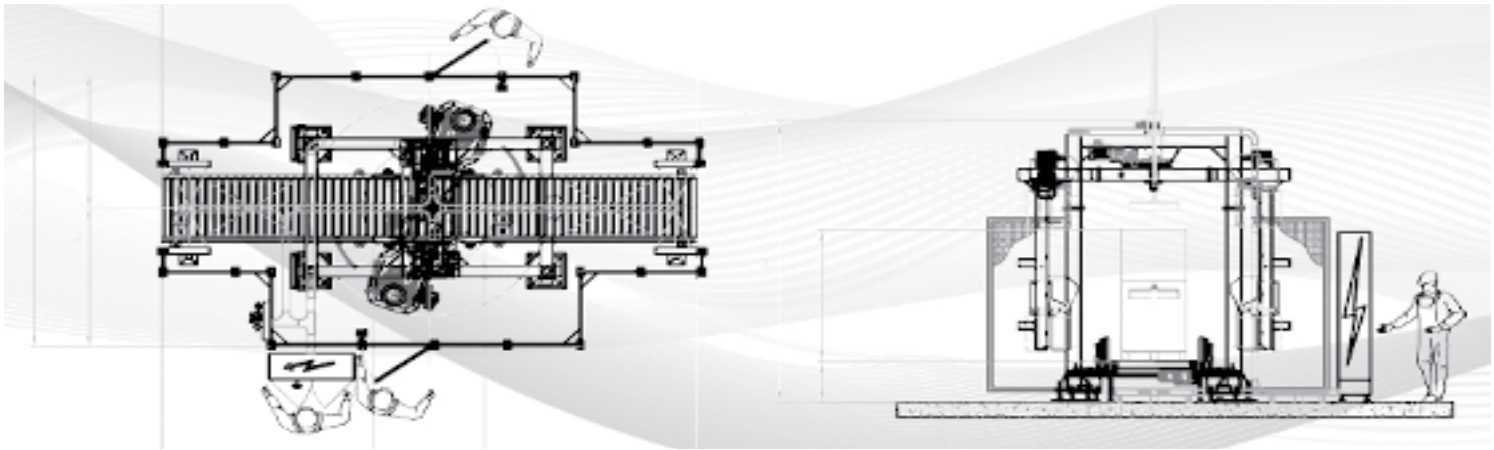
CARATTERISTICHE ELETTRICHE STANDARD/STANDARD ELECTRICAL FEATURES		
Protezione-protection		IP54
Tensione alimentazione power supply voltage	v	380 - 400 - 415 ± 5 %
Frequenza alimentazione Power supply frequency	hz	50
Potenza installata-power installed	kw	13

CARATTERISTICHE PNEUMATICHE STANDARD/STANDARD PNEUMATIC FEATURES		
Pressione aria compressa-air pressure	bar	6
Consumo d'aria-air consumption	NI/min	400

CARATTERISTICHE BOBINA/REEL FEATURES		
Altezza bobina-reel height	mm-inches	500 - 750(optimal) 20 - 30(optimal)
max diametro bobina max reel diameter	mm inches	250 - 380(optimal) 10 - 15.2(optimal)

Altezza cartone bobina Cardboard reel height	mm inches	510 20.4
Spessore film consigliato/lavorabile Flim thickness recommended/workable	µm	17 - 23 / 12 - 30
Lato collante-adhesiva side		interno-internal
Spessore film TOP-TOP Flim thickness	µm	

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## DIMENSIONS

CARATTERISTICHE ELETTRICHE STANDARD/ STANDARD ELECTRICAL FEATURES	
STD Min pallet dimensions	600 x 800 mm
STD Max pallet dimensions	800 x 1200 mm
STD Pallet Height	2000 mm
Possibility of stretch wrapping half and quarter pallet.	

## STRETCH-FILM USABLE

No. of reels	2
Film type	LLPD stretch
Height	500 mm
Max external diameter	250 mm
Min external diameter	76 mm
Thickness	23 µm
Weight	16,5 kg

## SUITABLE FOR THE FOLLOWING PRODUCTS

- Paper products / tissues etc
- Full/empty bottles
- Full/empty cans

## TECHNICAL DRAWINGS

- Technical drawings of this machine are available ON REQUEST