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Shrink Wrapping System with Auto Bottle Collating
Feeding Unit for 200ml PET bottle
(To pack matrix with film only- without bottom tray/pads)
Up to: 7packs per minute

PROJECT : SHRINK WRAPPING OF PRODUCTS WITHOUT TRAY
REQUIREMENT : AUTOMATIC SHRINK WRAPPING
FILM SPEC : To be decided after the receipt of samples
SPEED : up to 7ppm for (6x4)



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PROPOSED SYSTEM

AUTO SHRINK WRAPPER

The SHRINK WRAPPING MACHINE is an automatic machine capable of shrink wrapping various products in the required format (6X4) without tray. The Web Sealer consists of following equipment's & assemblies:

In feed Conveyor: This consists of 2mtr long conveyor with multiple tracks which will collate the bottle to all the tracks & take it further to the pusher assembly.

Pusher Assembly: This consists of a pneumatic cylinder equipped with a Pusher Unit. Its function is to push the matrix to the Web Sealer Unit for wrapping and sealing. The product to be shrink wrapped is manually loaded on the Pusher Assembly Table for the operation.

Roll Loading Assembly: There are 2 Roll loading assemblies located on top and bottom of the Web Sealer Unit. The film rolls are mounted on these assemblies. The film feeding is motorized and controlled by time delay which is settable.

Web Feeding Idler/Roller Assembly: The roll web passé thru couple of idler/roller assemblies. These idlers enable in balancing the web tension when the film is feed for wrapping and sealing.

Sealer Assembly: This is a pneumatic actuated cut & seal system which gets actuated by a signal through a Reed Switch. It is driven by a Air Cylinder for fast & accurate cut & seal.

Pack Holding Unit: While the matrix is wrapped and sealed, it is positively gripped by a 'Pack Holding Unit'. This is actuated by an air cylinder provided with a holding plate.

Shrink Tunnel (1no.): This is a hot air tunnel fitted with finned air heaters and blowers. The blowers are provided with Variable Frequency Drive to enable to control the flow of Hot Air inside the tunnel. The tunnel is of 1.5mtrs in length.

Conveyor System: This is a normal SS Wire Mesh Belt Conveyor – 4.2Mtr long, duly fitted on angle/tube structured frames. Variable Frequency Drive is provided to control the belt speed.

Cooling Zone: A fan is provided at the exit of the Shrink Tunnel to cool down the shrink packs.

Product Loading	: In feed conveyor
Construction	: MS Construction
Shrink Tunnel	: MS Construction – 1.5Mtrs
Tunnel Window Size	: 700mm W x 500mm H
Tunnel Conveyor Assy.	: 4.2mtrs Long - SS Wire Mesh Belt & with VFD
Controls	: Programmable Logics
Output	: 7packs per min (for Bottles loaded without Tray in 6x4 matrixes)
Power Consumption	: 26KW
Compressed Air	: 80 PSI @ 6Kg/sq cm
Roller Conveyor	: 1mtr long

Trail material (bottles & film roll to be arranged by the party)