Requirements and Solutions

Fully automatic wrap-around shrink packer for producing cartons, film-wrapped trays, and tray packs. The modular Advanced series from KHS Innopack Kisters offers economical, field-proven packing technology coupled with the highest standards in maximum flexibility. Process and function modules can be used to adapt the machine to meet specific application requirements at all times. Whether cartons are required on one day and a tray and/or film-wrapped tray application the next, whether higher capacity, other formats, or automated format changing are needed, the existing packing machine can always be easily and effortlessly extended. Be it a matter of packing pre-packed clusters, bulk products, items with various diameters and heights, or various formations in cartons, on trays wrapped in film or just in trays – everything is doable with the Advanced series. A return on investment is possible after only a short operating period thanks to the low cost of maintenance.

Key Features

· Future-safe construction based on the modular design of various functions
· Perfected machine functions and high quality standards
· Machine availability of up to 98.5% over a period of many years
· Reliable operation by using cutting-edge servo technology
· Ease of operation thanks to intuitive operator prompting and color graphics
· Optimum access through swing-up, large-size safety doors
· Exact and tight folding of blanks ensures high pack stability
· Application-oriented air control inside the shrink tunnel guarantees excellent shrinking quality
· Simple and fast format changing
· High-tech film cutting and feeding system suitable for processing very thin shrink film

Standard Equipment

· Product feed with integrated container infeed and automatic lane distribution
· Large-size, swing-up, safety doors over the entire length of the machine
· Blanks magazine with extendable capacity
· Ergonomic, horizontal blanks loading
· Automatic format adjustment in the direction of travel through format selection on the operator panel. Settings across the direction of travel and height adjustment made using spindles
· High-capacity grouping station with 1–4 servo drives, depending on the task definition
· Formatting and folding processes are gentle to the product
· Speed and application-orientated glue application
· Precision film cutting and conveying facilities
· Two film mandrels with weld-on mechanism and seal-on assist
· Length of shrink tunnel adapted to the machine capacity

Advantages

· Consistent use of modular design guarantees flexibility for changing packaging requirements
· Excellent packing quality thanks to product-optimized shrink technology
· Perfected machine functions and high quality standards ensure a machine availability of up to 98.5% over a period of many years
· Hygienic design for the simplest possible machine cleaning
· Fast and straightforward format changeover without additional tools. Optionally available with electronic operator prompting and with AccuDrive in the maximum configuration
· Optimum access through easy-swing-up safety doors
· Large touch-sensitive control panel with clearly arranged information in almost all international languages. Intuitive operator prompting using colored graphical symbols in the machine diagram and flashing indicator lights in the controls.

· Pressureless, gentle product feed of bulk or pre-packed products
· Very high positioning accuracy when processing printed film (up to +/- 3 mm)
· Siemens or Allen Bradley control equipment ensures optimum availability of spare parts and service in addition to easy integration into customer-provided systems
· Fully automatic belt control for long conveyor belt service life
· Low spare part requirements (< 2.5% of the machine price possible per year)
· Extremely exact gluing system positioning operation (minimum glue consumption)
· Exact unfolding of blanks around product groups with 45° and 90° corners
· Variable machine speeds for efficient adaptation to the line capacity

Service

· Worldwide service and fast supply of spare parts
· Project planning
· Conversion, expansion, and modernization
· ReDiS remote maintenance interface

Options

· Asymmetric blank and gable-style carton processing
· Glass and free gift inserter
· Tray and carton coding
· Partition inserter
· Simplified changeover of infeed guides using a changing frame
· Blanks capacity extendable to over 1,000 blanks
· End-of-reel detection for minimum film waste
· Gas-heated Eco shrink tunnel to reduce energy costs by up to 50% and CO_2 emission by up to 60%
· Film perforating systems
· Automatic film splicing

Technical Data

Machine capacity: up to 100 cycles/min
Number of lanes: 1
Container dimensions, diameters: min. 48 mm, max. 120 mm
Heights: min. 90 mm, max. 375 mm
Pack dimensions in the direction of travel. Length: min. 160 mm, max. 550 mm
Pack dimensions across the direction of travel. Length: min. 115 mm, max. 600 mm
Blank dimensions (including tray edge). Length: min. 280 mm, max. 720 mm
Width: min. 280 mm, max. 1,300 mm; tray 1,000 mm
Blank capacity: up to 1,000 items (B-flute)
Film sizes. Width: max. 950 mm (including spreader)
Length: min. 350 mm, max. 1,300 mm
Thickness: min. 35 my, max. 80 my
Film reel dimensions. Diameter: max. 550 mm
Weight: max. 130 kg
Machine dimensions. Length: 22,255 mm to 27,375 mm (type-dependent)
Width/Height: 2,090 mm/2,355 mm
Weight: 13,950 kg to 19,800 kg

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