



Requirements and solutions

Fully automatic tray shrink packer for producing trays, film-wrapped trays, film-wrapped pads and film only packs. The modular series "Advanced" from KHS Innopack Kisters® offers economical, field-proven packaging technology with maximum flexibility and of the highest standard. Process and function modules enable the machine to be adapted to meet specific application requirements at all times. Whether shrink packing today or a tray application tomorrow, a higher capacity, other formats, or automated format changing, the existing packing machine can always be extended easily and effortlessly. Be it a matter of packing pre-packed clusters, bulk products, various diameters and heights, or various formations on trays, on trays wrapped in film, pads wrapped in film or just film only – all are doable with the Advanced series. A return on investment is possible after only a short operating period thanks to low spare part consumption and low cost of maintenance.

Key features

- Future-safe construction based on modular design of various functions
- 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
- ECO shrink tunnel (optional) with gas porous combustion technology without additional air supply and exhaust systems to reduce energy costs and CO2 emissions
- 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 dosing belt control and automatic lane distribution
- Machine frame process module layout depending on the capacity and task definition
- Large-size, swing-up, safety doors over the entire length of the machine
- Blanks magazine capacity for up to 700 blanks
- Rotating blanks unscrambler
- Adjustable blanks transport
- Servo-driven grouping station and gentle product handling during formatting
- Adjustable folding and application station
- Speed-adapted glue application
- Film cutting and conveying facility
- Two film mandrels and manual weld-on mechanism
- Length of shrink tunnel adapted to the machine capacity





Benefits

- Consistent use of modular design guarantees flexibility for changing packaging requirements
- Excellent packing quality thanks to product-optimized shrink technology
- Fully developed machine functions and high quality standards ensure a machine availability of up to 98.5% over a period of many years
- Hygienic design for 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 national 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. Interlocking guide rails for optimum product control
- Reliable operation by using the latest in Bosch-Rexroth servo technology with decentralized IndraDrive MI drives
- 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)
- Precise hot melt positioning system (minimum glue consumption)
- Accurate and tight folding of blanks around the product groups with 45° and 90° corners
- Variable machine speed 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

- U-board and asymmetric blank processing
- End-of-reel detection for minimum film waste
- Operator guided format change-over
- Integrated Contistacker
- Gas-heated ECO shrink tunnel to reduce energy costs by up to 50% and CO2 emission by up to 60%
- Leaflet inserter (also multiple lanes)
- Film perforation systems
- Tray coding
- TPFO module: tray, pad, and film only
- Automatic film splicing
- Partition inserter

Technical Data

- Machine capacity:** up to 120 cycles/min
- Number of lanes:** up to 2 (tray processing)
- Container size:** min. 48 mm, max. 120 mm
- height:** min. 58 mm, max. 375 mm
- Pack dimensions machine direction:** min. 110 mm, max. 410 mm
- Pack dimensions cross machine direction:** min. 165 mm, max. 790 mm
- Blank dimensions (incl. tray wall), m. d.:** min. 170 mm, max. 510 mm
- Blank dimensions (incl. tray wall), c. m. d.:** min. 225 mm, max. 850 mm
- Blank capacity:** up to 1,200 (B-flute)
- Film width:** max. 950 mm (film spreading included)
- Film length:** min. 350 mm, max. 1,300 mm
- Film thickness:** min. 35 µm, max. 80 µm
- Film reel diameter:** max. 550 mm
- Film reel weight:** max. 130 kg
- Machine length:** 18,680 mm to 23,980 mm (type-dependent)
- Machine width/height:** 2,090 mm/2,355 mm
- Machine weight:** 15,000 kg to 18,000 kg

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