

MultiCo

Flexible conveyor for all pack types



The achiever among conveyors



The MultiCo pack conveyor, an expert example of how to optimally link machines, proves itself to be flexible as regards the handling of different pack types and intelligent in the control of the product flow. The continuous pack flow features a sufficiently high speed and enough buffer distance which is compulsory in each filling line.

Gentle product handling and low-noise operation, as well as the low energy consumption, make the MultiCo a reliable partner for pack conveyance.

At a glance

- Processing of different packs such as cartons, trays, clusters, shrink packs, LitePac Top and plastic crates
- Flexible line output with frequency-controlled drives and highly precise sensors as well as intelligent control of the pack flow
- Wide range of conveyor and rejection unit variants



Technical details



Design features

- Stable stainless steel design with a panel height of 200 mm
- Height-adjustable conveyor supports
- Open design for the optimum removal of glass fragments and dirt
- Use of a wide variety of stainless steel, plastic or roller chains possible
- Glide strips made of ultra-high molecular weight PE
- Curves in Magnetflex design
- Stainless steel support spindles with plastic foot pads

Additional equipment

- Use of commercial shaft-mounted gears
- Return shafts on bearings
- Split drive and return sprockets
- Drip pans
- Lubrication-free flat-top chain



The MultiCo ensures gentle conveyance of most varying types of packs.

Assemblies

Conveyors



Flush-grid belt conveyor

- Suitable for all non-returnable packs
- Widths: 170 to 1,870 mm, in sections of 170 mm each
- Return section with 50 mm diameter at transfer area for 1 inch chains or with 22 mm diameter for 0.5 inch chains
- Chain capable of bearing strain in cross direction, no chain drifting possible
- Suitable for reversing operation
- Rubber-coated design:
 - Ascending and descending sections with slope of up to 20 degrees possible
 - Increased tensile strength when compared to steel chains
 - Suitable for standard conveyor frames
 - Can be used as stopping and spacing conveyor



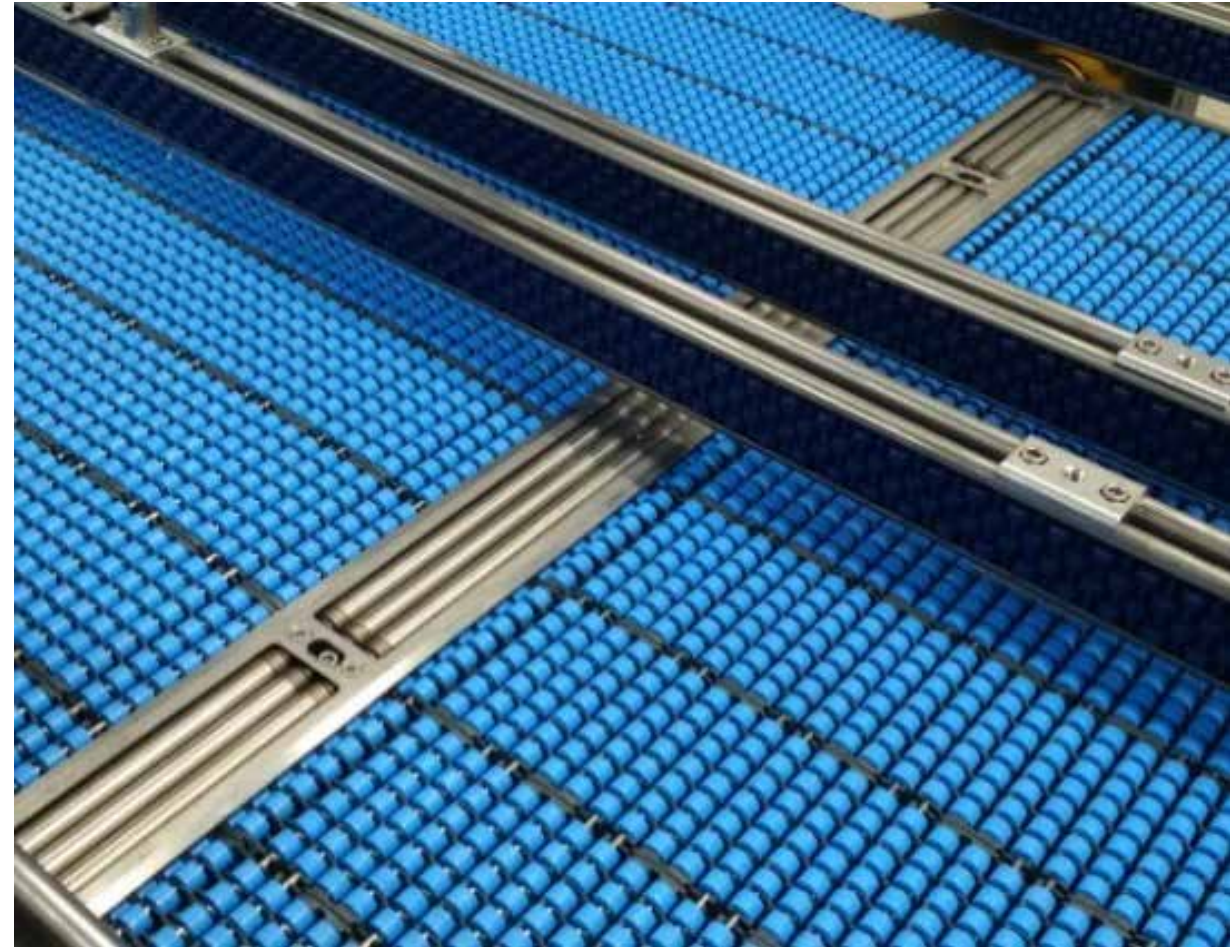
Assemblies

Conveyors



Accumulation roller conveyor

- Roller chain with low back-up pressure
- Single- or multi-lane design
- Dry-running of chain on low-friction and low-wear plastic rails
- Solid, separable chain rollers and return sprockets made of plastic
- Completely made of stainless steel with a side panel height of 200 mm and sturdy supporting structure
- Transfer rollers for smooth transport
- Low-noise chain return via special sliding block
- Increased degree of safety (finger-safe) due to the use of Krones Safetec roller flush-grid belt conveyor
- Energy-saving due to reduced weight



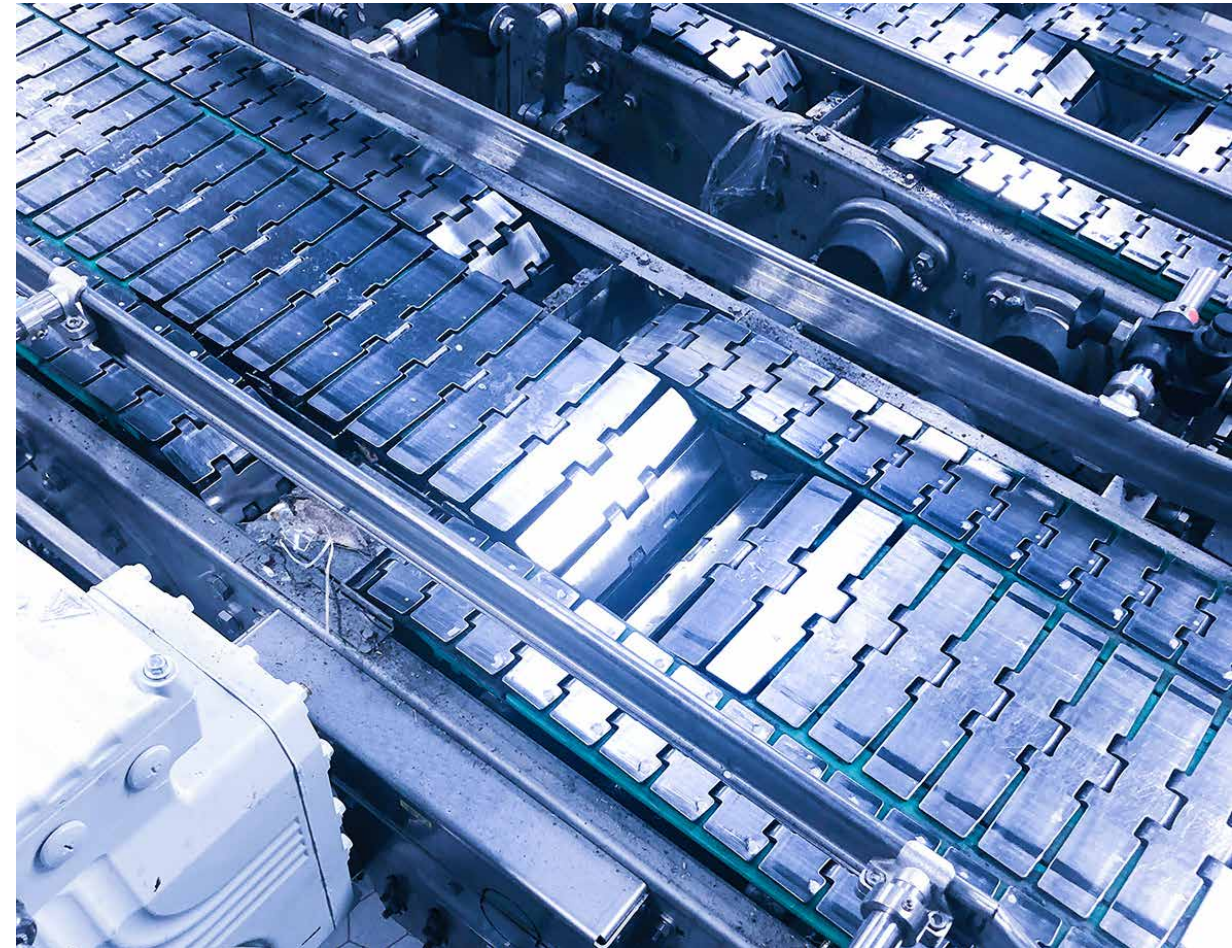
Assemblies

Conveyors



Steel chain conveyor

- Stainless steel 7.5 inch flat-top chain
- 1-lane or multi-lane design
- Operation with conveyor lubrication
- Drip pans at crossings and passageways
- Solid, separable chain rollers and return sprockets made of plastic
- Completely made of stainless steel with a side panel height of 200 mm and sturdy supporting structure
- Chain runs on low-friction and low-wear plastic rails
- Low-noise chain return via rubber rollers with a speed as of 0.6 m/s



Assemblies

Conveyors



Roller conveyors

- Different types of rollers can be used, for example stainless steel, galvanised, rubber-coated or back-up rollers
- Pitch of 57.15 mm or 76.2 mm
- Available widths from 300 mm to 1,745 mm
- Completely made of stainless steel with a side panel height of 200 mm and sturdy supporting structure
- Driven by means of individual chains, and double-sprocket wheels from roller to roller
- Guards protecting sprockets and chains from dirt and unintentional contact



Assemblies

Turning



Turning unit with stopping face

Field of application: Layer formation in front of palletiser or layer separation after the depalletiser for plastic crates and cartons

- Output: 4,000 packs per hour
- Gentle turning and deceleration of packs with rubber-coated stopping face
- Individually adjustable stopping face



Hook turning unit

Field of application: Layer formation in front of palletiser for plastic crates and cartons

- Output: Up to 4,000 packs per hour
- Pneumatic control
- Turning unit adjustable via throttle valve
- Malfunction monitoring with P.E. sensors



Assemblies

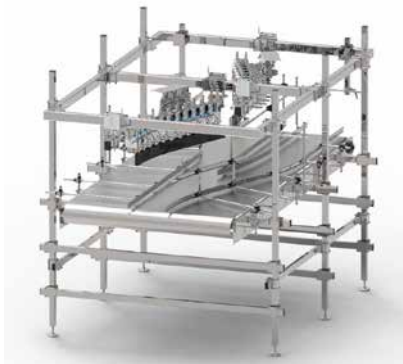
Rejection and distribution



Segment rejection and distribution unit

Field of application: Rejection and distribution of plastic crates and cartons

- Output: Up to 7,200 packs per hour
- Distribution to up to three lanes possible
- No shock impulse: Therefore particularly suited for packs with a low weight or large length-to-width ratio
- Rejection is either parallel or at an angle
- Designed for MultiCo



Variopush

Field of application: Rejection and distribution of plastic crates and cartons

- Output: Up to 4,000 packs per hour
- Servo-controlled pack pusher
- Uniform speed for full, partially filled and empty packs
- Parallel rejection or rejection at right angle
- Installation possible on any conveyor



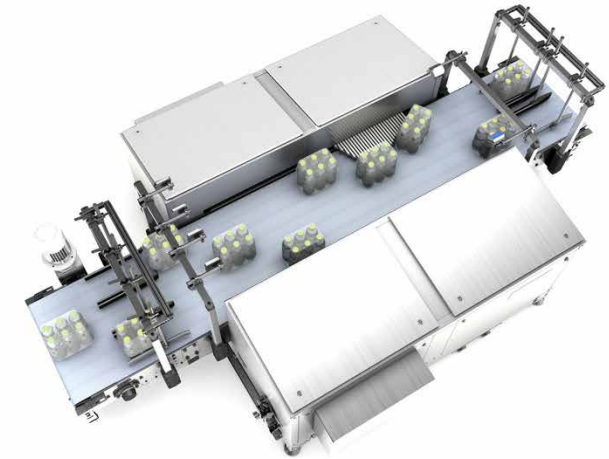
Assemblies

Distribution systems



Varioglide linear rejection unit

- Field of application: Distribution of packs from one to three lanes or from two lanes to up to six lanes
- Suitable for high output ranges
- Simple and stable construction and ease of maintainability
- Can be combined with different chain tables



MultiDivider line distributor

- Field of application: Distribution of packs from one to two or multiple lanes
- Effective widths up to 1,750 mm possible
- Permanent lubrication of loop chain via permanent greasers
- Several independent carrier plate systems possible
- High security through all-around guarding



Assemblies

Rails



Manually adjustable rails

- Universally adjustable height and width
- Easy, quick, and precise handling
- Multi-lane guide system possible
- Easy reproducibility of individual adjustments
- Adjustment aid via colour coding possible for high numbers of packs
- On ascending conveyors, down-holding units can be used for crates
- Roller guide rail for shrink packs
- Stainless steel profile for plastic crates and cartons
- Plastic section for plastic crates to go easy on logos



Assemblies

Rails



Motorised, adjustable rails

- Precise and individual adjustment for any pack
- Easy reproducibility of individual adjustments
- Independent adjustment of outer and inner rails
- For non-returnable packs: Back-up-free curves without rails; therefore no time-consuming adjustment work required
- Rail adjustment also suitable for areas that are difficult to access
- Use of standard gears and standard bearings, therefore simple storing
- Optional manual adjustment via crank



MultiCo in every-day operation



Operation

- Convenient operation by means of touch-screen with simple menu guidance and clear graphics
- Diagnostics system for fault localisation using a line overview as well as drawings, pictures and help texts
- Assistant for troubleshooting
- Remote maintenance available using the remote service system
- Control station function available as an option

Controller

- Accumulation function with filling of conveyors and closing of gaps between the packs to avoid downtimes in the line.
- Use of sensors for the detection of pressure build-up in the pack flow
- Triggers a back-up pressure cut-off system at the feeding machine if the buffer conveyor is full
- Motors and frequency inverters can be individually controlled and/or adjusted on the touch-screen operator interface; the frequency inverters are controlled via Profibus or Ethernet

Benefits to you



Quick installation and commissioning

The major part of the components is already pre-assembled at the factory. This ensures the conveyor is ready for operation quickly at the customer site in accordance with the "plug-and-play" principle.

Ease of operation

The complete system ensures ease of operation: Directing the MultiCo is easy from a touch-screen with menu guidance and clear overall visualisation.

Short change-over times

MultiCo is flexible and allows fast change-over to other pack types with just a few simple steps.

Long service life

The sturdy basic construction ensures the long service life and problem-free operation of the conveyor.



Requesting a new machine

You can easily send a request for a non-binding quotation in our Krones.shop.



Everything from a single source



KIC Krones cleaning agents make your machine shine

Only if the production environment is immaculate, can your product be brilliant. KIC Krones provides you with the optimum cleaning agents and disinfectants for each individual production step.

KIC Krones lubricants for each production step

Whether for gears, chains or central lubrication systems – our greases and oils are true all-round talents. They can reach every lubrication point, protect your line and ensure gentle treatment for your products thanks to their food-grade quality.

Krones Lifecycle Service – Partner for Performance

It goes without saying that also after the purchase of new machines, Krones takes care of your lines: The Krones LCS experts are always there to help you reaching your goals and turn your wishes into optimal LCS solutions.



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