

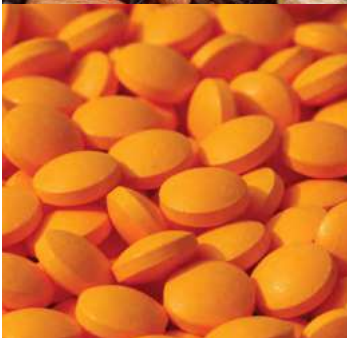
SYSPAL™

STAINLESS STEEL HYGIENIC EQUIPMENT

MECHANICAL HANDLING

The UK's leading manufacturer of stainless steel mechanical handling equipment





SYSPAL Mechanical Handling Product Range

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SINGLE BIN SOLUTION

06/07

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SYSPAL ESSENTIALS

Single Bin Solution

The full production solution for 200L and 300L Eurobins



The SYSPAL Single Bin Solution offers the complete handling solution for processing food and food ingredients, utilising industry standard DIN 9797 Eurobins with the minimum amount of product transfer and manual handling.

Reduced Manual Handling:

From the initial batch weighing of ingredients, WIP storage, product mixing and finally tipping product onto process lines can all be done utilising a single DIN 9797 Eurobin. This greatly reduces the number of product transfer points and aids employee safety, helping prevent musculoskeletal injuries associated with manual handling.

Increased Productivity:

Changeover time between product batches is greatly reduced and with minimal handling transfers and only a single bin to clean at the end of the operation, this solution allows more time to be spent on manufacturing.

Hygiene:

Stainless steel hygienic design specifically for the food industry environment ensures all equipment can be washed down quickly and effectively.

Food Safety:

The complete process offers significant benefit to food safety standards by reducing product exposure and possible cross-contamination associated with multiple product transfers.

Improved Product Quality & Reduced Waste:

Streamlining product handling utilising the Single Bin Solution range of equipment can offer significant reduction in product damage and increase product yield lost through repeated transfer.

Single Bin Solution - Production Flow



WEIGH

SYSPAL's Eurobin Weigh Scales are designed to eliminate the need for floor pits and ramps. Providing the most hygienic and operator safe weighing solution for the food manufacturing environment.

See page 6



STORE

A modular Eurobin racking system that offers increased storage capacity and improved batch control. Bespoke factory layouts can be easily managed. Compatible with SYSPAL's Eurobin stacker.

See page 19



MIX

Ideal for marinating, coating and infusing ingredients, Eurobin tumblers are designed to thoroughly mix ingredients without the use of mixing arms or paddles. This minimises the risk of product damage resulting in a high quality finished product.

See page 8-9



LIFT / TIP

Use lifters or tippers whilst lifting and emptying Eurobins to their desired location. This eliminates manual handling which increases efficiency and also reduces the risk of injury to staff.

See page 10-14

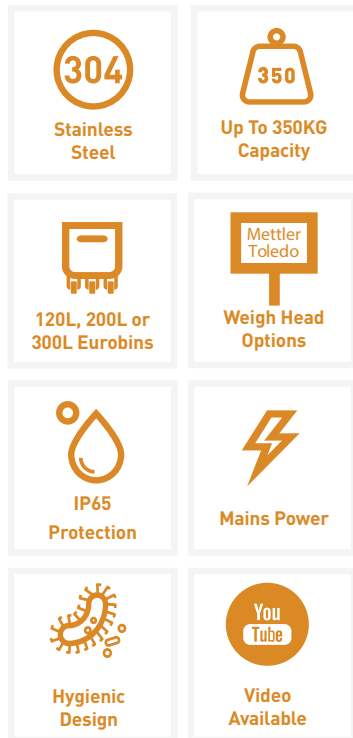


WASH

Allowing for 360° cleaning access, the SYSPAL wash frames reduce the risk of manual handling injuries and the risk of damage to both the Eurobin and the washroom floor, whilst improving throughput and hygienic practices.

See page 20

Eurobin Weigh Scales



WS3 Pneumatic 350kg capacity scale



WS3 Bespoke carriage scale



WS1 Manual 250kg capacity scale

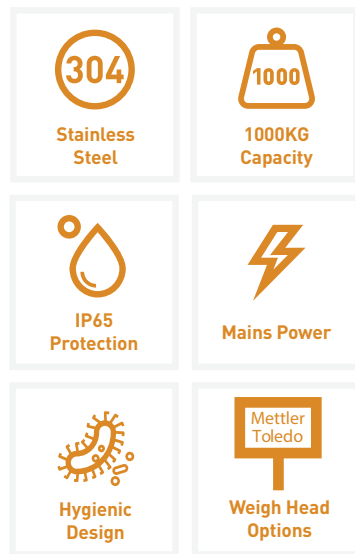


WS2 Manual 350kg capacity scale

The SYSPAL Eurobin Weigh Scale range has been designed to eliminate the requirement for floor pits and ramps, improving hygiene and safety within the food manufacturing environment, whilst maintaining the required high level of accuracy. Key features include:

- Mettler Toledo weigh head options allows stand alone or systems integrated functionality
- No ramps or floor pits required
- Accommodates full range of Eurobins and bespoke applications
- Freestanding design complete with adjustable feet for a quick install and relocation

Pallet & Dolav Weigh Scales



Dolav Weigh Scales



Pallet Weigh Scales

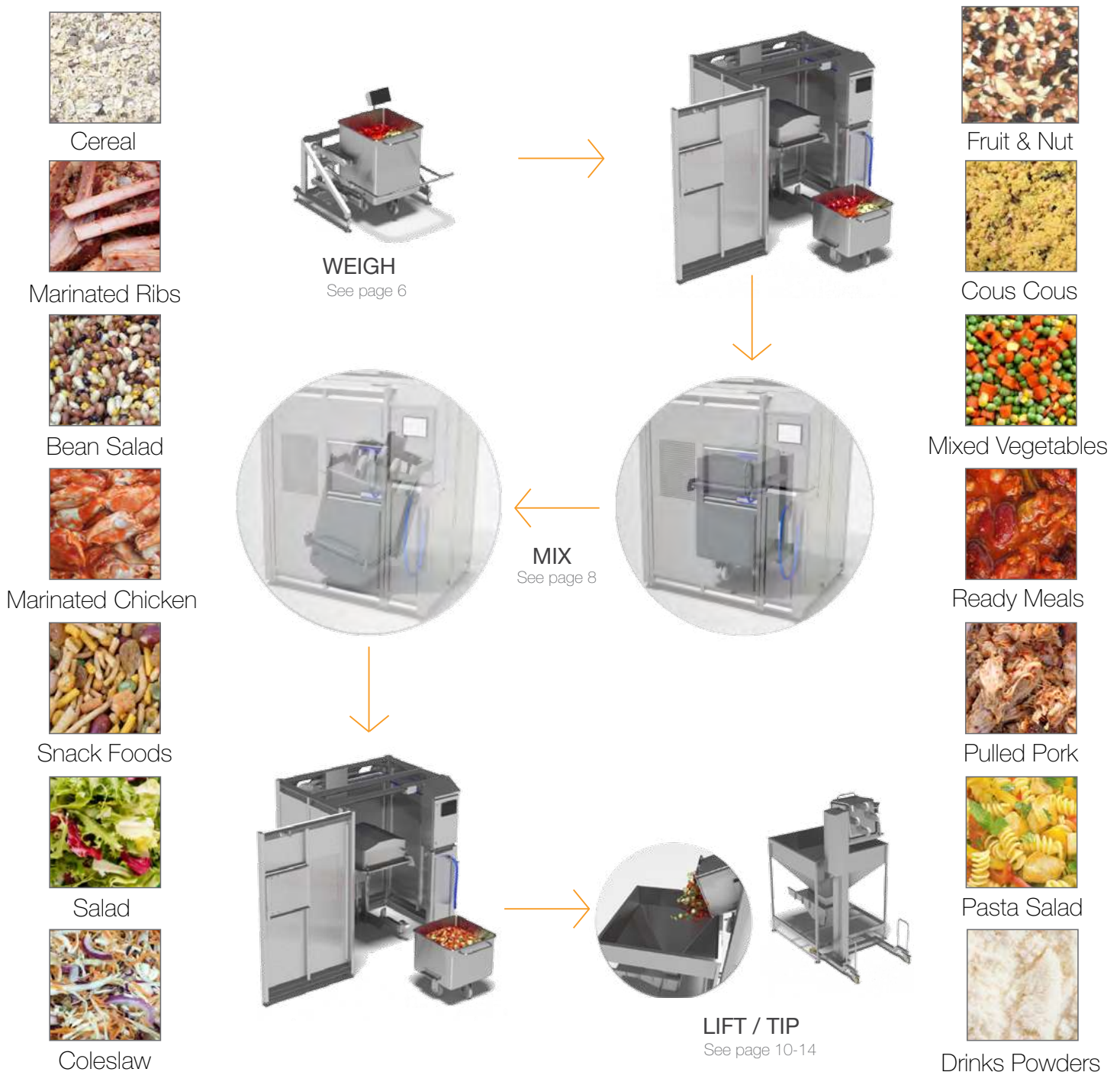
The SYSPAL Pallet and Dolav Weigh Scales have been designed to eliminate the requirement for floor pits and ramps, improving hygiene and safety within the food manufacturing environment, whilst maintaining the required high level of accuracy. Key features include:

- Mettler Toledo weigh head options allows stand alone or systems integrated functionality
- Freestanding design complete with adjustable feet for a quick install and relocation
- Accommodates dolavs, pallets & bespoke tanks
- No ramps or floor pits required

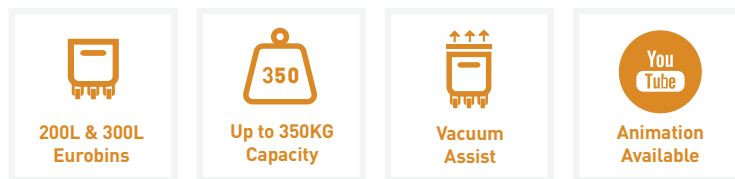
Eurobin Tumbler Range - Product Mixing

The SYSPAL Eurobin Tumblers offer high quality, consistent and safe mixing of food ingredients utilising industry standard DIN 9797 Eurobins. The unique method of mixing without the use of Z-blades or paddles eliminates 'dead spots' and ensures delicate products are mixed effectively with significant reduction in damage. Mixing within the Eurobin means that timely cleaning procedures are greatly reduced, making changeover between product batches quick and easy. Operators can pre-program cycle times, bi-directional rotation and speed control through the HMI recipe create and recall function ensuring optimum results, every time. The end results offer the highest levels of mix consistency and final product presentation.

Production Flow



High Capacity Eurobin Tumbler - TT2



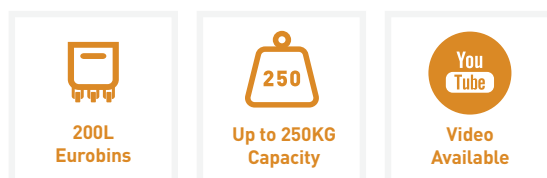
The High Capacity Eurobin Tumbler is designed to handle both 200L and 300L Eurobins with no additional set-up or change parts. Additional vacuum assist can be added to the mixing recipe to reduce marinating times.

Key features include:

- Accommodates DIN 9797 200L & 300L Eurobins
- Bi-directional mixing
- HMI multi programmable recipe system
- Safe maintenance and wash down programs
- Vacuum assist



Eurobin Tumbler - TT100



The Eurobin Tumbler is designed to handle 200L Eurobins. The unique angular bin rotation 'folds' the ingredients, producing a high quality homogeneous mix. This is ideal when handling difficult recipes with delicate ingredients that require minimal mixing.

Key features include:

- Accommodates DIN 9797 200L Eurobins
- Bi-directional mixing
- HMI multi programmable recipe system
- Safe maintenance and wash down program
- Unique cross corner rotation



Single Column Tipper

304

Stainless Steel

350

Up to 350KG Capacity



IP65 Protection



Animation Available



Chain Break Mechanism



Anti-fall chain break mechanism prevents the lift carriage falling in the event of a chain failure



Mechanical Bin Retention



Mechanical bin retention prevents the lift from operating if the Eurobin is not loaded correctly

Guard Options



Mobile with bump rail



Skeletal



Guarded

The SYSPAL Single Column Tipper has been designed with safety in mind in order to increase efficiency and reduce the risk of manual handling injuries. A range of carriage designs are available to lift and tip Eurobins, wheelie bins, bowls, vessels, tanks etc. Key features include:

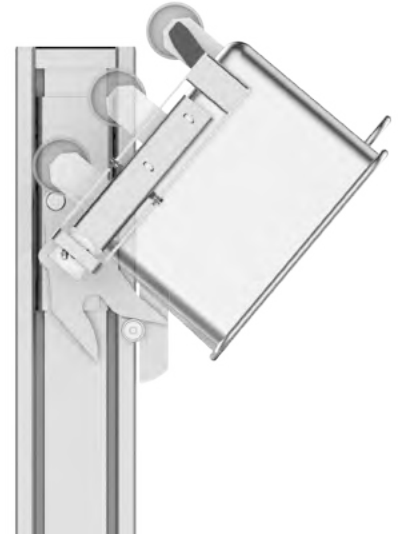
- Accommodates a full range of Eurobins and food industry containers
- Bolt down and mobile base options
- Bespoke transfer chutes available to suit specific applications
- A range of guarding and operator control options

Single Column Tipper - Tipping Options

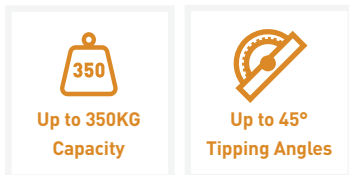
Roller



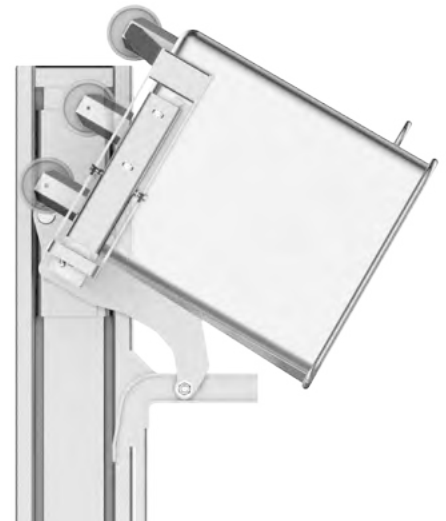
The tip roller design allows a quick bin rotation and an increased tip angle up to 55°. This assists in transfer of difficult or sticky product. Typical applications would be high viscosity liquids, dough and pastry products or prepared/IQF vegetables. Chute and guard options available.



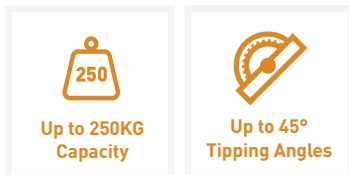
Curve



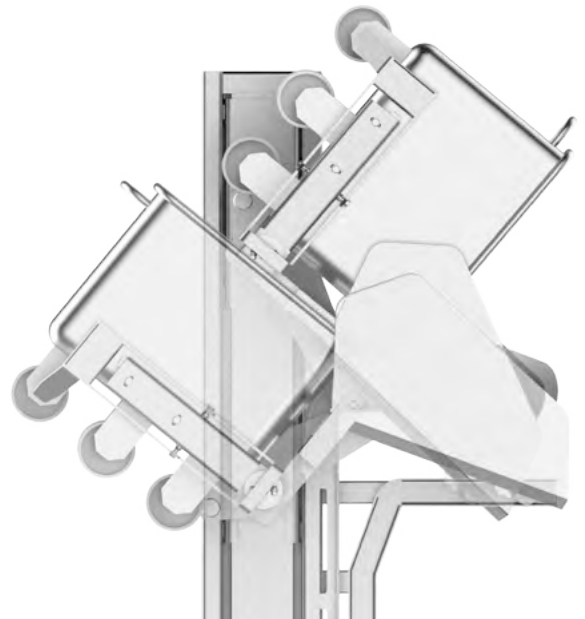
The tip curve design allows a more controlled tip function up to a tip angle of 45°. The low profile travel of the tip curve suits tight installations where height restrictions are a limiting factor. Typical applications would be low viscosity liquids, such as stocks, sauces or free flowing grains, powders etc. Chute and guard options available.



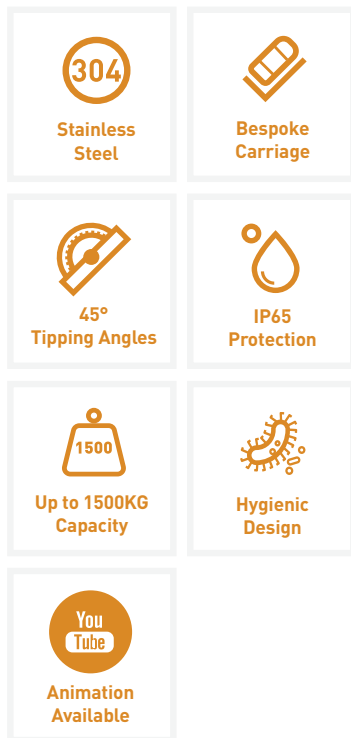
Track Chute



The combination of a tip curve function and additional track mounted chute maximizes product control when feeding cooking kettles or vessels for similar processes. The track chute raises and lowers with the carriage during lift operation and is positioned prior to the tipping of the bin. Chute and guard options available.



Double Column Tipper



Carriage Options



Bakery & Mixing Bowls

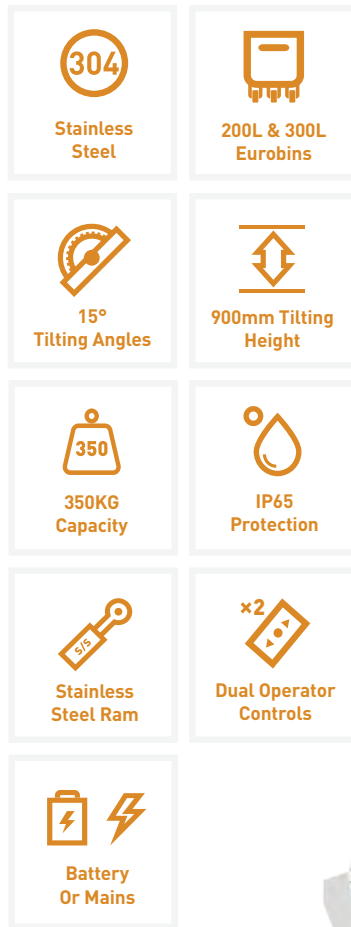


Dolavs, Tanks & Containers

A flexible design with bespoke tip heights, tip angles and production line integration options to meet individual requirements. The SYSPAL Double Column Tipper can handle up to 1500kg of product feeding high level hoppers, vibratory conveyors and other process equipment. Ideal for bulk feed handling and reducing the risk of musculoskeletal injuries associated with emptying dolavs, tanks, bowls etc. Key features include:

- Bespoke carriage designs to accommodate dolavs, bowls and tanks
- Interlocked guarding as standard
- Transfer chutes, carriage and tip heights designed to suit application
- Operator control functions and production line integration options available

Eurobin Tilter - HT1

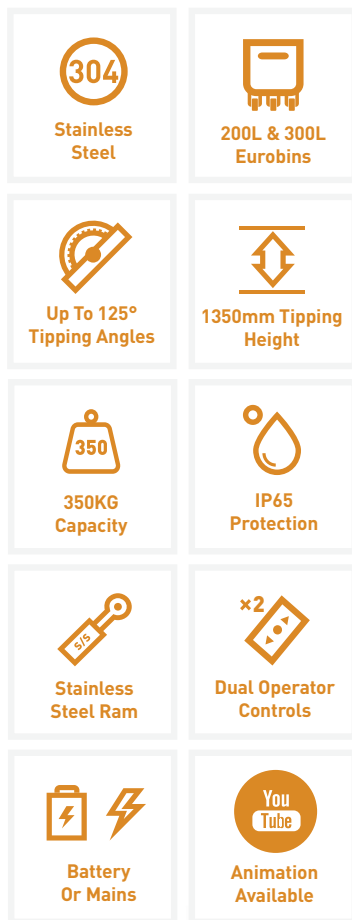


Eurobin Tilter feeding an Inclined Belt Conveyor

The SYSPAL Eurobin Tilter has been designed to tilt Eurobins to a safe working height for manual unloading. Designed for tilting with an additional 15 degrees past horizontal to ensure as much product is extracted as possible. This tilter increases efficiency and reduces operator bending fatigue. Key features include:

- Ergonomically designed to reduce musculoskeletal injuries associated with manual unloading
- Mobile design and hold to run operator controls on both sides offers maximum flexibility

Eurobin Tipper - HT2



The SYSPAL Eurobin Tipper has been designed to increase efficiency and reduce the amount of manual handling required to empty 200L and 300L Eurobins. Key features include:

- Accommodates full range of Eurobins and food industry containers
- Mobile design and hold to run operator controls on both sides offers maximum flexibility
- Bespoke transfer chutes available to suit specific applications
- Can be integrated with a range of feed and transfer tables

Barrel & Drum Tipper - HT2



Barrel & Drum Tipper tipping into a Eurobin

Carriage Options

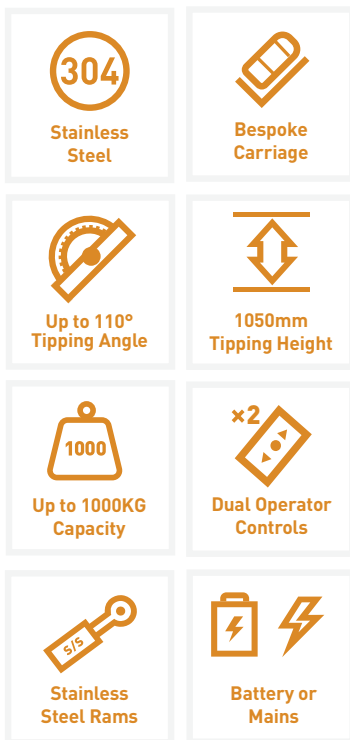


A range of drums, barrels and ingredient containers

The SYSPAL Barrel and Drum Tipper has been designed to increase efficiency and reduce the amount of manual handling required to empty barrels, drums and ingredient containers. Key features include:

- Accommodates drums, barrels, containers etc
- Option to accommodate multiple containers within one carriage
- Bespoke transfer chutes available to suit specific applications
- Mobile design and hold to run operator controls on both sides offers maximum flexibility

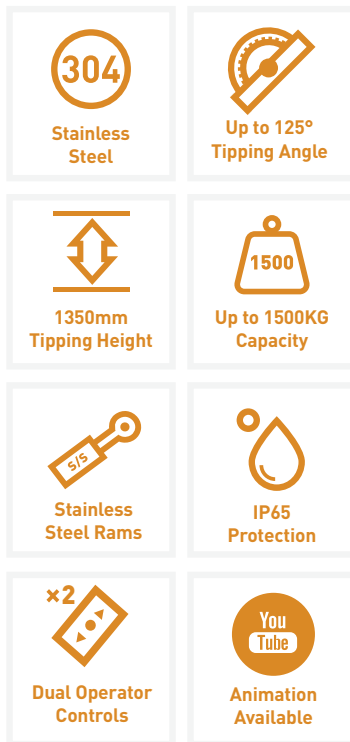
Dolav Tipper 1000 - HT3



The SYSPAL Dolav Tipper 1000 has been designed to handle up to 1000kg of product feeding workstations, vibratory conveyors and feed tables. Allowing increased efficiency and reduced risk of manual handling injuries associated with emptying dolavs, tanks, bowls etc. Key features include:

- Accommodates standard dolav containers and carriage options for other food industry containers
- Mobile design and hold to run operator controls on both sides offers maximum flexibility
- Bespoke transfer chutes available to suit specific applications
- Can be integrated with a range of feed and transfer tables

Dolav Tipper 1500 - HT4



Dolav Tipper with Eurobin Feed Hopper



Guarded Bakery Bowl Tipper with Eurobin Feed Hopper



Dolavs, Tanks & Containers

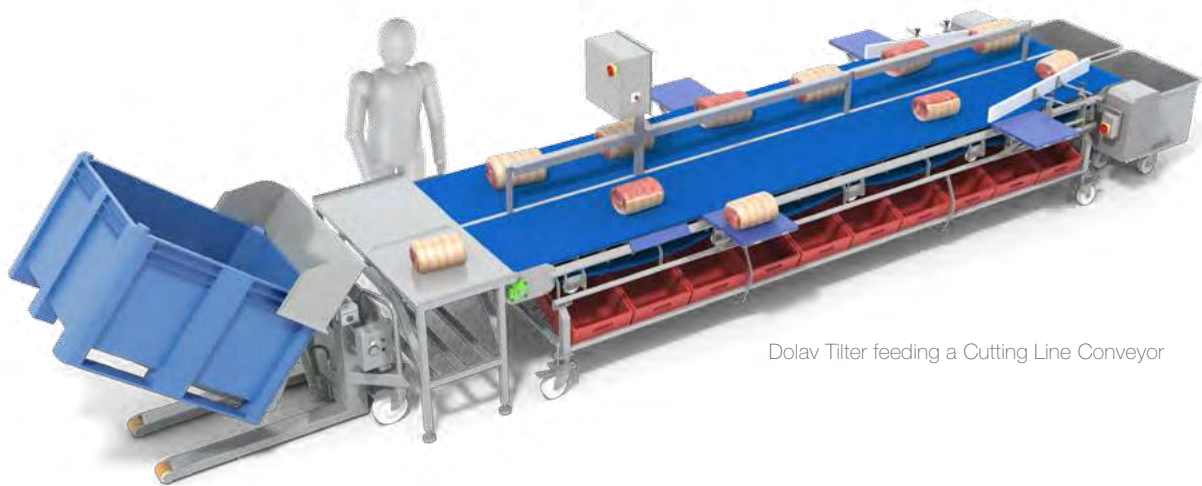
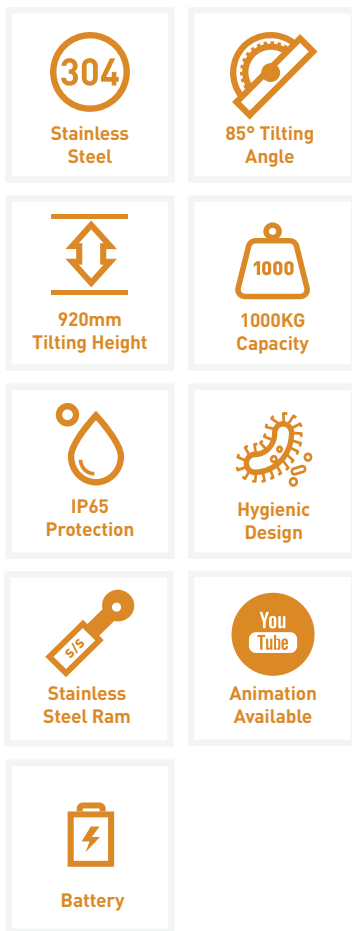


Bakery & Mixing Bowls

A flexible design with bespoke tip heights, tip angles and production line integration options to meet individual requirements. The SYSPAL Dolav Tipper 1500 can handle up to 1500kg of product feeding workstations, vibratory conveyors and feed tables. Ideal for increasing efficiency and reducing the risk of manual handling injuries associated with emptying dolavs, tanks, bowls etc. Key features include:

- Accommodates standard dolav containers and carriage options for other food industry containers
- Mobile design and hold to run operator controls on both sides offers maximum flexibility
- Bespoke transfer chutes available to suit specific applications
- Can be integrated with a range of feed and transfer tables
- Available in a range of tip heights and tip angles to suit individual applications

Dolav Tilter - HA400

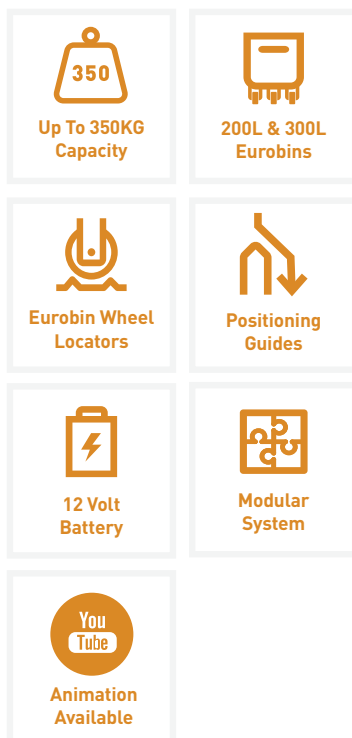


Dolav Tilter feeding a Cutting Line Conveyor

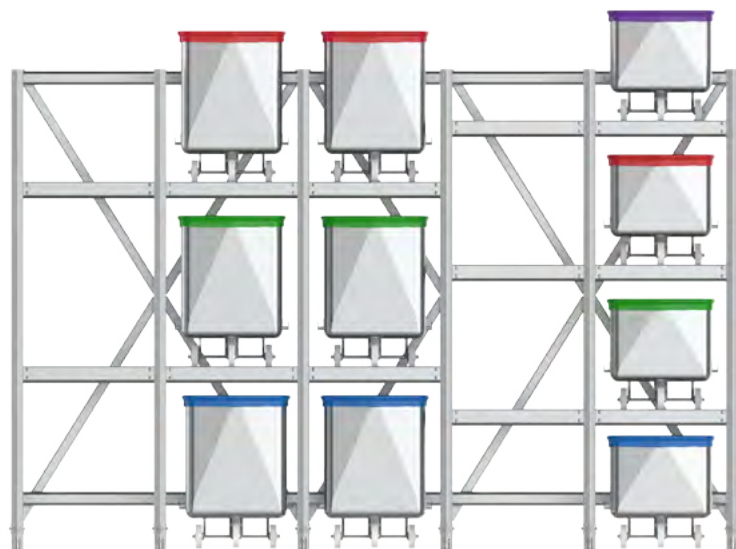
The SYSPAL Dolav Tilter has been designed to tilt dolavs to a safe working height for manual unloading. This system increases efficiency and reduces operator bending fatigue. Key features include:

- Mobile design and compact footprint maximises flexibility in the workplace
- Ergonomically designed to reduce musculoskeletal injuries associated with manual unloading

Eurobin Storage



Eurobin Stacker



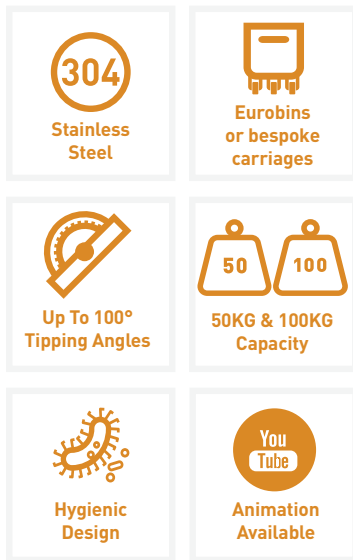
300L Eurobins - 3 bays high

200L Eurobins - 4 bays high

A modular Eurobin racking system that offers increased storage capacity and improved batch control. Bespoke factory layouts can be easily managed. The SYSPAL Eurobin Stacker allows for the safe lifting, manoeuvring and stacking of Eurobins in conjunction with the racking system. Key features include:

- True modular design allows maximum flexibility of Eurobin storage
- Improved batch control when using Eurobin disposable covers
- Stacker includes 12 volt battery and charger
- Bin location and retention system provides safe and secure freestanding storage
- Increased storage capacity using adjustable racking - create the storage you need

Container Wash Frame



Single Pneumatic Option



Manual



Double Pneumatic



Tank

Allowing for 360° cleaning and maintenance access, the SYSPAL Container Wash Frames reduce the risk of manual handling injuries and the risk of damage to both the Eurobin and the washroom floor, whilst improving throughput and hygienic practices. Manual and pneumatic options available. Pneumatically powered wash frames offer optimum safety in a wet washroom environment. Key features include:

- Bespoke carriage design to accommodate Eurobins, tanks, dolavs etc
- Single and double models available
- Hold to run pneumatics offer the safest operation in wet environments
- Full 360° access to the interior and exterior including the base and wheel arrangements

Heavy Duty Wash & Maintenance Frame

304

Stainless
Steel



Bespoke
Carriage



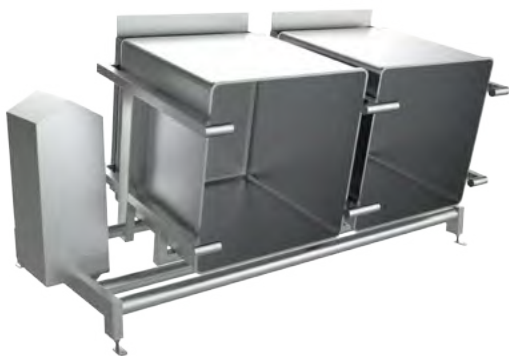
Up To 100°
Tipping Angles



Up To 500KG
Capacity



Hygienic
Design



Heavy Duty Direct Drive Wash
Frame With Tank



Heavy Duty Direct Drive Wash
Frame With Bowl

The SYSPAL Heavy Duty Wash and Maintenance Frames give 360° access to large tanks and mixing bowls for cleaning and safe maintenance access. Key features include:

- Bespoke carriage design to accommodate bakery mixing bowls, tanks, dolavs etc
- Full 360° access to the interior and exterior including the base and wheel arrangements
- Single and double models available

Goods Lift Range



The SYSPAL Goods Lift range offers a complete solution for efficient and safe travel of product between floors within the food production and hygienic warehousing environment. The freestanding structural design and lift carriage construction eliminates the requirement for civil works and floor pits. Each model is designed to suit the application taking into consideration: lift height, same side or opposing side transfer and the product range to be handled. Integrated full perimeter guard and interlocked access gates ensure the operator and working environment is always safe. Key features include:

- Designed to suit bespoke applications
- Freestanding bolt-down construction
- No requirement for floor pits or civil works
- Fully guarded with interlocked access at each level

Tray Lift

SYSPAL Tray Lifts are designed for quick transfer of product or ingredients in trays, buckets or various food industry containers between floors, onto mezzanines or equipment gantries within the production environment. This eliminates the risk of falls or trips when carrying goods on stairways. Combined with an ergonomic loading height, this tray lift is ideal for improving production efficiency and reducing manual handling risks.



Trolley Lift

SYSPAL Trolley Lifts cover a range of hygienic applications from film reel cages supplying busy end-of line packing halls, product trolleys between prep and ingredients areas and mobile containers or Eurobins onto mezzanines for storage or manufacturing. The freestanding structural design and lift carriage construction eliminates the requirement for civil works and floor pits. Multi-floor stops can be incorporated into the design.



Up to 300KG
Capacity

Goods Lift

SYSPAL Goods Lifts offer the flexibility for efficient and safe transfer of the widest range of equipment and products for the food manufacturing and hygienic warehousing environment. Offering a standard range of lift capacities up to 1500kg with bespoke platform sizes designed to cater for palletised goods, dolavs and pallet box containers, multiple trolleys, Eurobins and bespoke production equipment.

Freestanding structural design and lift carriage construction eliminates the requirement for civil works and low level ramp access means no unwanted floor pits. Bespoke operator controls and multi-floor stops can be incorporated into the design.



Up to 1500KG
Capacity



Multiples

High Speed Tipplers and Feed Systems



Salad



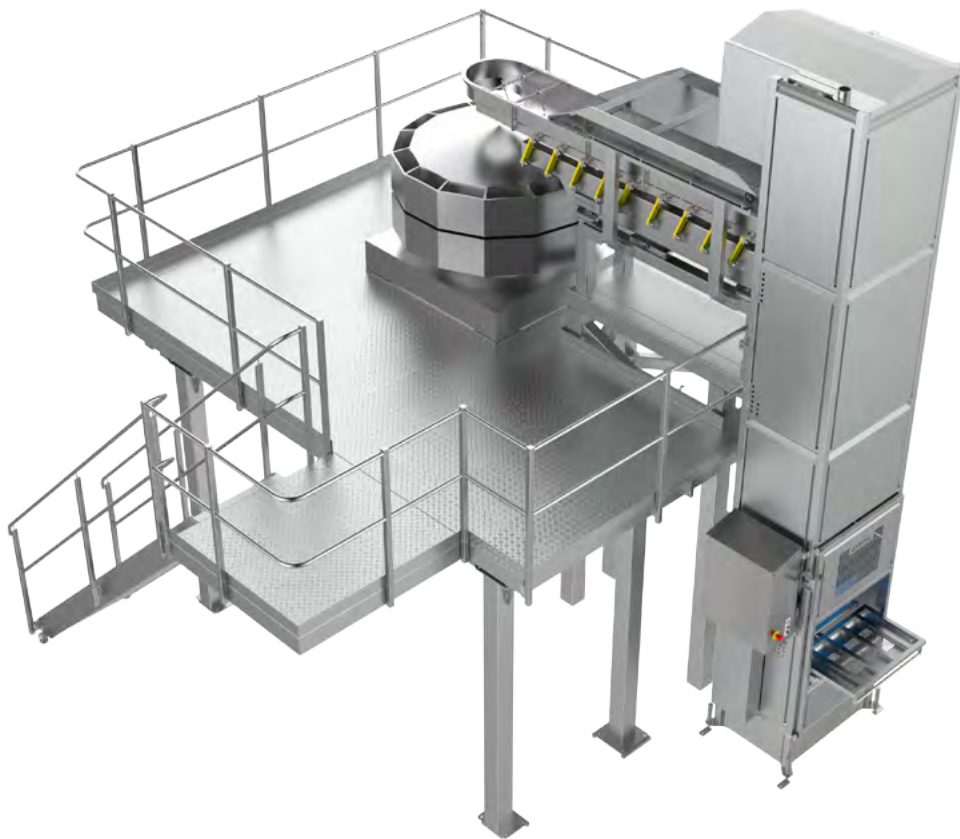
Cereal



Snacks



Confectionery



Proteins



Vegetables



Carbohydrates



Cheese

The SYSPAL Feed System range of equipment allows fast and efficient food product and ingredients transfer from low to high level and incorporates equipment such as vibratory conveyors and high speed tipplers. Typical feed system applications range from feeding weighing and bagging lines, auger depositors and product feed hoppers. SYSPAL feed systems allow for a fast, consistent and manageable production flow, allow bulk feed of product and control accumulation at low level where it's more easily managed.

Vibratory Conveyors

Electromagnetic vibratory conveyors are designed to provide bulk material handling for a variety of innovative processing functions with throughput rates up to several tonnes per hour. Customised to suit various requirements, including: grading, alignment, dewatering, spreading and regulating the feed to a multi-head weigher. Hygienic design to conform to requirements and simplify wash down. Variable frequency controller provides an ultra quiet conveyor with an amplitude range from 0-100% to provide a controlled feed.



- 304 / 316 stainless steel
- Low maintenance electromagnetic drive
- Length and width available to suit customer requirements
- Ultra-quiet operation



High Speed Fixed Bucket Tipper

Designed for in-line installation utilising SYSPAL's range of vibratory feed conveyors to control flow in and out of the tipper. Two stainless steel buckets are designed for accumulation, transfer and elevation of product to high level. The buckets are easily accessible at low level making wash down quick and simple.

- Up to 1.2m/sec lift speed
- Nominal capacity: 50kg
- Optional quick release bucket exchange for quick product changeover
- In-line operation



High Speed Tray Tipper

Product or ingredient trays can be manually loaded into the lift carriage by the operator. This allows batch production to be completed off-line and brought to the tipper from warehousing or WIP. The limited food contact surfaces with the equipment further reduces clean down time between product line change overs.

- Up to 1.2m/sec lift speed
- Nominal capacity: 50kg
- Interlocked safety switches on drop-down gates and light sensor preventing operation with tray out of position



High Speed Eurobin Tipper

Designed to allow bulk transfer in standard DIN 9797 Eurobins at a rate in excess of twice the standard operational lift speed. This is typically used in industries processing low bulk density product such as salads or snack foods.

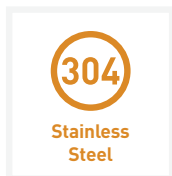
- Up to 0.5m/sec lifting speed
- Nominal capacity: Up To 100kg



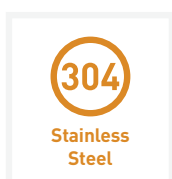
Conveyor Systems

Cantilevered PU Belt Conveyors

Hygienic design food grade belt conveyors available in a range of widths from 300 to 600mm and lengths to suit application. The innovative 2 leg design allows quick belt removal and clean down, improving hygiene and efficiency.



- Suitable for a variety of conveying applications
- Hygienic design
- Optional extras available i.e. side guides, under trays etc;
- Cantilever design for belt removal from side of conveyor
- Quick release end to assist belt removal
- Centre tracking for increased belt life
- Drum drive or external motor options
- Fixed or variable speed



Inclined Belt Conveyors

Suitable for incline and decline product applications, stand alone or integrated.

- Full industry range of hygienic belt types and sizes fitted to suit product
- Belts easily removed if required for intensive cleaning and maintenance
- Various belt support types available to suit duty and application
- Available to suit light, medium or heavy duty applications
- Drum drive or geared motor options

Rotary Turntables (Lazy Susans)

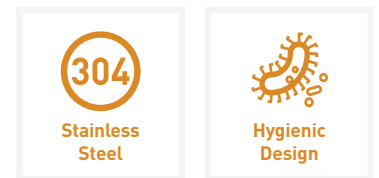
Rotary Turntables

Rotary turntables or lazy susans offer an ideal way to transfer or accumulate product to improve the efficiency of your production lines or packing stations. All SYSPAL rotary turntables comply with strict food hygiene regulations and are designed for easy wash down. Adjustable height function and a variable speed option are as standard. Available with optional extras including outer perimeter guard rails and diverter arms to facilitate feed to the next stage of production.

- Removable tops to aid cleaning and maintenance
- Unique friction drive system for safe operation
- Fixed or variable speed options
- 3 leg model available with stainless steel top only
- 4 leg model available with HDP and stainless steel tops
- Product guide rail and diverter options available
- Height adjustable 850mm +/- (up to 150mm)



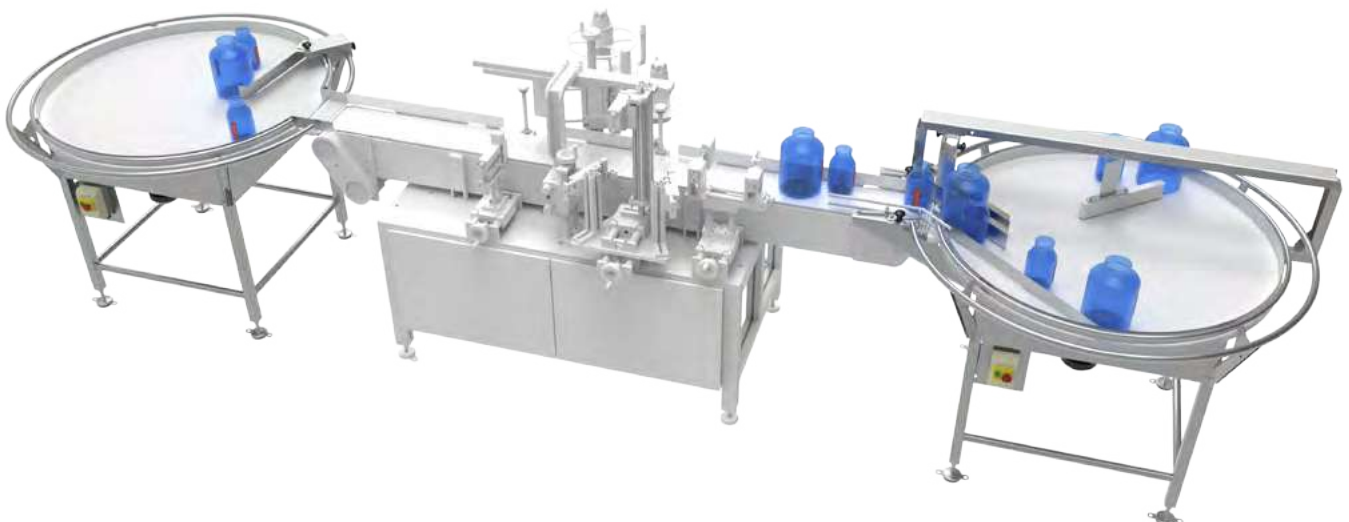
4 leg model



Rotary Turntable Projects

Speak to the Mechanical Handling team about utilising a rotary turntable (lazy susan) as a cost effective method of evenly distributing product to the out-feed of packaging or production lines. The rotary turntables can be supplied in various sizes, as a 3 or 4 leg model and with fixed or variable speed. The variable speed function allows for flexible control and the ability to suit the existing system or line operatives. Customising rotary turntables to meet your production needs can be done by adding optional features such as: fixed or rotating retaining guide rails, diverter arms, rail cut outs for in/out feed or a HDP top instead of stainless steel.

Our design team can interface the rotary turntables into an existing system or offer a total product handling solution package.



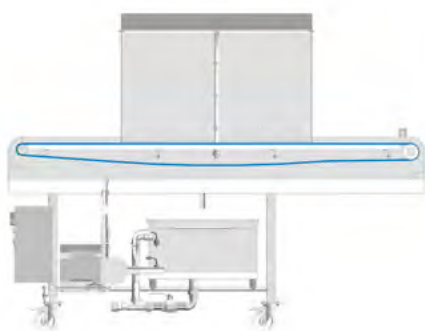
Sanitising Conveyor



The BRC Global Standard for Food Safety requires there to be a physical segregation between low and high care areas.

SYSPAL Sanitising Conveyors are the ideal product to allow transfer of tools and utensils, packaged food ingredients and packaging products safely through the segregation between high and low care, ensuring you meet the BRC Global Standard's requirements.

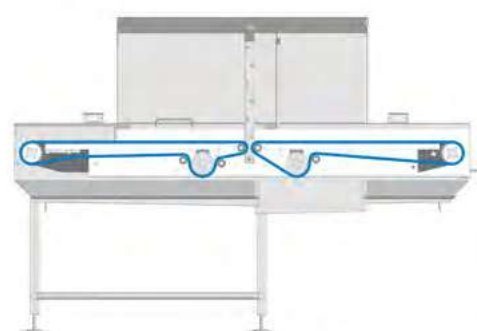
Belt Transfer Options



Straight through belt



Looped belt



High care / low care separated belt

- 304 stainless steel construction
- Food grade modular plastic conveyor belting
- Variable speed conveyor
- Belt transfer options available
- Models available as standard 1.4m or 2.1m long
- Available with full recirculating or direct to drain for the sanitising solution
- Optional in feed and out feed gravity tracks

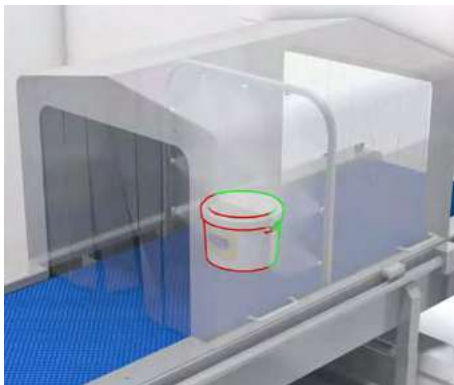
Sanitising Conveyor - Production Flow



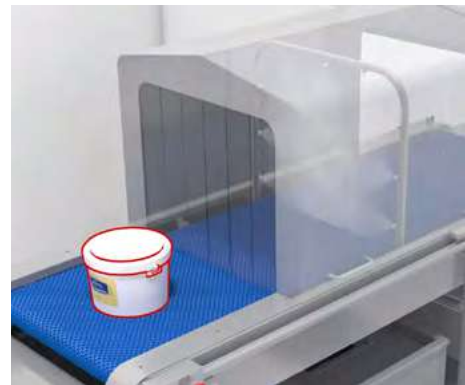
Product is bought in on pallets



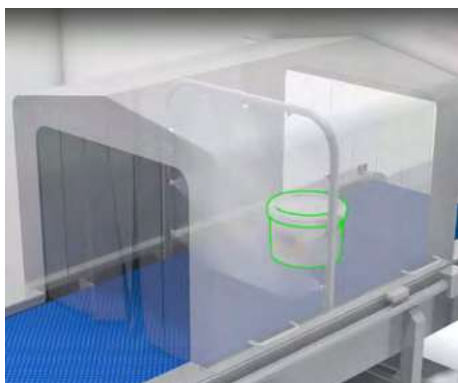
Sanitiser is used to take items from low care to high care



Solution from the stainless steel jet nozzles is sprayed over the product sanitising it



Product goes from low care (red) to high care (green)

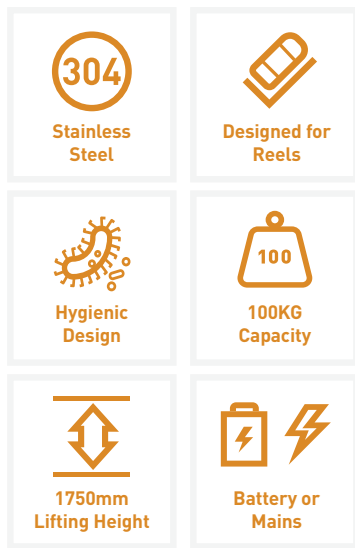


Once passed under the nozzles the product is sanitised



Product is safe for a high care environment

Reel Handling and Storage



The SYSPAL Manual Reel Lifter is specifically designed to assist in the transport and lifting of film reels and rolls around hygienic working areas. Engineered to reduce injuries caused by manual handling. Key features include:

- Bespoke designs to accommodate film reels and rolls
- Manual winch operation eliminates the requirement for recharging ensuring the lifter is always available for use
- Small footprint and easy manoeuvrability ideal for narrow working areas
- Braked castors provide stability whilst lifting
- Range of compatible reel storage equipment available

SYSPAL Essentials



Standard Eurobins

Unique reinforced rim to ensure rigidity of the buggy. Manufactured to DIN 9797 and fully compatible with standard lifters. Additional base plate 3mm thick. Reinforced axle with diamond wheel pattern for easy manoeuvrability.

120L	L540 x W540 x H600mm	520/400456M
200L	L700 x W700 x H710mm	520/400106M
300L	L710 x W680 x H940mm	520/400443M

Optional Extras

Identification
Plates

Discharge
Valves

Chemical
Etching

Colour
Wheels



Clean Line Eurobins

Detachable wheel base keeps germs on the floor. Recognised by leading supermarkets. *Base included in price.

200L Base	L700 x W700 x H710mm	520/400106MNW 520/200L020
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Insulated Eurobins

Insulated body and lid enable product to be kept at a constant temperature.

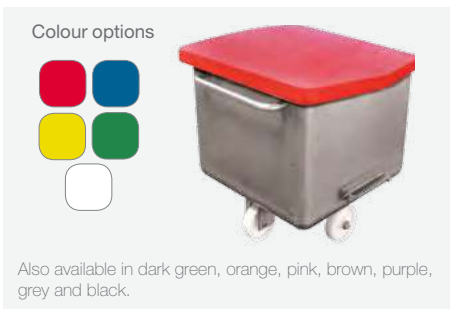
160L	L700 x W700 x H710mm	520/3000-060
200L	L690 x W675 x H710mm	520/3000-5911000



Chuted Eurobins

Optimised for liquid based and small products. Solid chute to front. Reinforced base up to 5mm thick.

200L	L730 x W680 x H950mm	520/400109M
300L	L730 x W680 x H1200mm	520/400444M



Polyethylene Eurobin Lids

Food grade polyethylene. Standard colours include: red, yellow, green, blue and white.

Lid	L750 x W700mm	522/200BL
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Stainless Steel Eurobin Lids

304 grade stainless steel. Available in 2 variations.

Open Corner	L715 x W680mm	520/001201
Without handles	L750 x W680mm	520/001098
With handles	L750 x W680mm	520/001054



Plastic Eurobin Covers

Disposable Eurobin covers for easy identification.

**Email us or call us today for
your FREE SAMPLE**



Disposable Cover/Roll Racks

Mobile dispenser unit for storage of Eurobin or dolav disposable film reels/covers. Eurobin cover rack has 5 tiers and the dolav film reel rack has an option of 1 or 3 tiers. Spindles for dolav film reel rack sold separately.

Eurobin Cover Rack	L740 x W720 x H1394mm	548/016035
Eurobin Cover Dispenser	L800 x W250 x H250mm	513/036001
Dolav Cover Rack Spindle	L1420 x Ø60mm	548/016243-SP
Dolav Cover Rack 1 tier	L1420 x W720 x H1394mm	548/016244
Dolav Cover Rack 3 tier	L1580 x W720 x H1394mm	548/016243



Speak to a member of the SYSPAL Mechanical Handling project team today, to discuss how we can help make concepts into reality. Whether you are dealing with production efficiency issues, or simply wish to reduce manual handling involved in a process, we can help. From feed systems, conveyors to mechanical handling equipment, SYSPAL can design the ideal production solution for you.

Seven Steps To Project Success

	Project Consultation
	In House Design
	3D Design and Testing
	Advanced Manufacture
	Project Delivery
	Installation & After Service
	Repeat Customers