



# MECHANICAL HANDLING

Stainless steel mechanical handling equipment and associated essential products



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# 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.

#### Hvaiene

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.

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# **Eurobin Weigh Scales**











WS1 Manual 250kg capacity scale



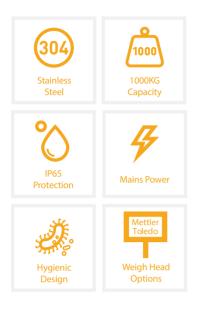
WS2 Manual 350kg capacity scale

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







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:

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

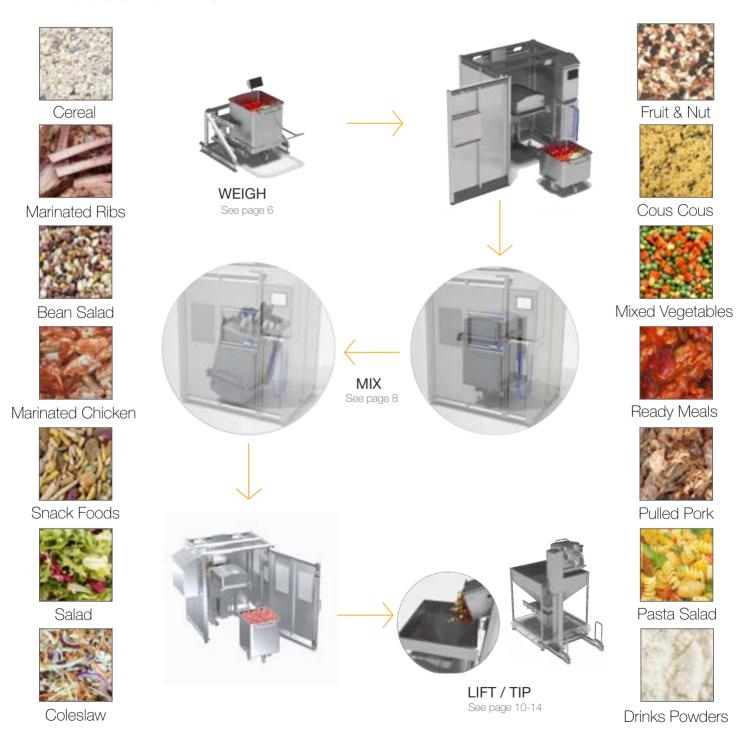




## Eurobin Tumbler Range - Product Mixing

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 - TT3









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.

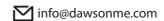
#### Key features include:

- 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 Tippers





Capacity









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





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

#### Guard Options







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.

















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





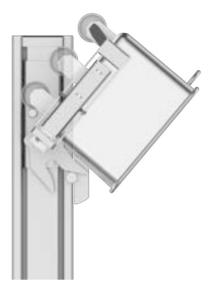


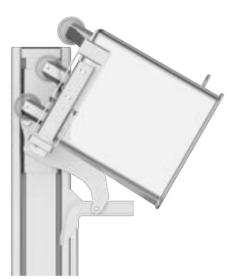
The combination of a tip curve function and additional track mounted chute maximizes product control when feeding cooking kettles or vessels for similar processes. The track chute raises and lowers with the carriage during lift operation and is positioned prior to the tipping of the bin. Chute and guard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

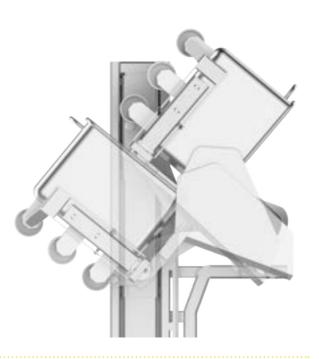




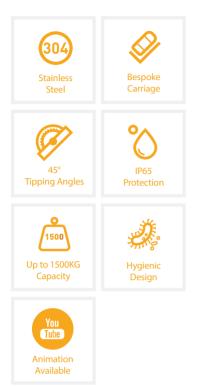








# **Double Column Tipper**





#### Carriage Options







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**



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



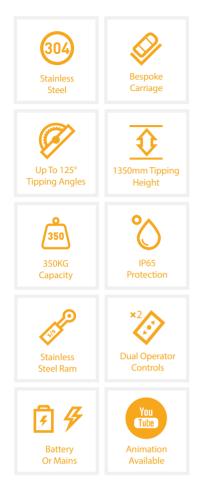
# Tippers - HT2



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's 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



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



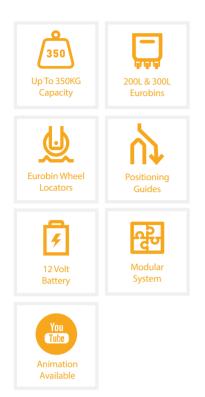
## Dolav Tilter - HA400



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**











Double Pneumatic



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



















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
- Single and double models available
- Full 360° access to the interior and exterior including the base and wheel arrangements



## 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
- No requirement for floor pits or civil works
- Freestanding bolt-down construction
- 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.





300

#### 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.











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 tippers. 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
- Length and width available to suit customer requirements



- Low maintenance electromagnetic drive
- 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.



- 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

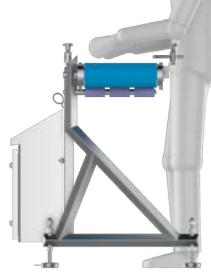
## Cantilevered PU Belt Conveyors

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)



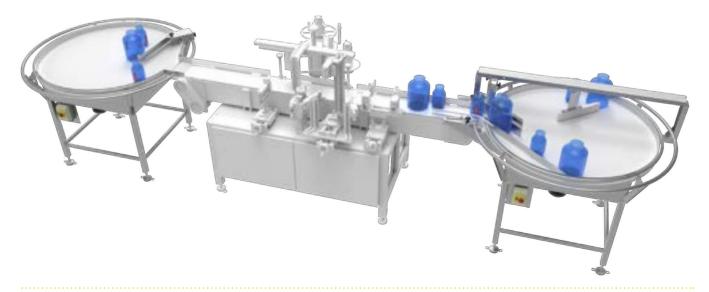




## Rotary Turntable Projects

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.





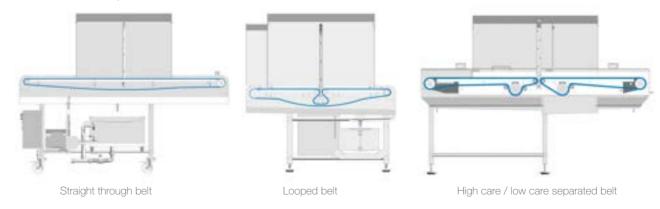
# **Sanitising Conveyor**



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



- 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

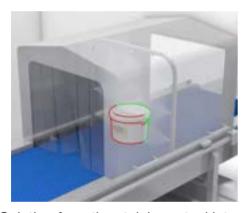


Product is bought in on pallets

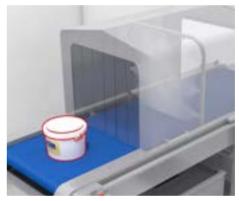


Sanitiser is used to take items from low care to high care



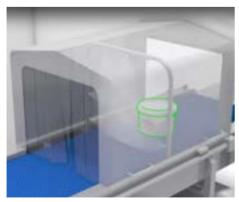


Solution from the stainless steel jet nozzles is sprayed over the product sanitising it



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 buggie. 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	L700 x W700 x H710mm	520/400106MNW
Base		520/200L020



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

160L	L700 x W70	0 x H710mm	520/3000-060
200L	L690 x W67	5 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

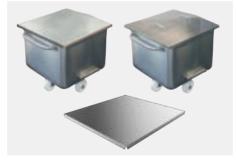


grey and black.

#### Polyethylene Eurobin Lids

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

Lid	I 750 x W700mm	522/200BL



#### 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 CHEP film reel rack has an option of 1 or 3 tiers. Spindles for CHEP 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
CHEP Cover Rack Spindle	L1420 x Ø60mm	548/016243-SP
CHEP Cover Rack 1 tier	L1420xW720xH1394mm	548/016244
CHEP Cover Back 3 tier	I 1580 x W720 x H1394mm	548/016243

# dyson airblade wash+dry





Basin Mounted

#### **WRAS Approved Knee Valve and Flexible Hose** \*\*\*2 year warranty on sensor\*\*\*







#### 6 Station Hand Wash Sinks

- 304 grade stainless steel WRAS approved knee valve and flexible pipe
- 500mm centres
- Optimum working space Sensor can be battery or mains powered

ash S	Sinks	Knee Push		Mains Sensor	Battery Sensor
1 station	L575 x W420 x H537mm	517/006011-K	517/006011-M	517/006011-	BS
2 station	L1075 x W420 x H537mm	517/006012-K	517/006012-M	517/006012-	-BS
3 station	L1575 x W420 x H537mm	517/006013-K	517/006013-M	517/006013-	BS
4 station	L2075 x W420 x H537mm	517/006014-K	517/006014-M	517/006014-	-BS
5 station	L2575 x W420 x H537mm	517/006015-K	517/006015-M	517/006015-	-BS
6 station	L3075 x W420 x H537mm	517/006016-K	517/006016-M	517/006016-	-BS

#### **Changing Room Equipment - Boot & Shoe Storage**







#### **Lockable Footwear Storage**

Lockable footwear storage with models available for boots or shoes. Both models have capacity for 36 pairs of footwear.

Boots L1500 x W500 x H2000mm	521/009135+LOCK-2
Shoes I 2348 x W500 x H2000mm	521/009195+LOCK-2

#### Over Kerb Shoe Storage Rack

Wall fixing over kerb shoe storage rack with 2 adjustable feet. Made from 304 grade stainless steel. 2 sheet shelves for shoe storage.

750mm	L750 x W440 x H550mm	551/001223
910mm	L910 x W440 x H550mm	551/001220
1500mm	L1500 x W440 x H550mm	551/001222

#### **Shoe Storage Tree**

Manufactured 304 grade stainless steel. Wall mounted vertical shoe tree 5 pair capacity. 4 fixing holes. Shoes/ clogs not included.

5 Pair	L436 x W137 x H982mm	521/009133

