



## PRODUCT PORTFOLIO





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**TECNOSWEET**  
DIVISION OF TSW INDUSTRIES

**TEPACK**  
A TSW INDUSTRIES COMPANY



**Hitech** *Systems*  
DIVISION OF TSW INDUSTRIES



**TSWA**  
TSW AMERICA



**TSW**  
**ROBOTICS**  
DIVISION OF TSW INDUSTRIES



**TCD**  
TSW CARTONING SYSTEMS

"WE, AT TSW INDUSTRIES, ARE TRYING HARD TO KEEP UP WITH THE EVER CHANGING DYNAMICS IN FMCG PACKAGING AND STRIVING TO PROPOSE ALWAYS NEW, FLEXIBLE AND COST EFFECTIVE SOLUTIONS."



# Innovation



## ABOUT

With engineering and project management that really understands the challenges of today's packaging industry TSW Industries is the most comprehensive technological hub providing packaging solutions to a Customer's base seeking for a true partner to help them compete effectively in today's demanding markets.

Our Group aim is to become a major supplier of Integrated Packaging Technology to key industry sector including food and beverages, bakery and biscuits, chocolate and confectionery, frozen foods, pharma and consumer goods.

From chocolate moulding to products buffering, from handling and distribution systems to flow wrapping and roll wrapping, from cartoning to full automated secondary packaging ends of line, time after time the world leading companies place their trust in TSW Integrated Packaging Technology.

A common design platform with universal mechanical and electrical standards are adopted group wide. Our shared R&D successfully brings together cutting edge technologies to offer clients the benefits of placing a single contract with a partner who is able to provide a turn key system project managed from initial concept to site acceptance and beyond.

Whether your requirement is a stand alone machine or a sophisticated totally integrated solution TSW makes the ideal partner.



# TSW INDUSTRIES

TSW possesses extensive experience  
**handling and wrapping**  
baked goods offering complete  
automatic line and loading  
solutions, from inline biscuit sandwiching  
to flow wrapping and inline wrapping



## TSW INDUSTRIES

TSW has sound experience in high speed projects with raw **removal and flow wrapping systems** offering a wide choice of specialty modules including layer collators, cardboard feeders, tear tape applicators and much more.



## TSW INDUSTRIES

With inhouse research, development and engineering, TSW offers completely integrated **packaging solutions** including primary, secondary and tertiary equipment





## FMCG

TSW Industries has designed and manufactured packaging machines and systems to meet the specific needs of FMCG industries. A wide variety of essential and everyday products in the home are handled by our systems including many major names in a variety of international markets

## BAKERY & BISCUITS

We initiate major advancements in technology development to not just meet but exceed the increased demands for speed, flexibility and accuracy in the production of bakery and biscuits, cakes, snacks and nutritional bar throughout the world. TSW specialists are available to offer the necessary advice as selecting the most appropriate machine depends greatly on the handling characteristics and formats of your products.



## CHOCOLATE & CONFECTIONERY

TSW Industries has a wealth of experience supplying moulding and packaging machinery to the world's chocolate and confectionery industries. Our knowledge in the gentle handling of all types of chocolate and confectionery products is second to none. From single stand alone machines to complete high speed packaging systems TSW Industries offers a comprehensive range of product storage and distribution, orientation and collating, vertical, flow and roll wrapping machines, robotic loading and cartoning, wraparound tray and case packing systems.

## FRESH & FROZEN FOOD

TSW Industries has an extensive experience in the supply of machinery of every kind to meet the specifications demanded by each industry. Wipe down to full stainless steel execution with wash down capability and suitable protection class to meet the most critical environmental operating conditions.



## FLEXIBLE PACKAGING

The packaging solutions offered by the TSW Industries Group are widely used for powders, liquids, gels, creams, granulates and much more such as sugar, coffee, milk powder, mayonnaise, ketchup, soya sauce, etc.



# INDIVIDUAL TECHNOLOGIES



**CHOCOLATE MOULDING**



**COOKIE'S CAPPING**



**FLEXIBLE PACKAGING**



**BUFFERING SYSTEMS**



**DISTRIBUTION SYSTEMS**



**FLOW WRAPPING**



**CARTONING**



**PRODUCTS HANDLING**



**END OF LINE**



**PRODUCTS PLACING**



**LOADING SYSTEMS**



**BOX FORMING**





## CHOCOLATE MOULDING

Flexible moulding lines based on loose-mould principle with true modular design. Design and construction to latest standards in terms of sanitation, low maintenance, and low utility consumption.

Machines are designed for easy change-over providing greatest accessibility for cleaning and maintenance. Machine frame is separated in two levels by stainless steel work surface. The lower section houses all the utilities, executed in the tubular steel, and has floor levelling supports. The upper section houses all process stations, and the mould motion groups. A variety of depositing styles are available.



## BUFFERING SYSTEMS

To ensure maximum production stability protection our FIFO gondola buffers are designed to bridge machinery downtime and provide for just in time products availability.

In special applications, like stand up pouches handling systems, the TGB, suitably equipped, can also act as pasteurization tower and cooling proofer when heating and cooling processes are required.

The TGB series is available in a number of versions and with many options and it is therefore very suitable for a wide range of applications in the food- as well as in the non-food industry.

With useful widths from 800 to 1600 mm this system can be perfectly adapted to all critical space situations.

The unit consists of welded-frame housing in which endless chains circulates with attached gondola carriers. Our horizontal U Buffer is ideally suited for random product flows and provides a cost effective solution at the front end of a production line.

This system automatically lengthens to buffer product and shortens when re-feeding.





## SMALL PRODUCTS FEEDING SYSTEMS

Effective multileg high volume solutions to interface processing to wrapping securing a consistent flow and the correct distribution of products like pralines, bon-bons, candies, etc.

With many years of experience in the handling of delicate, sticky, friable and fractious products our handling and feeding systems never fail to deliver and present your products perfectly to the next stage of the wrapping cycle.

## AUTOMATIC DISTRIBUTION SYSTEMS

TSW Industries designs and manufacture several models and widths of multilegs row distribution systems.

These systems are suitable for the cross transfer of products rows up to 50/min per transfer module and can be equipped with a variety of buffering solutions like back cycling storage conveyors as well as trombone style accumulation conveyors.

Extractable transfer trolleys as well as soft transfer modality for delicate products are only some of the extra features available on demand.





## SANDWICH BISCUITS DEPOSITOR & CAPPING

The HBDC system by TSW is designed to run soft cake, wirecut and rotary moulded biscuits that fluctuate in size and shape because of upstream processing lacking of adequate control.

Modular fully servo depositing and capping system for the high throughput manufacturing of any kind of products like sandwich biscuits and tartelettes.

The HBDC standard program includes a widths range to fit the most common oven s sizing and a variety of sandwiching configurations to fit any specific need.

The HBDC system includes a product s handling line to be connected at the outlet of the product s cooling system and a composite product s rows indexing system to secure the most appropriate product s positioning for accurate filling deposit.





## BISCUITS HANDLING SYSTEMS

High volume production lines rightly demand fully automated packaging systems that offer flexibility in format and operation and are capable of accepting normal irregularities in the product itself and in production supply rate.

With many years of experience in the handling of delicate, sticky, friable and fractious products our handling and feeding systems never fail to deliver and present your products perfectly to the next stage of the wrapping cycle.

## STACKS LOADING

To compliment its product s handling systems Hitech Systems division of TSW Industries has developed the HSL multilanes stack s loaders series.

The HSL is suitable for the composition of multi product stacks delivering them within the flights of any flow wrapper lug s chain. The numbers of products per stack are only limited by its stability during the cross transfer.

Twin stack transfer within a single pitch of the lug chain is available on demand.

The HSL is normally controlled by the HMI of any TSW flow wrapper but it can be also supplied as stand alone unit with its own control panel.





## METERING SLUG LOADING

These servo assisted multilane loaders automatically measure and transfer slug of biscuits, crackers, crisp bread slices onto any wrapper in feed bar chain when products on edge configurations are required. The HML receives the products already on edge either from vibratory feeders or by conveyors.

Electronically synchronized to the wrapper and controlled by any TSW wrapper can also be supplied as a stand alone unit with its own user friendly MMI panel.

## AUTOMATIC FEEDING LINES

TSW Industries designs and manufacture several smart multibelts products feeding systems operating at high speed with total control of the products positions.

These systems, totally servo driven, can be integrated, on demand, by specialty modules like in line stacking chain, twin feeder (for products in twin configuration side by side), various U board feeding solutions, product s grouping carousels, cross feeders, etc.

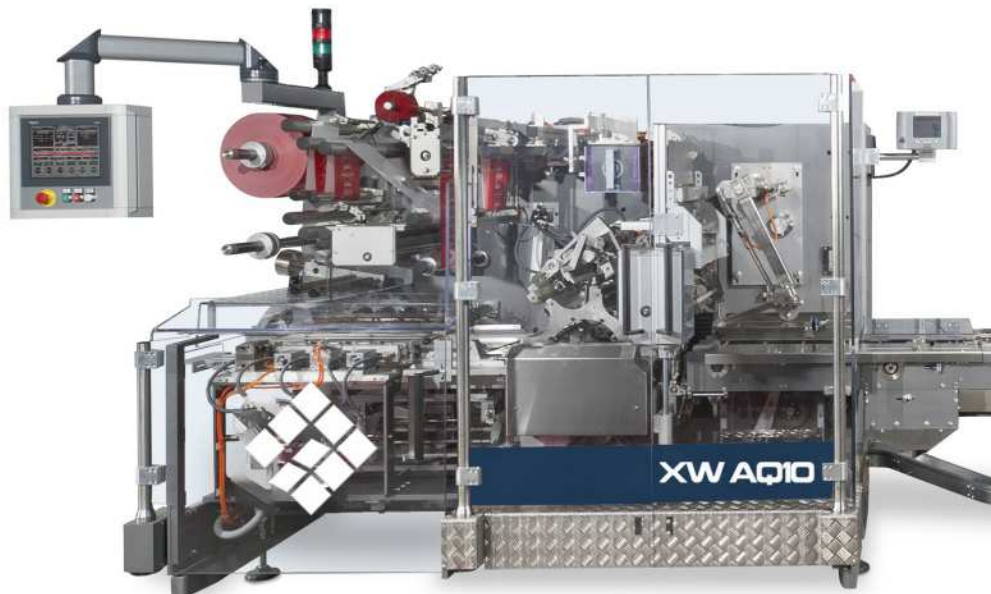




## FLOW WRAPPING

TSW Industries designs and manufactures a variety of pillow pack style flow wrappers suitable to serve low, mid and high end speed requirements.

Each and every model of the range represents a non compromising piece of equipment, easy to integrate with any TSW automatic and semiautomatic feeding system, using the latest servo technologies and standardly fitted with superior class features.



## END FOLD WRAPPING

TSW Industries designs and manufactures a variety of ends-fold style wrappers suitable to serve low, mid and high end speed requirements.

Each and every model of the range represents a non compromising piece of equipment, easy to integrate with any TSW automatic and semiautomatic feeding system, using the latest servo technologies and standardly fitted with superior class features.



# INDIVIDUAL TECHNOLOGIES



## CARTONING

TSW Industries designs and manufactures high quality and efficiency fully servo driven continuous motion end load cartoners supplying this equipment to fast moving consumer market covering a wide spectrum of operating speeds. To compliment this range TSW has developed a wide choice of collator and infeeding systems like cascade loading, smart belts, racetracks, flat pack and on edge.



## ENDS OF LINE WORKING CELLS

TSW Industries designs and manufactures custom built top loading ends of line with multi servo axis technology operating at high speed for a real flexible automation. This modular program ensures almost endless solutions to any Customer needs by combining the specialty modules with outstanding operational reliability thus efficiency and productivity whilst maintaining the highest quality of the finished products. The system modularity allows also future module integration following the evolution of our Customers markets.



## CASEPACKING

TSW Industries offers both pre formed cases and wrap around case packers in combination with appropriate collators for a very wide range of products. All machines can handle corrugated and carton board material. Closure by tape or hot melt adhesive are available. TSW range of case packers delivers flexible solutions to satisfy the demands of modern shelf ready retailing.





## ROBOTIC PLACERS

The HDP is a delta robots integrated linear placer suitable to operate with regular or random incoming products (detected by a vision camera system).

The main field of application is feeding the products to any wrapper in-feed systems or the filling of containers where the aforesaid products need to be placed being cavity trays, tubs, boxes, etc.

The HDP standard cells are equipped with 2 parallel kinetics delta robots with multi-picking operating software that provides the most effective sequence to avoid products to reach the end of line.

The correct orientation prior to deposit is achieved by a dedicated axes fitted on the robot wrist.

## BOX/TRAY FORMING

The VBF by TSW Robotics is a fully electronic and servo-driven high speed vertical box/tray/lid forming machine achieving highest standards in terms of reliability, efficiency, accessibility, user friendly, easy changeover and low maintenance.

The VBF is featuring a compact design, it is available in one, two or three forming heads versions and it is suitable also to erect complex and odd shaped boxes.



## CASE ERECTORS

The TCE automatic case erecting system works with a quite different principle from a classic erecting system with a positive opening movement allowing to erect almost the majority of RSC/HSC types available in the market (common flute sizes are A, B, C, E and F) either single and multiple wall.

Due to its special design, the TCE system can easily handle cases up to of pallet size case (600x400x400mm).



# INDIVIDUAL TECHNOLOGIES



## FLAT SACHETS

Flat sachets multilane technology is commonly used in Food, Cosmetic and Pharma applications. Thinking of a flat four side sealed sachet is normally associated to typical sugar pouch as seen in bars and restaurant but there is much more to it. Suitable for granulates, gels, pastes, liquid or powder products our 3 or 4 side sealed flat sachets are ideal also for single doses products such as eyewashes representing the most appropriate packaging style for sampling purposes.



## STICK PACKS

The stick-pack style is indicated for reduced wrapping material consumption and limited floor space. The stick pack technology is suitable for a variety of consumable goods like powders, gels, pastes, liquids, creams and much more. Simply to operate and to maintain reducing any risk for downtime our stick pack ranges comes in multiple lanes configuration to serve from lab to intensive production environment requirements.



## DOSING SYSTEMS

Our filling and dosing systems are specifically designed to secure accurate weights and dosing precision of the specific products to be wrapped. From volumetric dosers, to auger fillers with the highest hygienic standards, from liquids fillers to flow-meters and tablets rotary feeders.







At TSW we have a deeply understanding of the challenges facing our Customers and we are proud of our exemplary service.

Our specialistic after sales teams are dedicated in supporting you and your business with both commitment and professionalism.

With TSW you can be confident that our support and expertise continue well beyond the initial installation stage. Whether you need remote or on site technical service and support; spares or change parts; training; equipment modifications or any other form of backup we are always there to support you.

## GENUINE PARTS

As original manufacturer of your machinery we are the sole supplier of original parts, all designed to our standard to "fit first time," securing optimum performance and lifespan efficiencies.

Advantage include:

- Maximum production "uptime"
- Eliminates the false economy of "non genuine" spares

Our fastest moving spares are available ex-stock. In order that we can remain responsive to your requirements we hold complete machine records to ensure full backup, technical support so that advice for your equipment is readily available.

## CHANGE TOOLING

We recognise that all products have a lifecycle, which means that our machines are designed to be versatile and adaptable to suit your changing requirements. Our after sales teams have in-depth, expert knowledge and we can advise you on product and pack format changes as well as upgrades available for your equipment.

Services include:

- Dedicated design change process and manufacture
- Quick delivery of conversion and upgrade equipment ensuring minimal time to market

- Installation and commissioning of change parts to suit ne applications subsequently improve the skill base of your operators/engineers to ensure optimum line productivity.

## SERVICE VISITS

The ongoing development of our multi skilled Service Teams ensures that we are equipped to respond quickly and effectively to your service requirements, on site training and repairs.

Naturally our field engineers work alongside your own engineers and operators to communicate adjustments, modifications and additions made to your equipment; provide training where and when required, recommend improvements in procedures and suggest best practices to ensure that your equipment continues to perform in a way that not only meets, but exceed your expectations.

## SERVICE AGREEMENTS

We will be pleased to review your individual circumstances and requirements to tailor a specific service profile to suit you and your production demands.

Our service agreements provide a proven range of service engineering support products including: Preventative maintenance plans

Spares discounts

Agreed response time

Remote monitoring

Refresher training program

Please contact our Service Team to discuss how a TSW service agreement can help maintain your equipment in peak condition.



# TOTAL CUSTOMER CARE

## TRAINING

We believe that the best way to enhance the efficiency of your installation is through the training and development of your people. To secure optimum performance of our installations we offer a wide range of training programmes which facilitate operator and engineer development and provide you with consistent in house capability. Training solutions are tailor made and can be delivered on a one-to-one or group basis as well as to staff at all level of your organisation.

Our training packages include

- Initial installation training/equipment familiarisation.
- Operator training; efficient day to day operation including troubleshooting
- Maintenance engineers training
- Routine refresher training; maintaining consistent employee s skills standards

## PERFORMANCE UPGRADES

We can provide expert advice on packaging solutions, conversions and upgrades to maintain and increase your commercial advantage. These services include :

- Integration of leading edge servo motion and control package
- Enhanced user interfaces
- Improved fault diagnostics
- Enhanced performance and efficiency
- Delivery of increased output and uptime
- Upgrades bulletins to keep you informed of the latest developments
- Design out obsolescence to extend the working life and productivity of your valued assets



## REFURBISHMENT

Our comprehensive refurbishment programmes are designed to provide cost effective solutions to upgrade your machinery, return it to an as new condition and ultimately deliver improvements in performance and output.

- Graded refurbishment programmes with transparent specifications/costing
- Service exchange module schemes to minimize production downtime
- Return to base refurbishment projects offering full technical design/manufacturing resources on hand
- On-site refurbishment programmes
- Rotational refurbishment schemes with the benefit of minimal production downtime

## PROCESS IMPROVEMENT PROGRAMMES

As a direct result of our success supplying applications to the global marketplace we have acquired a comprehensive knowledge and experience in the packaging industry.

Our engineers are specialists in all principals of design, technology and control process disciplines. Our skilled teams are equipped to work in all packaging line environments and have the expertise to recommend and implement improvements to your entire process line.



## TSW INDUSTRIES, THE *POSSIBLE* COMPANY

At first people refuse to believe that a strange new thing can be done, then they begin to hope it can be done, then they see it can be done then it is done and all the world wonders why it was not done long ago.

(Frances Hodgson Burnett)





# IMPOSSIBLE



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