



total
SOLUTIONS

HYGIENIC CONVEYOR SOLUTIONS

A Proud Member
of the **FPS Family**

*Crafting Pure Food
Processing Solutions*

WHO WE ARE

About TSL

TSL is a proud member of the FPS Food Process Solutions Corp. FPS global family. We are based in Auckland, New Zealand and serve the Australasia region. We pride ourselves in communicating closely with our clients taking projects from conception to completion. Our in-house team of skilled professionals are capable of handling a wide array of multi-level industry projects that include mechanical and electrical design, manufacturing, fabrication and installation.

OUR VISION

To Protect Food Quality and Safety

We bring decades of engineering experience and FPS's global commitment to Revolutionizing Hygienic Standards to the food processing sector. We listen to our customer's needs and work collaboratively to bring innovation and creative solutions to every project. Through innovative and hygienic design, we will protect the pristine quality of your food.

OUR MISSION

Crafting Pure Food Processing Solutions

From our hygienic designs, to our material and component selections, from our engineers, to our welders and fabricators, from our project managers, to our installation teams; our food processing equipment is designed with one focus to deliver innovative food processing solutions for safe food production. We will protect and guard the quality of your food.



INGENUITY + ENGINEERING EXCELLENCE

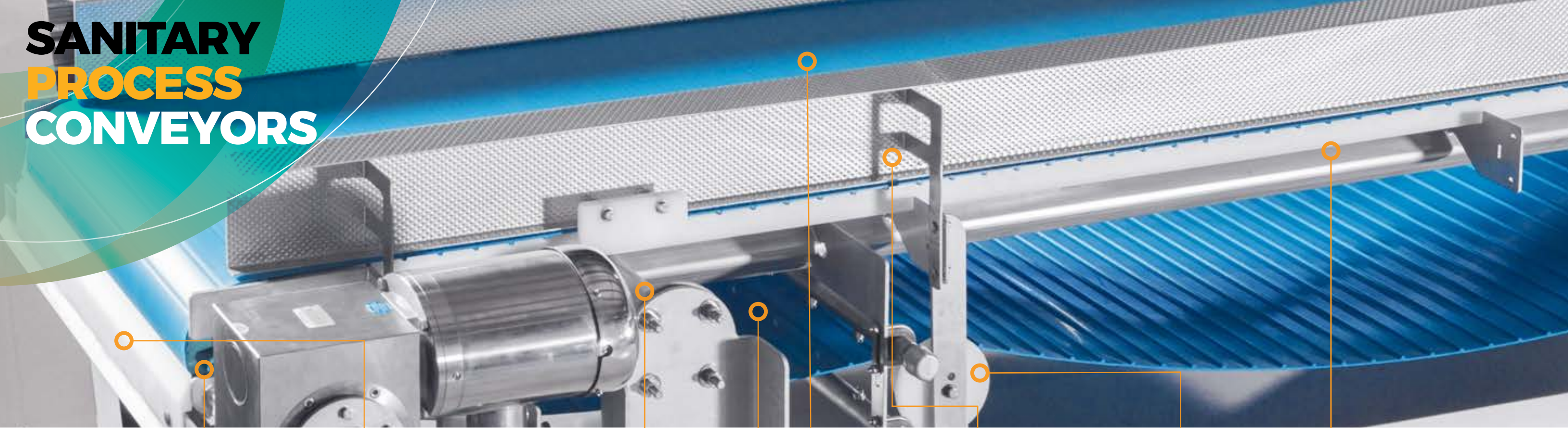
OVERVIEW

Our range of conveyor systems have been developed for industries including fruit and vegetable, seafood, meat and poultry. From raw material handling through the process area to the final packaging stage in your facility, our conveyance systems are hygienically designed to deliver your product safely to consumers.

With multiple design styles and belting options available, our conveyance systems are custom designed to meet your processing needs, optimize efficiency and improve product yield. Working with your space constraints and specific product needs, we deliver top tier food processing solutions that work for you.



SANITARY PROCESS CONVEYORS



Drive Sprocket and Tail Rollers

All drive sprockets and tail rollers incorporate food grade plastics and sanitary design. Our hygienic spacer design is manufactured as one piece eliminating the need for fasteners and shaft collars.



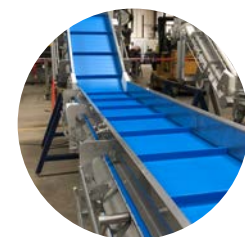
Sanitary Gravity Belt Scraper

Our UHMW food grade scraper blade is designed with a special convex scraping surface. When coupled with the gravity weighted design, holds the scraper with the proper force against the belt surface. Our design provides positive removal of product and can be changed out quickly without the need for tools.



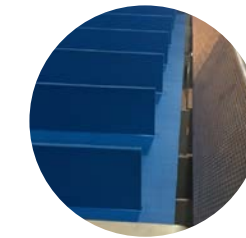
Fully Welded. Sanitary Conveyor Frame

Our robust support frame is designed with an open frame to facilitate cleaning and sanitation. All frames and cross members are designed to eliminate flat surfaces and standing water. Precision continuous TIG welding ensures the frame is free from cracks and crevices, eliminating harborage areas.



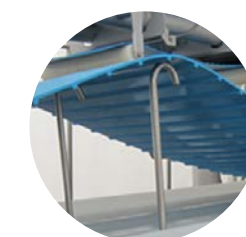
Sanitary Belting

Working with industry leaders in hygienic belting we provide a wide range of belt types and customized sizes to meet your conveyor needs.



Fold Out Sides

Our fold out sides are made from UHMW or rigidized sheet. During the sanitation process the sides can be folded out away from the belt allowing for manual belt lifts to be engaged. This increases the accessibility to conveyor components for easy cleaning. Sides remain attached to the equipment, preventing contamination with non clean surfaces and allows for cleaning of the sides in place.



Belt Lifters

Manual belt lifters permit the belt to be lifted easily, enabling the sanitation crew to access the area under the belting, the carry way supports, and all the internal conveyor components.



Removable Carry Way

Fabricated with solid 1 1/2" UHMW wear strips with chamfer edge, the carry ways are safe for all food processing environments. The carry ways can be removed without the use of tools for ease of cleaning and sanitation.



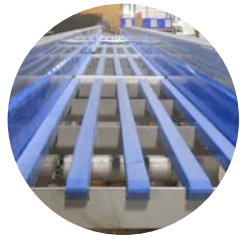
Sanitary Return Roller

The sanitary roller discs are manufactured from solid UHMW and have a unique design with no clips, bolts or collars attached to the roller shaft assembly.

RAW MATERIALS CONVEYORS



PACKAGING CONVEYORS



Carry way and return way rollers

All rollers are custom fabricated, one piece, and fully sealed manufactured from pipe and solid shafting. External pillow block bearings offer longer life compared to internally mounted bearings. Carry way design is a rugged combination of TIVAR HPV supports and rollers that can be easily removed for service and replacement.



Head roll and tail roll

Large diameter head and tail roll assemblies are utilized to maximize belt pull and extend belt life. Custom one piece fully welded construction with through shafts ensure rugged design and long life. Rubber lagged head rolls and the use of snub rolls are utilized to maximize belt pull capabilities for heavy loads.



Stainless steel support frame

Our packaging conveyors are manufactured from stainless steel with rugged formed sides. 12 gauge, 10 gauge, and 3 16 304 SST plate are routinely used pending the application and product weight from bagged product to empty box to full box conveyor applications.



Modular belting

We use high quality, food grade, modular belting with belt types selected to meet the demands of the application – flat, incline, decline, curved, dewater, indexing, tight radius, topping lift, etc.



Rugged frame construction

Our unique and innovative frame design provides stiffness and ruggedness to handle heavy loads normally associated with raw product receiving. The continuously welded cross members is easier to clean and eliminates the need for fasteners.



Belt scrapers

A belt scraper is placed at the discharge point to ensure transfer of product and any debris and dirt downstream for cleaning, sizing, and further processing. An internal scraper placed near the tail roll inside the belt ensures no carry over of debris which reduces belt tracking issues.



Open access to conveyor components

Our support frame is designed with precision cut, open access holes with built in guarding near pinch points. All frames and cross members are designed without flat spots to prevent standing water. Precision continuous TIG welding ensures the frame is free from cracks or crevasses eliminating harborage areas for contaminants, box board dust, or bacteria.



Special applications

We have designed several specific applications for the packaging area of the process including dewatering and pneumatic blow off conveyors, case shaker/settlers, bag wash conveyors to remove brine, pop up conveyors for 90 degree transfer, bag flatteners, merge and converge, and topping lift conveyors.

CONVEYORS TO MEET EVERY NEED

INNOVATIVE CONVEYOR SOLUTIONS FOR

- PLASTIC MODULAR BELTING
- HOMOGENEOUS, SOLID URETHANE BELTING
- RUBBER AND FABRIC BELTING
- WIRE MESH BELTING
- INCLINE AND DECLINE APPLICATIONS
- RADIUS CONVEYORS, CUSTOM CURVES
- SPIRAL APPLICATIONS
- TROUGH CONVEYORS
- FLUID REMOVAL SYSTEMS FRS
- DEWATERING CONVEYORS
- VIBRATORY CONVEYORS
- TOTE HANDLING CONVEYORS
- OZONE WASH CONVEYORS
- MERGE, DIVERT, AND SORTING APPLICATIONS
- HEAVY DUTY CUT CONVEYORS
- CASE HANDLING CONVEYORS
- STACKED TRIM TABLE AND PACK OFF CONVEYORS



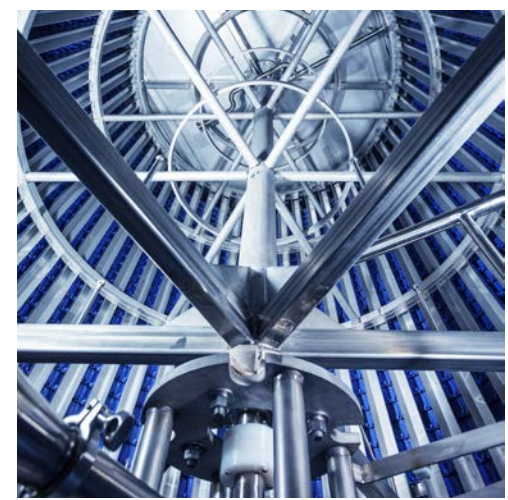
We work with each food processor to determine exactly what kind of solution is required to solve their problem. Through a detailed scope development process and active listening, we determine the best application for your processing needs. Leveraging our hygienic design engineering experience we challenge our team to innovate and solve problems others cannot.



All design, draughting and engineering work is carried out in house by qualified and experienced staff with help of our Global team at CMP and FPS wherever required. TSL workshop facilities includes MIG and TIG welders, guillotine, brake press, punch presses, punch and shear, rolling machines, drill presses, turning and more.



You can have confidence that everything we design, manufacture and install is carried out using sound engineering practices and internal quality control procedures.



As a subsidiary of FPS Food Process Solutions Corp, we are part of a global enterprise dedicated to manufacturing the safest food processing equipment in the world. We source our materials from only the highest quality producers and hold our staff accountable for being part of the food safety movement.



Total Solutions always strive to identify new and innovative solutions to meet our client's needs. We pride ourselves in partnering with our clients to create solutions. Using Total Solutions' vast knowledge base means we have confidence to deliver the most effective solution for your needs from conception to completion.



Our large installation team travels across the globe to ensure the installation of your equipment is completed with quality precision and accuracy. We work alongside you during commissioning and do not leave your facility until you are satisfied with your equipment installation and the service you've received.



TSL SOLUTIONS

total + FPS FOOD PROCESS SOLUTIONS SOLUTIONS

• SPIRAL SYSTEMS

Direct Drive and Side Drive Technology Solutions

• TOTE HANDLING SYSTEMS

Dumpers, elevators, washers, storage systems

• BATCH AND CONTINUOUS COOKERS

Atmospheric steam, high pressure steam, hot water

• BATCH AND CONTINUOUS CHILLERS

Fresh water, brine

• FLUID REMOVAL SYSTEMS

Belt conveyor, vibratory conveyor, suction plenum systems

• SEAFOOD PROCESSING SYSTEMS

Complete process lines for lobster, crab, mussels, and other shellfish.

• FRUIT PROCESSING SYSTEMS

Complete line cranberries, blueberries

• ADD BACK SYSTEMS

Tote dumping and even flow of frozen product back into the packaging line

• PROCESS TANKS AND STORAGE TANKS

Wide range of single wall and jacketed tanks to 20,000 gallons capacity

• SANITARY CATWALKS, MEZZANINES

Sanitary catwalks, platforms, support structures and mezzanines

THE WORLD'S MOST HYGIENIC END-TO-END SOLUTIONS

TSL provides engineered equipment solutions to meet the many challenges of feeding and discharging product for IQF freezer tunnels, impingement tunnels, spiral freezers, carton freezers and other freezer solutions manufactured by our parent company FPS.

Together we can incorporate all of the required equipment into a turnkey end to end solution including engineering, manufacture, controls and installation to optimize the freezing process with an integrated solution specific to our customers' needs.



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