TRI-MACH

Group Inc.

Your One Stop Solution Provider

Millwrighting | Electrical | Stainless Steel Fabrication | Design Engineering | Custom Machining | Automation

Focused on **food safety** through innovation and quality equipment manufacturing

Our Mission is to Create an **IMPACT**

Integrity
Carry out all tasks with complete dedication to excellence and food safety.

Motivation
Encourage our people to explore new practices and technology to foster innovation and maintain a competitive edge.

Professionalism
Uphold the highest standards of quality in everything we do.

Attitude
Maintain a positive approach demonstrating respect and fairness towards our associates, clients, the community and environment.

Commitment
Dedicated to delivering maximum value and responsive service to our clients.

Teamwork
Work in partnership with our customers to achieve the highest level of success.

About Tri-Mach Group Inc.

Tri-Mach Group Inc. has become an industry leader in the food, beverage and personal health care industries. Located in Elmira, Ontario, Tri-Mach Group Inc. is a full service, multi-trade solution provider for all of your manufacturing, facility upgrade and integration needs.

We are committed to providing our customers with the best-in-class service in Millwrighting, Electrical, Stainless Steel Fabrication, Design Engineering, Custom Machining and Packaging Automation. Our experienced management team and trades people are passionate about what they do and their top quality craftsmanship is reflective of this passion.

The Tri-Mach Group Inc. name is built on dependable service, hard work, dedication and the innovation required to meet the demanding challenges our customers face. Our reputation is the key to our ongoing success, working locally, nationally and internationally.

Associations

3A	3A Sanitary Standards Inc.
AMI	American Meat Institute
CFIA	Canadian Food Inspection Agency
CSAO	Construction Safety Association of Ontario
CWB	Canadian Welding Bureau
ECAO	Electrical Contractors Association of Ontario
ESA	Electrical Safety Authority
GTFC	Guelph Food Technology Center
TSSA	Technical Standards & Safety Authority

Certifications

Aerial Lift & Articulating Lift
Confined Space
Fall Arrest
First Aid
Forklift
HACCP
Lock Out
Scissor lift
WHMIS
WSIB

The Tri-Mach Group Inc. Food Safety Program

We are number one in the industry for a good reason: We have been developing the most sanitary and food safe equipment since 1985. Through our Food Safety Program, we ensure that all safety precautions and measures are not only met but exceeded, giving you and your customers peace of mind.

Food safety guidelines are an integral part of our policies and procedures and they are reviewed on a regular basis to ensure compliance with the latest food safety directives.

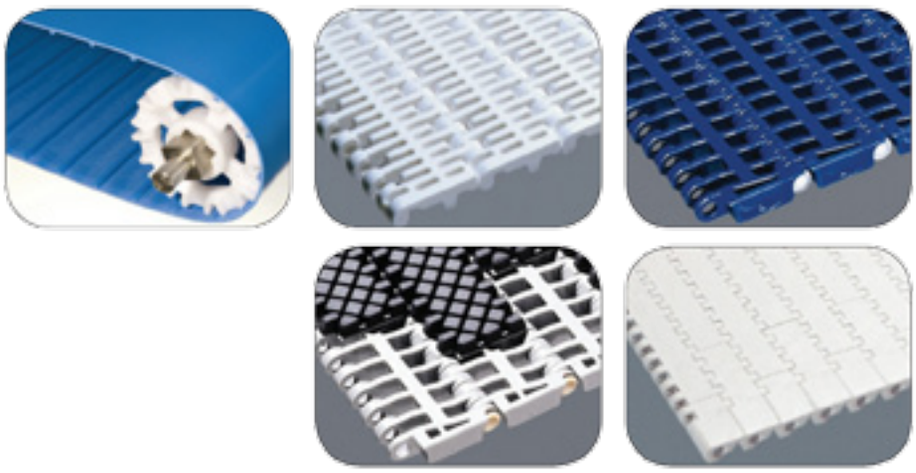
Conveyors

Tri-Mach Group Inc. is a leader in manufacturing custom sanitary conveying systems for the food, beverage and personal health care industries. We build to your specifications from concept to finished product. Our food grade conveyors meet and exceed the highest standards in health and safety requirements for all areas of food processing.

General Design Specifications

- Constructed using all grades of stainless steel (304, 304L, 316)
- All welds are continuous and smooth, free from burrs and pits
- Belting suited to application
- Stainless steel gearboxes and motors
- Stainless steel or fiberglass enclosures
- AC or DC drive controls
- Fixed or variable speed
- All systems are fully wired and tested

Belt Types



- Friction Drive
- Plastic Modular
- Rope Belting
- Table Top
- ThermoDrive®
- Urethane Flat Top
- Wire Mesh
- and many more

Conveyor Types:

- Accumulation
- Bottling / Tabletop
- Bucket Elevator
- Bulk Handling
- Deboning
- Elevator
- Gravity Roller
- Incline / Decline
- Laning / Single Filers
- Metal Detectors
- Metering
- Multi-Tiered
- Over Head Rail
- Pace
- Packaging
- Powered Roller
- Radius / Curve
- S-Conveyors
- Spiral
- Straight
- Transfer
- Trim
- and many more

built with
EVER-KLEEN®
technology

The Ever-Kleen® Conveyor System Advantages:

- Tool-less design allows conveyor to be disassembled in minutes for easy sanitation
- All stainless steel angle frame construction (no hollow tube)
- Wash through / hose through frame eliminates potential bacterial harborage areas
- All conveyor components constructed using food approved UHMW-PE, white or blue
- Rollers, side guides and wear strips are removable to allow for thorough sanitation
- All mounted components are stood off the frame
- All stainless steel sanitary foot pads and/or stainless steel castors
- Self-draining support frame eliminates standing water
- Customized to meet your specific requirements using AutoCAD®/Inventor® technology
- Suitable for any type of belting
- Complies with AMI, 3A, HACCP, NSF, GFSI Standards and other food safety directives
- We can modify your existing conveyor or upgrade sanitations

Optional CIP Spray Bar System

- Allows cleaning of the belt without disassembling conveyor
- Quick connect cleaning port eliminates the need for tools
- Prevents bacterial growth on belt surface
- Increases productivity by reducing sanitation downtime

As Easy As **1-2-3**!

Our Ever-Kleen® Conveyor Systems disassemble within minutes, without the use of tools, providing increased productivity and the highest level of food safety.

Fully Assembled

1 Flip-up ends to release belt tension

2 Slide belt off & remove UHMW components without the use of tools

3 Completely disassembled down to the stainless steel frame

Optional Lift Bar

- Ideal for conveyor lengths 20' or longer
- Eliminates the need to remove the conveyor belt for sanitation
- Allows easy access to all conveyor components
- Reduces downtime and increases productivity

Platforms

Our Ever-Kleen® Platforms are manufactured with the highest quality craftsmanship to meet and exceed CFIA and Ontario Building Code standards. Designed to address and solve health and safety concerns, our Ever-Kleen® Platforms can be customized to suit any application.

Our Ever-Kleen® Platforms are built using stainless steel for optimal sanitary construction. Platforms are built with raised decking, which eliminates sandwich points and reduces bacterial harbourage areas. Pitched to a central drainage point, the Ever-Kleen® Platform ensures no excess liquid is allowed to pool along platform edges.

Our Ever-Kleen® Platforms can be utilized for a wide array of applications such as multi-head scale systems, storage and to increase manufacturing capacity. The platforms can also be incorporated with new or existing production lines to best suit your needs.

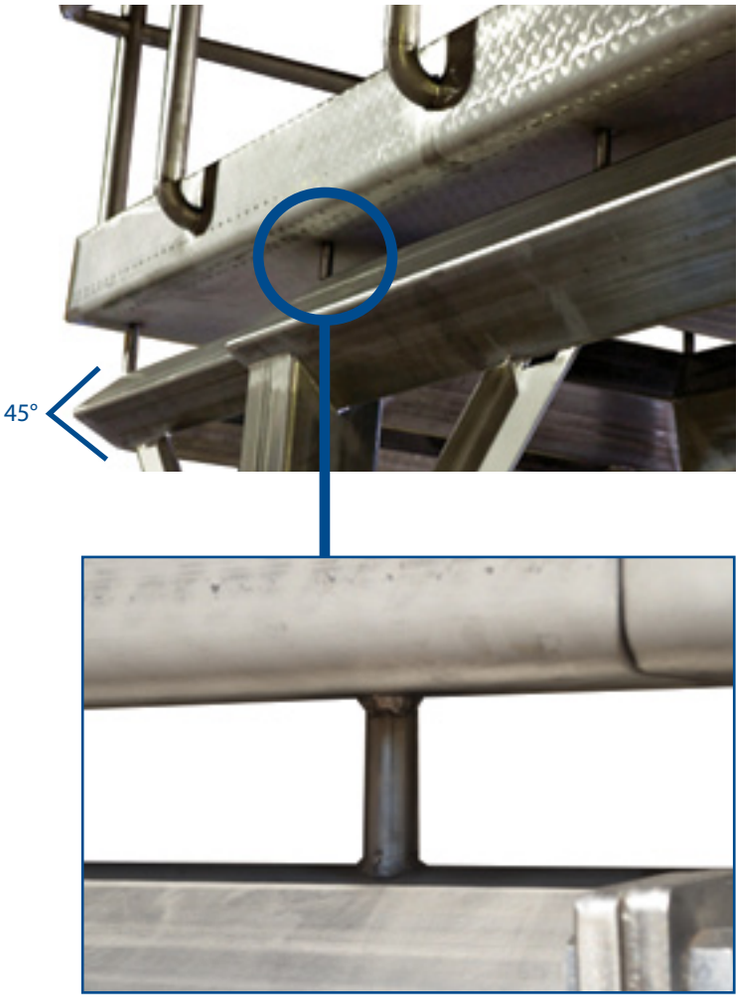
Already have an existing platform? We can modify your existing platform to improve your sanitary and food safety requirements.

built with EVER-KLEEN® technology

Ever-Kleen® Technology

- All stainless steel construction
- 1/4" formed checker plate decking
- Continuous sanitary welds
- Frame is constructed on a 45 degree angle to reduce harbourage areas
- Deck is raised from the frame
- Platform is pitched to a central drainage system eliminating standing water
- Scale component wash stations with a separate drainage system
- Complies with latest food safety directives for cleaning
- Assembly and installation provided

Frame is constructed on a 45° angle eliminating standing water



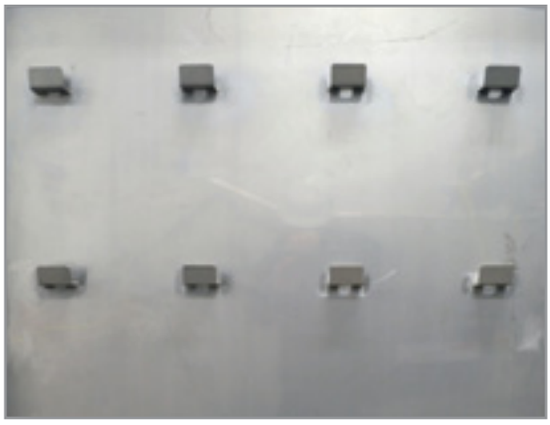
Raised decking prevents potential bacterial harbourage areas

Platform Types

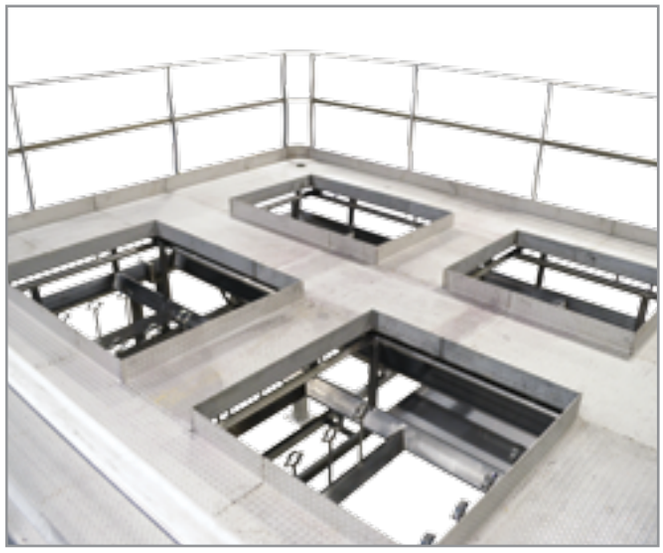
- Catwalks
- Crossovers
- Mezzanines
- Multi-Head Weigh Scales
- Operator
- Service/Maintenance
- Stiles
- Walkways
- and many more

Options

- I-Beam Design Available
- Scale Head Wash Station
- Under Stairs Drip Pan Available

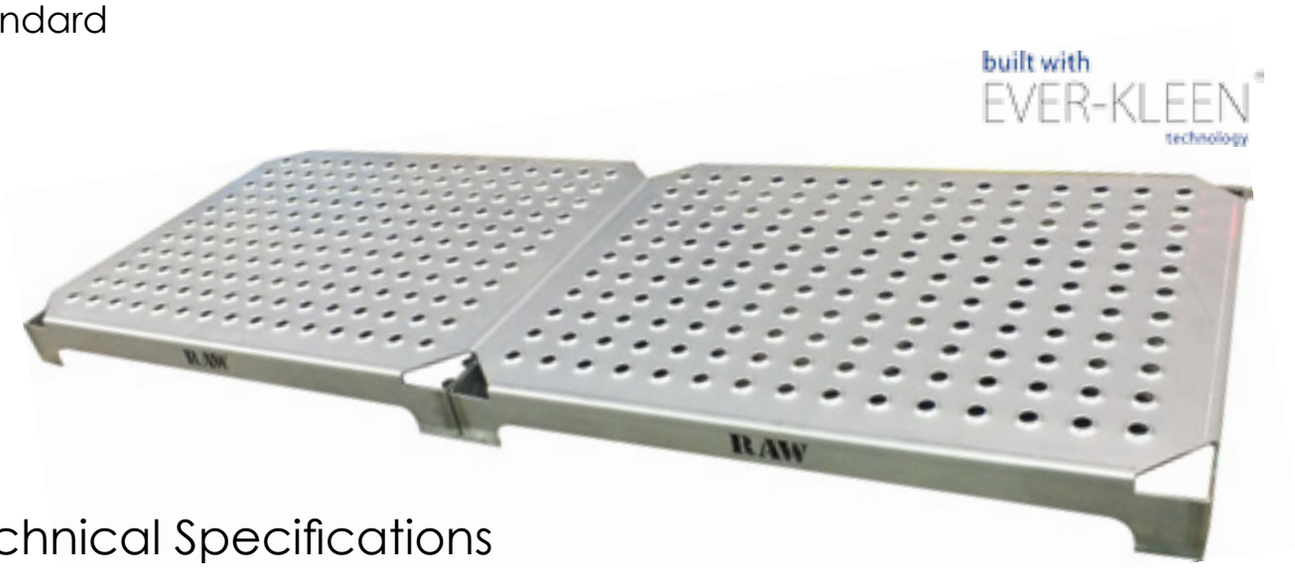


Scale head wash station for easy sanitation



Ergonomic Stands

Standard



Technical Specifications

- All stainless steel construction
- Open hole grip surface
- Dimension: 18″ L x 24″ W x 2.5″ H
- All welds are continuous and ground smooth
- Support bracket on legs for durability
- Option: Stands can be labeled to avoid cross contamination

Features & Benefits

- Stands are stackable to allow employees to work at proper ergonomic height
- Stacking height 2″ increments
- Slip resistant decking
- Stand is flexible for standing comfort
- Sanitary design is easy to clean

Single Cart

- Cart allows for storage and easy transportation of stands
- Stainless steel construction
- Swivel, lockable stainless steel casters
- Holds 10 stands

Ergonomic Stands

Tapered

built with EVER-KLEEN technology

Technical Specifications

- All stainless steel construction
- Open hole grip surface
- Dimension: 18" L x 24" W x 5" H
- Wash through connecting prongs
- All welds are continuous and ground smooth
- Option: Stands can be labeled to avoid cross contamination

Features & Benefits

- Stands are stackable to allow employees to work at proper ergonomic height
- Stacking height 2.5" increments
- Slip resistant decking
- Stand is flexible for standing comfort
- Sanitary design is easy to clean
- Side handles for easy transportation

Dual Cart

- Cart allows for storage and easy transportation of stands
- 304 stainless steel angle construction
- Swivel, lockable stainless steel casters
- Holds 20 stands

Electrical

Tri-Electric Solutions Ltd., division of Tri-Mach Group Inc. specializes in design, construction, service and maintenance in the food, beverage and personal health care industries.

From electrical installations, power upgrades, equipment repairs, CSA inspections, panel design, preventative maintenance programs, Tri-Electric Solutions Ltd. has the knowledge and experience to handle all your electrical needs.

Offering 24/7 emergency service support, our team is fully equipped to ensure we get your production up and running quickly and efficiently.

TRI-ELECTRIC SOLUTIONS LTD.

Electrical Division of Tri-Mach Group Inc.

Our Services Include:

- Turn-key line and equipment installations
- Facility line relocations
- Power distribution systems
- Plant automation
- Robotics and systems integration
- PLC programming, integration and testing
- Troubleshooting power equipment
- HMI graphic design
- Lighting installation, upgrades and repairs
- Equipment repairs and control wiring
- CSA inspections
- Plant shutdowns and maintenance coverage
- Interlocks and safeties

Control Panels

- Stainless Steel
- Mild Steel
- Fiberglass

Options

- HMI
- PLG
- Relay
- Remote I/O
- Servo
- Solenoids
- VFD

ECAO ELECTRICAL CONTRACTORS ASSOCIATION OF ONTARIO

TSSA TECHNICAL STANDARDS & SAFETY AUTHORITY

Electrical Safety Authority

Millwrighting

Construction and Industrial

We do it all – from machinery upgrades to turn-key plant installations, we are your one stop solution provider.

Our certified millwrights and welders have earned a reputation for being the best in the industry. With many years of experience, we have a clear understanding of our customer's needs. Whether you are in the food, beverage or personal health care industries, we have the expertise and knowledge to ensure your needs will be met.

We are very meticulous about our work, but also about your schedule. We will complete your project on time or ahead of schedule.

Our millwrights are available 24 hours a day, 7 days a week.

Our Services Include:

- Turn-key Line Installations
- Facility and Line Relocations
- New Equipment Integration & Process Improvements
- Smokehouse Installations
- Processing & Packaging Line Modifications
- Sanitary Process Piping
- Overhead Rail Installations
- Machine Repairs, Rebuilds, Retooling & Upgrades
- Preventive Maintenance Programs & Qualified Maintenance Coverage
- Pre-Start Health and Safety Review (PSR) Equipment Improvements

Machining

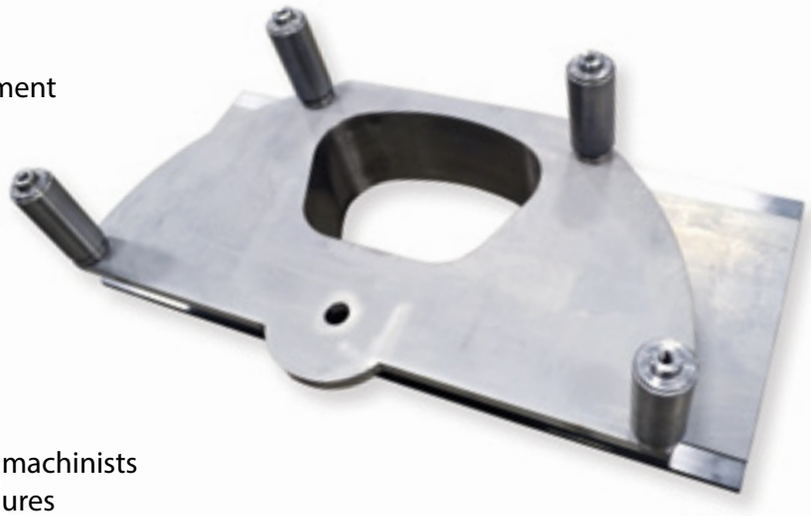
In our fully-equipped machine shop, we complete customer specific projects that demand an eye for detail and minute precision. Larger projects are completed in collaboration with other Tri-Mach Group Inc. divisions such as Fabrication, Engineering, Electrical and Millwrighting.

Production and Machining

Our expert machinists have vast experience with a wide range of materials and use the latest technologies in lathes and milling machines. Their knowledge and expertise allow them to create custom components for any equipment in the food, beverage or personal health care industries.

These Include:

- Parts for repair of machinery and/or equipment
- Prototypes, jigs, fixtures and tooling
- OEM parts
- Parts for stock

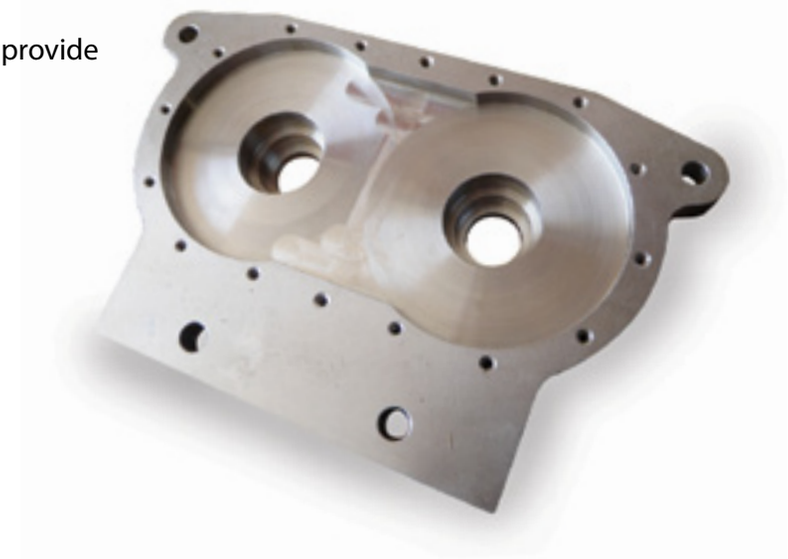


Quality Assurance

Product Quality is Our Top Priority

- We employ highly-skilled and experienced machinists
- We implement strict quality control procedures
- We carry out detailed inspections and testing
- We are experts in food grade materials

In addition to our commitment to product quality, we provide fast and reliable service to meet your needs.



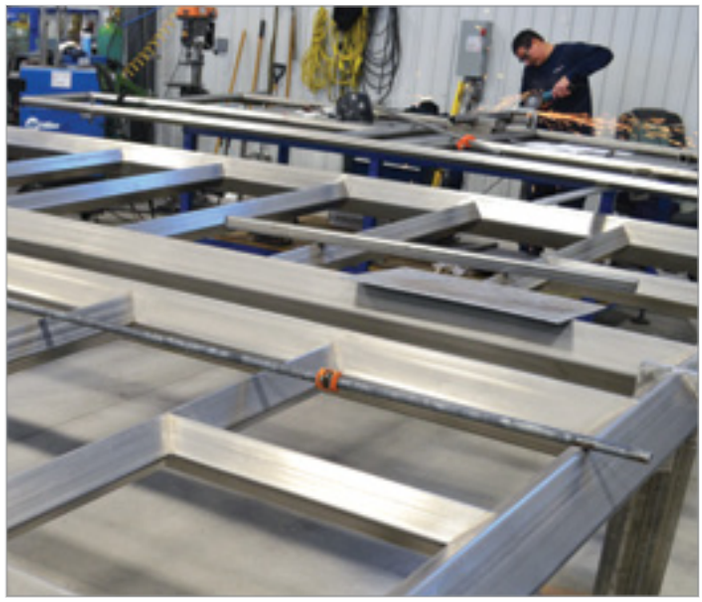
Fabrication

Stainless Steel Fabrication is the foundation of our success! Focused on the food, beverage and personal health care industries, Tri-Mach Group Inc. experts work closely with you to custom engineer and manufacture all your stainless steel needs. Committed to food safety, only non-ferrous materials such as aluminum and stainless steel are processed in our facility. This ensures that our products are not exposed to ferrous particles, preventing future rust and food contamination.

Whether you require a single component or a complete line layout, Tri-Mach Group Inc. has the proven expertise to deliver a project of exceptional quality. We use the latest in manufacturing technology and techniques to produce the highest level of quality products.

Our Capabilities Include:

- Bollards
- Chutes
- Conveyors
- Dumpers
- Equipment Guarding
- Ergonomic Stands / Safety Stands
- Hoppers
- Ladders, Stairways and Handrails
- Pipe Hangers
- Platforms and Catwalks
- Product Handling Solutions
- Prototypes
- Rail Systems
- Research & Development Projects
- Vats
- and other custom projects



Automation & Integration

Our services provide integration of high quality automation and control components with your new or existing processing line equipment.

Leveraging our industry knowledge and expertise, our engineering team and project management team define and select the control components required and deliver a custom engineered system.

Our common sense approach in designing simple solutions for complex problems is what sets us apart from our competition. Assisting with hardware specifications, design, programming, integration, testing, documentation and training, Tri-Mach Group Inc. implements solutions that are easy to use, maintain and modify that meet or exceed our customers' expectations.

Our Services Include:

- High speed automation
- Integration of SCADA systems
- Equipment automation
- Complete line synchronization and integration
- Panel engineering and design
- Drives and control systems
- PLC programming including HMI & other operator interfaces
- Wiring and troubleshooting
- Electrical schematics
- Installation and integration of robotic systems
- Re-tool lines for consolidation of SKUs
- Data acquisition
- Servo systems and integration expertise
- Systems communication

Our Capabilities Include:

- Allen Bradley
- Omron
- Panasonic
- Schneider Electric
- Siemens
- and many more

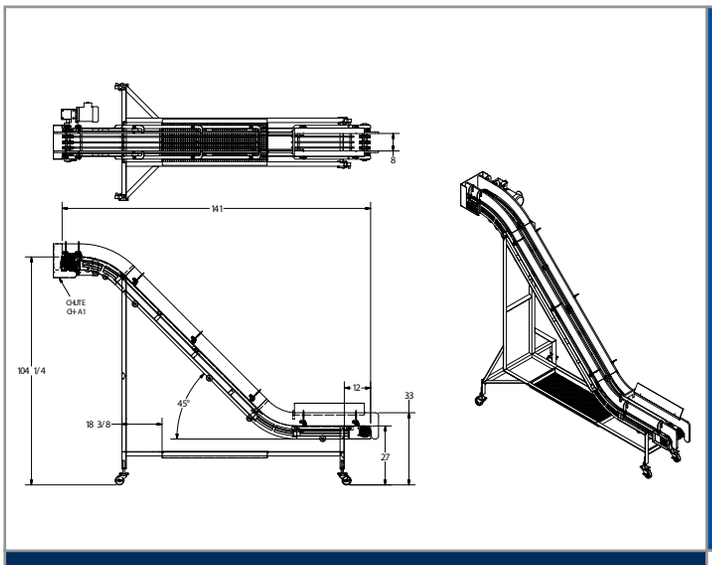
Design Engineering

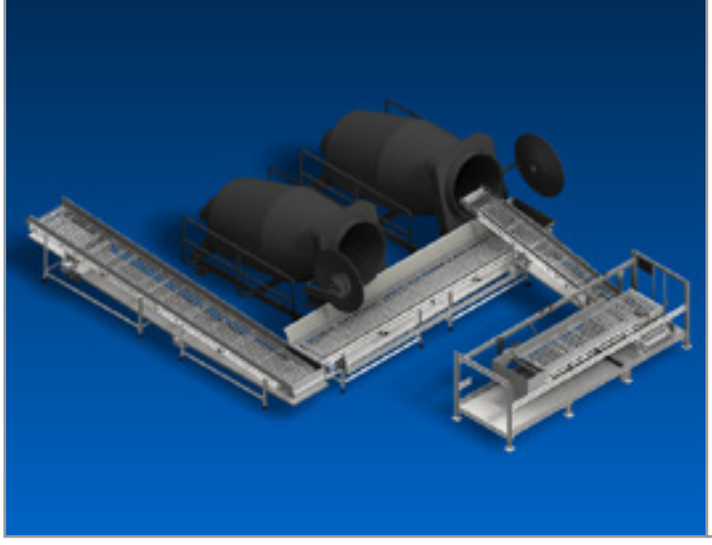
Our in-house design engineering team uses the latest Autodesk® Inventor® and CAD technology. Our designs are produced to meet and exceed CFIA, USDA, AMI and 3A sanitary design guidelines. Our design engineering specialists have years of design and field experience in the food, beverage and personal health care industries.

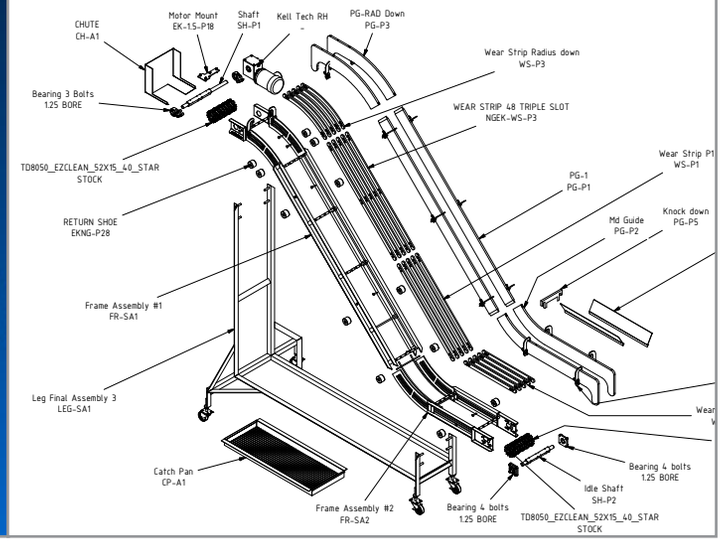
Our Capabilities Include:

- 3D Animations
- As-Built Drawings
- Conceptual Layouts
- Equipment Design
- Onsite Analysis / Investigation
- Process Flow & Line Layouts

Preliminary consultations are setup to define project needs. Tri-Mach Group Inc. brings the needed experience to assist you and avoid hidden costs. This facilitates a smooth transition from project conceptualization to finished product.



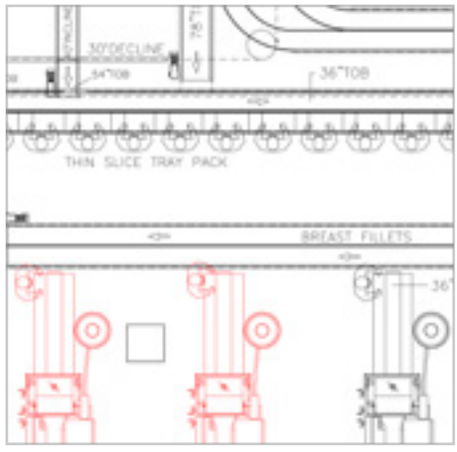




Audits

Processing Audits

Looking to streamline your current production process or expand your facility? A processing audit by Tri-Mach Group Inc. is an excellent first step. We begin with a complimentary discovery meeting at your facility. Following the discovery meeting, a quotation is prepared outlining layout options, potential costs, and timelines. A completed Processing Audit allows you to better determine the project feasibility and more confidently decide what your next step will be. The key benefits of a Tri-Mach Group Inc. Processing Audit are the low upfront investment and the accuracy and extent of the information that is provided. With our extensive processing experience, Tri-Mach Group Inc. provides a clear picture on how a new product line or a retrofit will impact your bottom line.



Food Safety Audits

In addition to Processing Audits, Tri-Mach Group Inc. can offer support and guidance through a Food Safety Audit. Whether new regulations have prompted changes in your facility or a government audit requires processing upgrades to be completed, Tri-Mach Group Inc. can provide you with one source for repairs, sanitary design upgrades, component changes and installations, and new equipment solutions.

Ministry of Labour Audits & Operator Health and Safety Standards

Similar to a Food Safety Audit, a Ministry of Labour Audit can present many issues and require changes that must be implemented quickly and accurately. Tri-Mach Group Inc. provides solutions for additional guarding, electrical safety interlocks, new ergonomic solutions and stands, pneumatic assist equipment, or any other custom change required.

Tri-Mach Group Inc. solutions correct the safety issue and make certain the sanitary design of the facility is maintained, ensuring that operator safety issues are not converted into food safety issues.

As Ministry of Labour guidelines and the Health and Safety Standards evolve, we are continually improving our designs to stay up to date with the most current regulations.

Project Management

Client Representation

Our team of Project Management Professionals offer vast experience in handling projects from concept to completion. Your dedicated Project Management Professional provides value added, onsite co-ordination of all your project activities.

From scheduling and contractor supervision, to safety requirements and prompt resolution of installation issues, we ensure our client's best interests are always our top priority.

Project Management Support

We also provide project management support through our certified Project Management Professionals.

Our years of project management experience enables us to offer advice on project goals, corporate strategies, resource management, as well as managing cross functional project teams, including international suppliers of equipment.

Our project management team has developed expertise built on industry knowledge and complimented by experience and knowledge of in-field project management complexities. Our Project Management Professionals will ensure that the completion of your project is on time and on budget!

Safety

Our certified Project Management Professionals manage all project health and safety, addressing issues in a timely and professional manner.

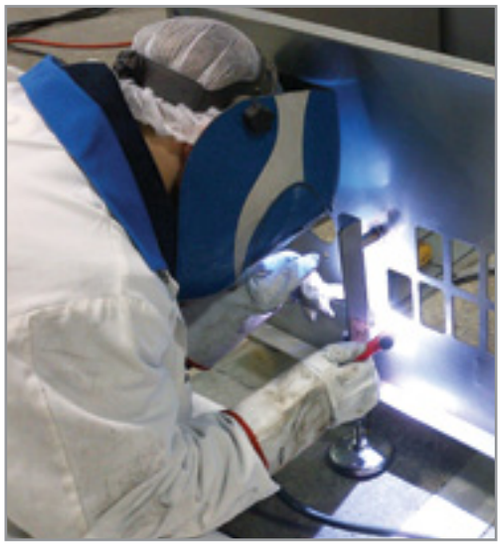
Before the start of any site activity, our Project Management Professionals conduct a hazard assessment of the work site, ensuring contractor, employee and environmental health, safety and security. Routine safety and environmental inspections ensure cleanliness and safety standards are maintained to the highest level.

Plant Maintenance

Tri-Mach Group Inc. has the experience and expertise to provide your operation with increased productivity and reduced downtime through a variety of plant maintenance solutions.

Our maintenance professionals offer 24/7 support and have been trained on all types of manufacturing equipment. In addition, each Tri-Mach Group Inc. employee has received in-depth HACCP and GFTC training and follow GMP food safety guidelines.

Regular maintenance can save time and money by reducing major repairs and unscheduled downtime, while also helping to prevent food contamination of food products. Tri-Mach Group Inc. can assist in ensuring your operation continues to run efficiently 365 days a year.



Our Services Include:

Maintenance Coverage

- Vacation Relief
- Staff Shortfall
- Production Line & Change Over

Preventative Coverage

- Equipment and Machinery Assessments & Programs
- Equipment and Personnel Maintenance Planning
- Scheduled Machinery Maintenance

Belt Repair

We are the exclusive on-site service provider for Intralox® belting in Ontario, Canada. We also supply conveyor belting for food grade and other applications.

We Supply and Install:

- Diamond Top
- Endless Polyurethane
- Flighted
- Flush Grid
- Friction Drive
- Mesh Top
- Non-Skid
- Open Grid
- Roller Top
- Scooped
- Table Top
- ThermoDrive®
- Urethane Flat Top
- Wire Mesh

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