

What we do.

ONLY

In everything ONYX Engineering applies itself to,
we challenge ourselves to raising the bar in that industry.

We distinguish ourselves by engineering lasting
relationships with our clients. ONYX grows through
these relationships and with that growth
our clients benefit from increased expertise
and passion in what we do.

We engineer
solutions.

ONYX

ENGINEERING

AUTOMATION

Complete turn key control automation is a core competency at ONYX. Our working relationship with clients, centre on adding value and expertise in developing very effective solutions to complex systems.

ONYX engineers' expertise spans many diverse industries in the field of machine control including:

- Equipment Specification and Bid Packaging
- Detailed Design and Panel Build
- PLC Programming
- Plant Floor Networking
- Advanced Diagnostics Programming
- Operator Interface Solutions
- Industrial Software Application Development
- Complete Turnkey Systems
- Application Training
- Safety Design to OSHA, ANSI and CE standards

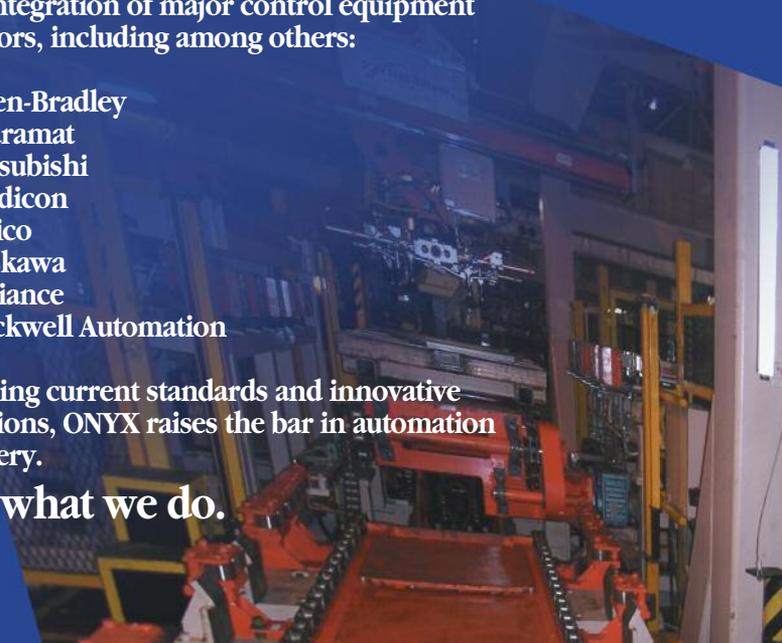
ONYX ensures installation of all necessary safety systems including light curtains and lockouts up to category 4 where required. Safety is a serious matter that ONYX assures when implementing any project.

ONYX's level of expertise is exemplified through the integration of major control equipment vendors, including among others:

- Allen-Bradley
- Indramat
- Mitsubishi
- Modicon
- Unico
- Yaskawa
- Reliance
- Rockwell Automation

Utilizing current standards and innovative solutions, ONYX raises the bar in automation delivery.

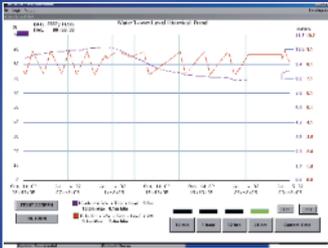
It's what we do.



ONYX

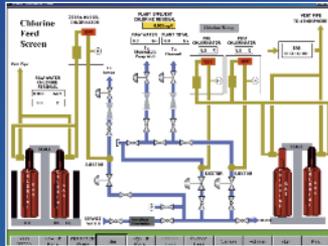
ENGINEERING

Reliable and sustained performance in water treatment results from superior application of automation and controls. ONYX has experience and insight in the replacement and implementation of Human Machine Interfaces (HMI). Coupled with reliable SCADA networks, ONYX delivers peace of mind by maintaining accurate records that allow trends to be developed and studied.



By understanding and implementing such tasks, ONYX has been able to supply and program new operating interfaces for a mixture of different companies. Introducing clients to solutions including

Wonderware RSView and Control Microsystem SCADPack Control System, effectively results in better control and observation of trends that occur in their system. The work and various integration applications performed by ONYX in the water treatment sector allows improved predictive maintenance and quality assurance.



It's what we do.

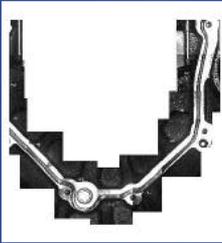
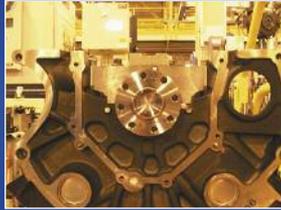
WATER TREATMENT

ONYX

ENGINEERING

Quality and manufacturing assurance is key to business growth. ONYX has developed a vision group to supply and install a variety of machine vision systems that brings high quality assurance to the manufacturing environment.

ONYX continually provides the finest and most refined technologies in order to keep clients on the leading edge of vision assurance. ONYX offers systems which inspect for product defects, and report the results to an information system or HMI. Ethernet and discrete connectivity allows the vision systems to interface with existing controls including PLC's or other computer interfaces.



Vision systems may also involve inspecting parts for correct components and their placements. Using RF technology, as one option, ONYX is able to fully design, supply, and install testing stations, which remove and/or sort parts that do not comply

with pre-determined manufacturing standards.

It's what we do.



VISION SYSTEMS

ONYX

ENGINEERING

ONYX develops complete, automated solutions for various press applications and their surrounding systems, including numerous tasks dealing with press controls and brake/clutch arrangements.

Our list of clients include CAMI, Chrysler, Ford Motor Company, Tower, Komatsu America Industries, Schuler, S.E.T. Enterprises, and Magna Corporation.

Various Press Control solutions include:

- Lube Control Systems
- Operator Safety
- ADC Recipe Management
- Digital Rotary Switches
- Main Motor Drives
- Destack Feeders
- Uncoilers
- Pilers



By applying servo motion and control systems expertise together with knowledgeable press experience, tightly integrated associated equipment is achieved:

- Loading/Unloading Equipment
- In-Press Transfers
- Die Lifter Stations
- Inter-Press Shuttles

Press controls are designed and commissioned with proven methods as well as available innovation allowing ONYX to further advance and improve the quality of the system. ONYX has established reduced cycle times, increased output, greater efficiency, and an enhanced changeover capability on systems it has re-fit. By streamlining processes and integrating newly designed automation, ONYX will continue to deliver optimum performance and reliability to its clients.

It's what we do.

PRESS CONTROLS

ONYX

ENGINEERING

ONYX ensures a knowledgeable background and competence in Materials Handling. As with many ONYX applications, Material Handling spans various industries and is frequently involved in any automation project. Material Handling requires as much consideration as any other component in your system. Many conveyor



systems and material transporting concepts are used in most automated processes.

The Material Handling group at ONYX has expertise in all Materials Handling aspects, including motors, roller conveyors, aggregate conveyors, and belt conveyors. The engineering design and field teams are in contact with these concepts and ideas on a daily basis.

With the experience acquired over the years, ONYX ensures the best quality, highly safe and effective, most reliable, and cost efficient Material Handling system available.

It's what we do.

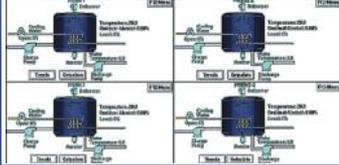
MATERIAL HANDLING



ONYX

ENGINEERING

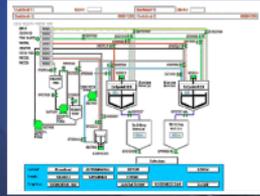
ONYX has a deep knowledge base in the Food and Beverage industry, having completed a number of major projects for food and beverage producers including Heinz, Richardson Foods, and Omstead Foods.



Applications include, but are not limited to, batching, recipe management, labeling, inspection, and packaging. Integration

of multiple lines, automating various packing stations, improving or replacing system sections, and re-designing existing but inefficient production lines are just some of the most common undertakings.

Moreover, ONYX has vast experience in creating, designing, supplying, programming, and installing, new and innovative lines that are compliant with company standards and which will remain efficient for years to come.



When dealing with raw products, and general goods produced for consumption, ONYX performs the necessary precautions and due diligence in every task it undertakes.

It's what we do.

FOOD AND BEVERAGE



ONYX

ENGINEERING

ONYX takes the manufacturing of control panels and electrical systems seriously. We have a dedicated manufacturing facility at our Windsor, Ontario property to accomplish this.

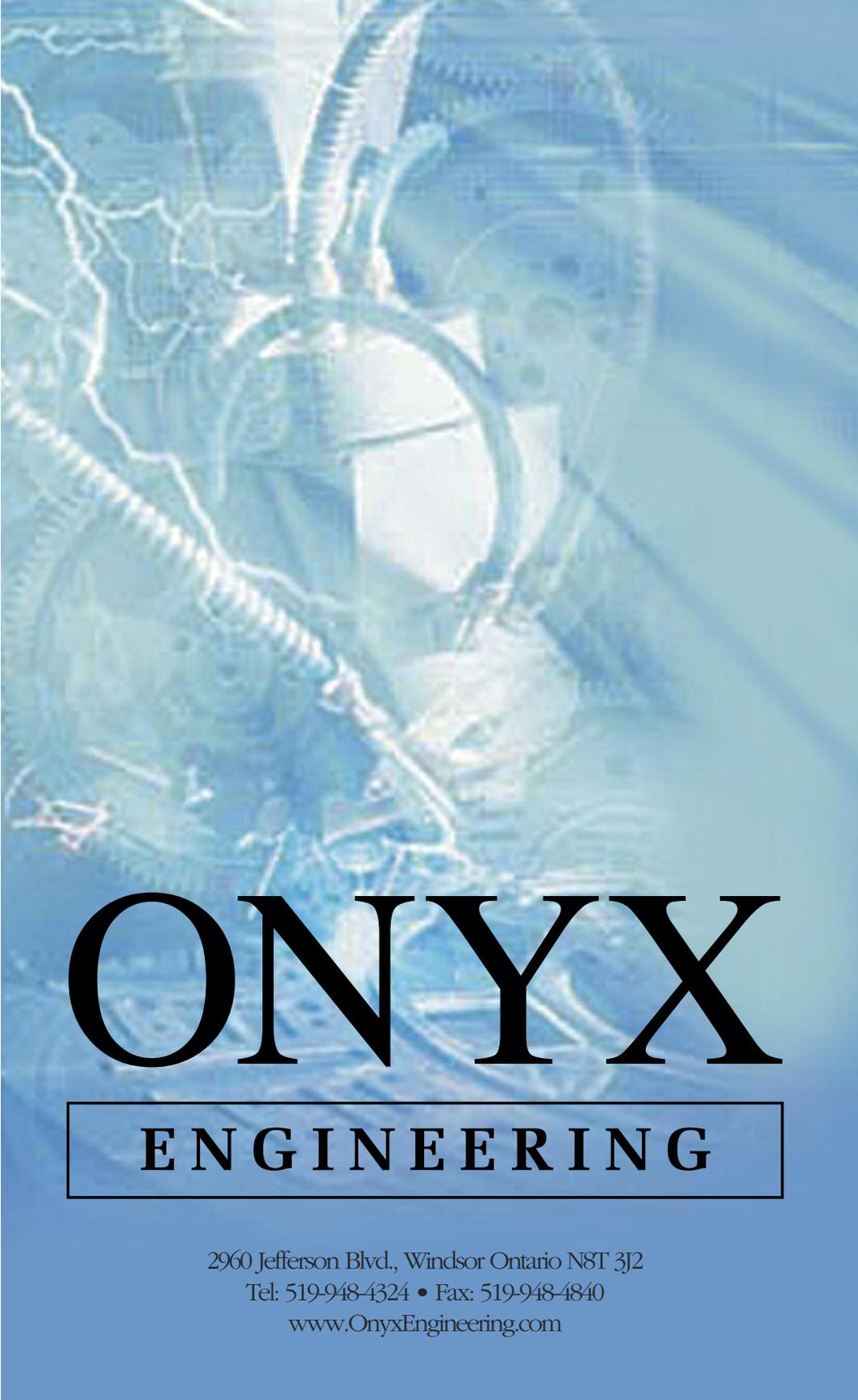
Our experienced panel build group has the capability and resources to build a wide variety of panels and systems including large multi-door control panels, stainless steel NEMA 4X process control panels and small junction boxes.

All of our panels go through a full inspection process prior to shipment. Panel Build - one more example of ONYX Engineering's commitment to excellence.

It's what we do.

PANEL BUILD





ONYX

ENGINEERING

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