

HTSE Inc.
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HTSE Inc. provides automation solutions to some of the world's largest food, beverage, pharmaceutical, chemical and manufacturing companies - our clients benefit from our high level of competency that is a result of our intense focus in these industries. This focus has allowed us to develop critical insights on control and automation issues unique to these industries – insights that result in solutions that are developed more quickly, perform more efficiently, and operate more reliably. With complete capability from automation services through to project management, we plan, develop, and build control systems that are key to the success of our clients. While each client's project is unique in its specific challenges, our goal in every case is to design and implement a cost-effective automation solution that achieves significant improvements in process efficiency while minimizing downtime.

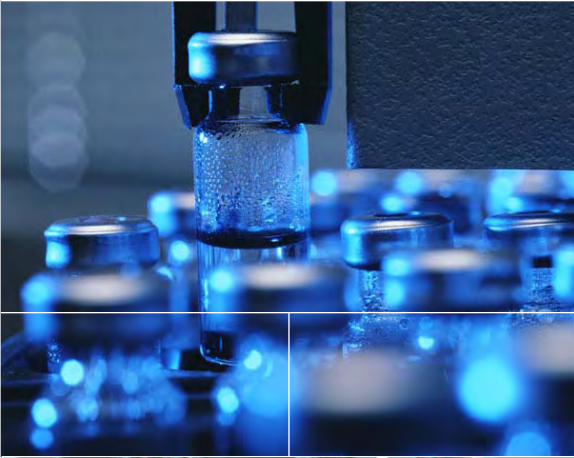
**Expertise developed by experience
across industries and institutions.**



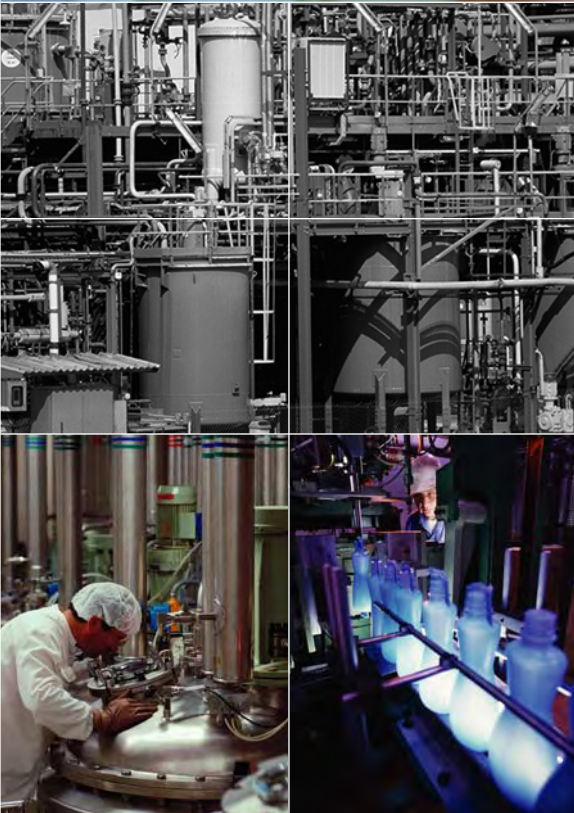
Our broad abilities and experience enable us to provide our clients the proven-best solutions in automation. Our engineering, operational, and construction knowledge allows us to predict, prevent, and correct problems across the full life cycle of a project and make HTSE Inc. the choice for controls engineering and consulting services.

Since 1989, with expertise developed by experience across industries and institutions and the completion of over 1000 projects for client corporations; our clients know us for our technical depth, fluency, foresight, and economy of use. The testament to our business is the success of our clients. In that, HTSE takes a partner's interest, investing our knowledge and energy as stakeholders.

We envision, engineer, and execute automation projects on time and on budget – project after project.



- Chemical**
- Food & Beverage**
- Manufacturing**
- Petrochemical**
- Pharmaceutical & Biotech**
- Pulp & Paper**
- Water & Wastewater**



- Process Automation
 - S88 / Batching Systems
 - Continuous Process Controls
 - Startup, Troubleshooting, and Commissioning
- Machine Control
 - Vision and Barcode
 - Packaging Line Integration/Automation
 - Startup, Troubleshooting and Commissioning
- SCADA, HMI, and Data Acquisition
- SAP / MES Plant Floor Data Integration
- Electrical Engineering
- Pharmaceutical / Regulated Industry Validation
- Project Management
- Information Technology and Infrastructure
- Industrial Control and Data Networks
- CAD

Although HTSE rigorously maintains vendor and technology independence, we have close partnerships with key component and systems providers – as well as extensive experience in designing solutions using their technologies

Our commitment to partner with world class technology providers enables HTSE Inc. to deliver world class automation solutions to our clients that answer their manufacturing needs. Each partner program strengthens our technical competencies and skills. They enhance the intellectual product that is truly the core value we provide our clients.

PLC Platforms

ABB
Allen-Bradley / Rockwell Automation
GE Fanuc
Modicon
Siemens
and many others...

DCS Platforms

ABB
Emerson DeltaV
Fisher Provox
Foxboro
Honeywell
Siemens

HMI, SCADA, and Batching Systems

ABB
Intellution
Rockwell Automation
Siemens
Wonderware

Motion Control

Vision Systems

Banner
Cognex
Siemens (formerly Acuity)
Systech

Barcode Verification

Cognex
Computer Identics
Datalogic
Microscan

Information Technology & Control Networks

Microsoft Certified in Networking
Infrastructure Solutions
Microsoft Certified Partner
Microsoft Certified Solutions Provider
Microsoft Certified Systems Engineers

CAD Services

AutoCad
MicroStation
Visio

PHARMACEUTICAL

HTSE provides automation and validation solutions to some of the world's largest pharmaceutical companies. We possess extensive knowledge and experience in the automation and validation of pharmaceutical process and packaging line control systems. We possess in-depth knowledge of regulatory compliance requirements for pharmaceutical processes and facilities.

CHEMICAL

For chemical manufacturers, HTSE provides complete automation and project support services. We have extensive experience in the control of chemical manufacturing processes using robust DCS and PLC control platforms. Our high level of knowledge in this area allows us to develop safe, rugged, robust, and reliable automation solutions that are an absolute necessity in chemical processing facilities.



**Doing it all - Engineering, Design, Consulting,
Commissioning from start to finish.**



With complete capability from consulting through to commissioning, we plan, design and build technically superior process and machine control systems that provide improved manufacturing performance, better yields and increased traceability. Our broad expertise, abilities and solutions provide the proven-best practices in automation for manufacturers. HTSE's operational and construction expertise make us better designers and consultants, able to predict, prevent and correct problems across the life cycle of your project.



FOOD/BEVERAGE

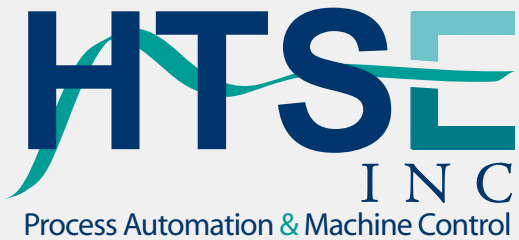
MANUFACTURING

From soft drinks and fruit juices to infant formulas, cereals and candy, HTSE has the requisite controls knowledge and experience in the manufacturing and packaging of food and beverage products. With extensive experience in food manufacturing and formulation, HTSE can provide process control solutions that reduce product variation, waste and process downtime.



Envision, engineer, and execute automation projects
on time and on budget – project after project.

HTSE's 10,000 sq. ft. office and lab facility in Portage, Michigan USA



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