HTE AUTOMATION
a division of HTE Technologies

• ROBOTS – INDUSTRIAL
• ROBOTS – COLLABORATIVE
• ROBOTS – MOBILE
• MACHINE VISION & SMART SENSORS
• ID MARKING, READING, PARTS TRACEABILITY
• AUTOMATION & MOTION CONTROL
• CONVEYORS & PARTS FEEDERS
• INDUSTRIAL PC, PLC, & HMI
• MACHINE SAFETY & GUARDING
• STRUCTURAL FRAMING ENCLOSURES
• ELECTRICAL ENCLOSURES & PANEL ASSEMBLY
• IIoT CONNECTIVITY – LOCAL & WIRELESS REMOTE
WHY HTE FOR ROBOTICS?

• Every discussion starts by fully understanding what you need to have happen with an identified task.
• HTE features robotic solutions using 5 distinct robotic technologies allowing us to optimally meet your application’s needs.
• Our team of application engineers is experienced at applying robots in untapped non-traditional applications.
• We integrate technologies for complete solutions using a broad selection of the equipment that surrounds every robot, enabling you to deal with a single supplier.

WHAT’S YOUR CHALLENGE?

Achieve Better Product Consistency
Optimize Very Long Milling Cycle
Free Talent Up for More Complex Tasks

No Space for Safety Caging
Eliminate Staffing Shortages
Eliminate Bottlenecks
Increase Product Quality
Reduce Scrap

WORK CELL ACCELERATION REVIEW

To maximize your productivity, flexibility, quality, and safety goals, we will conduct a complimentary work cell acceleration review in your plant.

Call Now To Schedule: 800.444.4831

Exceptionally small footprint requiring no permanent floorspace

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DEFINITIONS

**cobot** (koh-buh t, -bot), noun
A computer-controlled robotic apparatus that assists a human worker, as on an assembly line. word origin – co(llaborative) (ro)bot

**transportbot**, noun
A mobile, computer-controlled robotic apparatus that assists a human worker, as in logistical tasks. alt. Autonomous Mobile Robot. word origin – transport (ro)bot

**IIoT**, noun
Industrial Internet of Things, the use of Internet of Things (IoT) technologies in manufacturing. IIoT incorporates machine learning and big data technology, harnessing the sensor data, machine-to-machine (M2M) communication and automation technologies that have existed in industrial settings for years.

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**WHY COBOTS vs. ROBOTS**

- Unbeatable ROI of 6 months or less on many projects
- Level 4 Collaborative = Safe Working Environment
- Ultra-high degree of flexibility
- Unmatched interface simplicity
- Quickly and economically automate boring tasks
- Initial setup is easy
- Sets a defined work cadence for all workers on the same line
- Easily re-tasked between or during shifts
- High degree of E-O-A-T (End-of-Arm Tooling) flexibility
- Less space required – *rarely guarded*
- Reduce workplace repetitive action injuries

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**It’s all about**

ROI

ASK ABOUT THIS
TRANSFORMATIVE TECHNOLOGY
DELIVERING

3 to 6 MONTH ROI

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**Universal Robots**  Collaborative industrial robot that teams up with people outside of safety cages, and requires no expensive programming or integration. Empowering People is the focus of Universal Robots.

**Epson**  Industrial robots that offer super high precision, high speed, high performance, ease of use and highest industry value. Epson’s focus is on simplicity of use, as you will learn when viewing the EPSON RC+ Software

**Intelligent Actuator (IAI)**  Easy-to-Use Programmable Actuators (RoboCylinder), Multi-axis Cartesian Systems, Scara Robots, Servo Grippers

**Mobile Industrial Robots (MiR)**  Autonomous Mobile Robots for automation of internal transport and logistics solutions. Optimize workflows, increase productivity, reduce costs, all with a rapid ROI of less than 1 year
END-OF-ARM TOOLING & ACCESSORIES

**Robotiq** Rapid robot deployment with Robotiq’s plug and play end-effectors and remote monitoring of robot solutions

**Coval Vacuum Technology** Vacuum end-effectors

**Millibar** Tool changing solutions

**OnRobot** Plug and play end-effectors for Universal Robots

**ROEQ** Accessories for MiR autonomous robots

**Reiku** Cable Management and Protection Solutions

**Snapweld** Welding Solutions for UR Cobots

**Swivellink** Intelligently Designed Mounting Systems

**Vention** Modular application solutions for Universal RObots

CONVEYORS & PARTS FEEDERS

**Dorner** Conveyors for small, medium or large parts in modular and flexible configurations, precision and sanitary conveyors for food or pharma, heavy-duty industrial bulk, or precision handling requirements

**Asyril** Vibration feeders. Asyril adds platform structured surfaces, and backlit surfaces together with industrial vision and precision robotic technology to deliver a system that operates at optimal speed, accuracy, and flexibility.
MACHINE VISION & SMART SENSORS

**Cognex** 2D and 3D Machine Vision Systems, 12MP High Resolution, or Simple Sensor Inspection Systems, -Dataman Image-Based 1D and 2D Code Readers

**Balluff** Product Detection Sensors (Proximity, Photo-Electric, Ultrasonic, Laser), Linear Measurement, Light Array Measurement, and Encoder Systems

**Baumer** Vision, Presence and Distance Sensors, Rotary Encoders, Angle Measurement, I.D. and Image Processing

**Tri-Tronics** High-Speed, High-Resolution Fiber Optic Sensors, Color Sensors, General Purpose Optical Sensors

**Fraba** Absolute Rotary Encoders, Fieldbus Systems, Industrial Ethernet Protocols, Inclinometers, Non-contact Speed Sensors

**Heidenhain** Measurement and Control Technology for Demanding Positioning Tasks

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LIGHTING, LENSING, & FILTERING

**Moritex** Machine Vision Lenses and Lighting Systems

**Smart Vision Lights** Machine Vision Lighting and Filters

**Navitar** Precision Lenses for Industrial Vision Applications

**Edmund Optics** Precision Lenses for Industrial Vision

**Midwest Optics** Machine Vision Filters

**CCS Inc.** Machine Vision Lighting
ID MARKING – READING – PARTS TRACEABILITY

**Cognex** Dataman Image-Based Bar Code Readers, Camera-Based Optical Character Recognition, Handheld Bar Code Readers

**Balluff** RFID Systems, High Durability ID Tags, Inductive ID Systems

**LNA Laser Technology** Part Marking Fiber Lasers, Welding Lasers, Bare Lasers and Full Systems Available

**HTE Assembled Solutions** Custom Designed Laser Marking Stations Integrated Into Your Workflow, Custom Designed RFID Turnkey System Development, Training, Installation

MACHINE SAFETY & GUARDING

**ABB Jokab Safety** PLCs, Safety Light Curtains, Stop Time Analyzers, Non-contact Safety Sensors, Interlocks, Switches, Monitoring Relays, Safety Mats and Perimeter Guarding Systems

**Balluff** Robot-Based Limit Switches

**Parco** T-Slotted Aluminum Extrusion, Structural Framing, Grooved or Smooth Profiles, Kits, Full Assemblies, 3D Designer

**Wirecrafters** Machine Guarding Systems

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IIoT CONNECTIVITY & IN-PANEL PRODUCTS

**ABB Low Voltage Products**  Contactors, Starters, Disconnects, and Fuses

**Advantech**  Industrial PC, WEB-OP, HMIs, Communications Gateways, Managed and Unmanaged Ethernet Switches

**Balluff**  Industrial Cordsets, Active (Network) and Passive Sensor Interface Blocks, Non-contact Power and Signal Transmission, Power Supplies

**Murrelektronik**  Industrial Cordsets and Connectors, Active (Network) and Passive Interface Blocks, Power Supplies and Conditioners, Panel Interfaces

**MB Connect Line**  Ideas and Solutions for Remote Maintenance and Monitoring

**Wago**  Din Rail Terminal Blocks with Cage Clamp® Technology, Field I/O Systems, Programmable Network Interfaces, Power Supplies
ELECTRICAL ENCLOSURES & STRUCTURAL FRAMING

Rittal Systems  Industrial Enclosures (Free-Standing Modular, Wall-Mount, Junction Box, Stainless Steel)

Schaefer’s Electrical Enclosures  Standard and Custom Enclosures Including Stainless Steel, To Suit Your OEM Needs

Parco  T-Slotted Aluminum Extrusion, Structural Framing, Grooved or Smooth Profiles, Kits, Full Assemblies, 3D Designer

ENCLOSURE CLIMATE CONTROLS

AUTOMATION & MOTION CONTROL

**Mitsubishi PLC**  Programmable Logic Controllers, Safety Controllers – Stand-Alone or Rack-Mounted

**Mitsubishi HMI**  OIT, Soft GOT, PC Software

**Mitsubishi Servo**  Servo Systems, Motion Controllers, Servo Motors, Linear Motors

**Mitsubishi VFD**  Variable Frequency Drives – Fractional HP – 1,000+ HP

**Advantech**  Rugged Industrial PCs, Touch Screens, Touch Screen Computers, Ethernet Switches, Network Interface Adapters

**AMP (Applied Motion Products)**  Stepper Motor Drives, Two-Phase Hybrid Step Motors, Encoder-Feedback Stepper Drives, Integrated Drives + Motors

**Animatics**  SmartMotors: All-in-One Motor/Control Systems. Advanced Communication and Motion in an All-in-One Package

**Apex Dynamics**  Precision Planetary Gear Heads, Fast, Affordable, Precision, Straight and Right-Angle

**R+W Coupling Technology**  Precision Servo Couplings, Mechanical Torque Limiters, High Stiffness Torque Tubes and Jack Shafts

**Wago**  Programmable I/O to Support All Major Network Interfaces, Industrial PCs

**WorldWide Electric**  Affordable AC Induction Motors, DC Motors

**MECHANICAL ACTUATORS**

**Accu-Tech USA**  Smooth Acting, Precise and Long Lasting Linear Guides and Ballscrews

**Tolomatic**  Electric Linear Motion Control

**Isel Automation**  Linear Ball Screw and Other Slides

**Nook**  Linear Motion Systems
The HTE TECHTEAM is an engineering collaboration focused on delivering leading edge manufacturing solutions for maximizing factory throughput with the goal of increasing your global competitiveness.

OUR HTE TECHTEAM SERVICES

We provide you with comprehensive engineering skill sets and broad industry application experience earned over many years applying a broad range of technologies to industrial applications including:

- On-site discovery “Audit” walk-throughs in your production plant
- Cooperative “proof of functional success” automation project evaluation
- Robot specification, programming and implementation
- Robot life cycle warranty support, software upgrade assistance, new task integration
- Machine vision system application, verification and training
- Product traceability system application, verification and training
- Direct part marking sample processing
- Contract marking services
- PLC training and hands-on programming
- Technical skill training services
- Cooperative OEM design / build / program / test
- Collaboration services with specialty integrators
- Custom panel test and assembly
SUPPLIERS

ABB Low Voltage
ABB Safety
Accu-Tech USA
Advanced Illumination
Advantech
Animatics
Apex Dynamics
Applied Motion Products
Asyril
Azbil
Balluff Corporation
Baumer
Bison Gear
CCS Inc.
Cognex Corporation
Coval Vacuum Technologies
Dorner Conveyor
Edmund Optics
EMI Corp.

Epson America
Fraba
Fujinon
Heidenhain
IAI (Intelligent Actuator)
Intermec
Isel Automation
LNA Laser Technology
MB Connect
Metaphase
Millibar
MiR Robots
Mitsubishi Electric Automation
Moritex
Murrelektronik
Nabtesco
Navitar
Nook
OnRobot

Parco
Reiku
Rittal
Robotiq
ROEQ
R+W Coupling Technology
Schaefer’s Electrical Cabinets
Smart Vision Lights
Snapweld - ARC Weld
Spectrum Illumination
Swivellink
Tamron
Tolomatic
Tri-Tronics
Universal Robots
Vention
Wago
Wirecrafters
WorldWide Electric

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