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





TRANSFORM WORK-CELL PRODU

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.



Start with Proof of Functional Success

- Proper Load Sizing
- Identify & Meet Speed Requirements
- Select Optimal End-of-Arm Tooling
- Ensure Worker Safety

Ongoing Local Life-Cycle Support

- Warranty Support
- Software Upgrades
- New Task Integration
- On-Site Discovery "Audit" Walk-Throughs



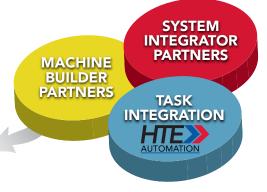




Free Talent Up for More Complex Tasks



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

CTIVITY WITH OUR AUTOMATION TECHTEAM

DEFINITIONS

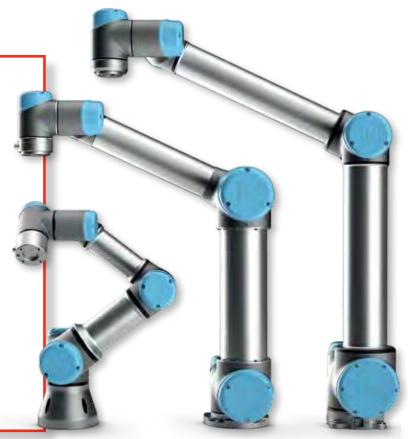
cobot [koh-buh t, -bot], noun A computer-controlled robotic apparatus that assists a human worker, as on an assembly line. word origin – co(llaborative) (ro)bot

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.



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

ASK ABOUT THIS
TRANSFORMATIVE
TECHNOLOGY
DELIVERING
THE CAGE!"

3 to 6
MONTH

It's all about

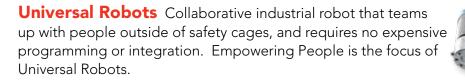
ROI





ROBOTICS







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



Precise Automation Automate processes that could never be automated before by working with collaborative robots, designed to work with people on an assembly line. Guidance Motion Controllers enable collaborative control to other robot configurations



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 (EOAT)



Robotiq Rapid robot deployment with Robotiq's plug and play end-effector solutions makes them the go-to choice for highly competitive manufacturers.



Coval Vacuum Technology Becoming the World's Leading Solution Provider of Vacuum Automation Technology

Reiku Cable Management and Protection Solutions

Swivellink Intelligently Designed Mounting Systems













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



Fortville Feeders Leading provider of custom-built feeder bowl systems, bulk storage hoppers, elevators and gondola systems, sound enclosures, escapements, tracking systems, and end-of-line mechanisms









MACHINE VISION & SMART SENSORS

COGNEX

Cognex 2D and 3D Machine Vision Systems, "Checker" Simple Image-Based Inspection Systems, Dataman Image-Based 1D and 2D Code Readers

BVLLUFF

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





Baumer

Passion for Sensors

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





LIGHTING, LENSING, & FILTERING



Moritex Machine Vision Lenses and Lighting Systems



Smart Vision Lights Machine Vision Lighting and Filters

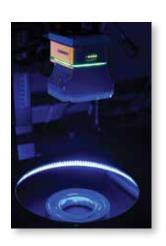




Edmund Optics Precision Lenses for Industrial Vision

Midwest Optics Machine Vision Filters

CCS Inc. Machine Vision Lighting





ID MARKING - READING - PARTS TRACEABILITY

COGNEX

BALLUFF

TEC<mark>HTE</mark>AM

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,









MACHINE SAFETY & GUARDING



BVLLNEE

ABB Jokab Safety PLCs, Safety Light Curtains, Stop Time Analyzers, Noncontact 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







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

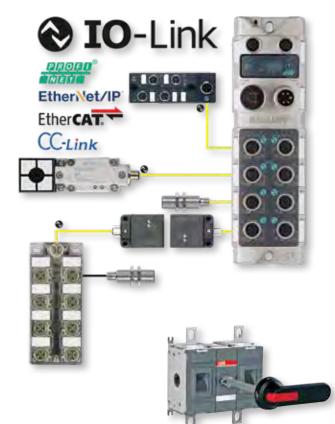


MB Connect Line Ideas and Solutions for Remote Maintenance and Monitoring



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)

















ENCLOSURE CLIMATE CONTROLS



Rittal System Climate Control Roof Mounted, Top Mounted, Wall-Mounted, Re-cooling Systems, Air / Water Heat Exchangers, Water / Water Heat Exchangers









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



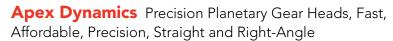
Advantech Rugged Industrial PCs, Touch Screens, Touch Screen Computers, Ethernet Switches, Network Interface Adapters



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





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

Azbil
Balluff
Baumer
Bison Gear
CCS Inc.
Cognex
Coval

Dorner Conveyor Edmund Optics

EMI Corp. Epson Robots **Fortville Feeders**

Fraba Fujinon Heidenhain

IAI (Intelligent Actuator)

Intermec

Isel Automation

LNA Laser Technology

MB Connect Metaphase Midwest Optics MiR Robots

Mitsubishi Electric Automation

Moritex

Murrelektronik

Nabtesco Navitar Nook Parco **Precise Automation**

Reiku Rittal Robotiq

R+W Coupling Technology Schaefer's Electrical Cabinets

Smart Vision Lights
Spectrum Illumination

Swivellink Tamron Tolomatic Tri-Tronics

TSII Connectors
Universal Robots

Wago

Wirecrafters

WorldWide Electric



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ST. LOUIS, MO

2021 Congressional Dr. St. Louis, MO 63146 314.731.4444

SPRINGFIELD, MO

4319 S. National Ave. Springfield, MO 65810 417.724.2231

DECATUR, IL

2415 N. 22nd St. Decatur, IL 62526 217.615.4440

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