

HTE AUTOMATION

a business unit of HTE Technologies



- **HTE VALUE-ADDED SERVICES**
- **AUTOMATION & MOTION CONTROL**
- **PLCs, HMI, & INDUSTRIAL PCs**
- **MACHINE SAFETY & GUARDING**
- **MACHINE VISION**
- **BARCODE READING, PARTS TRACEABILITY & ID MARKING**
- **SMART SENSORS**
- **ROBOTS – COLLABORATIVE, MOBILE, & TRADITIONAL**
- **CONVEYORS & PARTS FEEDERS**
- **ELECTRICAL ENCLOSURES & PANEL ASSEMBLY**
- **IIoT CONNECTIVITY – LOCAL & WIRELESS REMOTE**
- **STRUCTURAL FRAMING**



VALUE-ADDED SERVICES

We deliver the tailored solutions you need using our comprehensive manufacturing engineering skills honed over decades of practical in-plant experience.



CONTROLS PROGRAMMING

- Streamline and/or upgrade your machine programming

COBOTS, ROBOTS, & AMR INTEGRATION

- Robot proof-of-concept testing to final implementation
- In-plant Autonomous Mobile Robot (AMR) system discovery, planning, specification & implementation w/JMP Solutions



VISION INTEGRATION

- Development and implementation of turnkey barcode traceability and/or machine vision solutions



CERTIFIED TRAINING

- Universal Robots Authorized Training Center
- Control system & component training
- Barcode ID systems and machine vision training



COMPONENT ASSEMBLY

- Custom electrical control cabinet preassembly
- Control panel assembly & wiring
- OEM device sub-component assembly



PROOF OF CONCEPT

- Collaborative program to prove out your ideas

ASSEMBLED SOLUTIONS

- Customized products built-to-order

IN-PLANT FIELD SERVICE

- When you need engineering skills you don't have on-staff, our experienced techteam can help

OEM PARTS KITTING

- Reduce line-items ordered and take delivery of one item





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





ROBOTICS



Universal Robots World's #1 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 Worlds #1 SCARA robot and traditional robots that offer high precision, speed, performance, ease of use, and now with force guided sensing and optional machine vision - the highest industry value. World's only single source integrated vision guided 3D picking system.



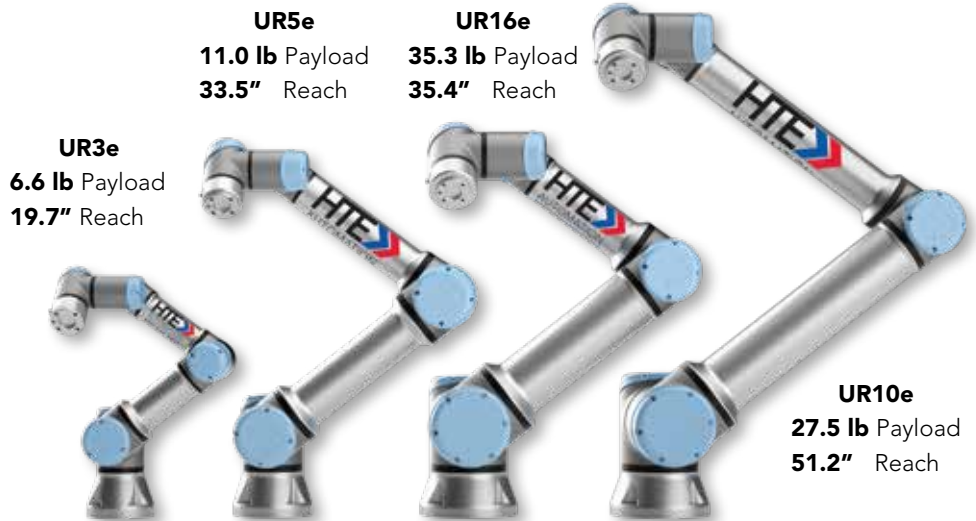
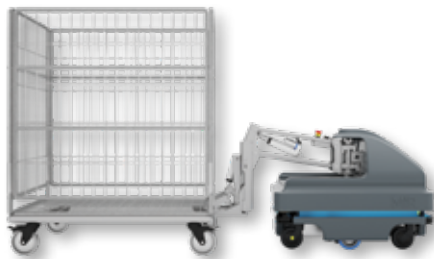
Mobile Industrial Robots (MiR) Autonomous Mobile Robots for automation of internal transport and logistics solutions. Optimize workflows, increase productivity, reduce costs, all with a rapid ROI of 8-16* months.



ROEQ Productivity platforms for MiR autonomous robots including pallet loading, trailer, and cart modules.



ActiNav
Autonomous
Bin Picking

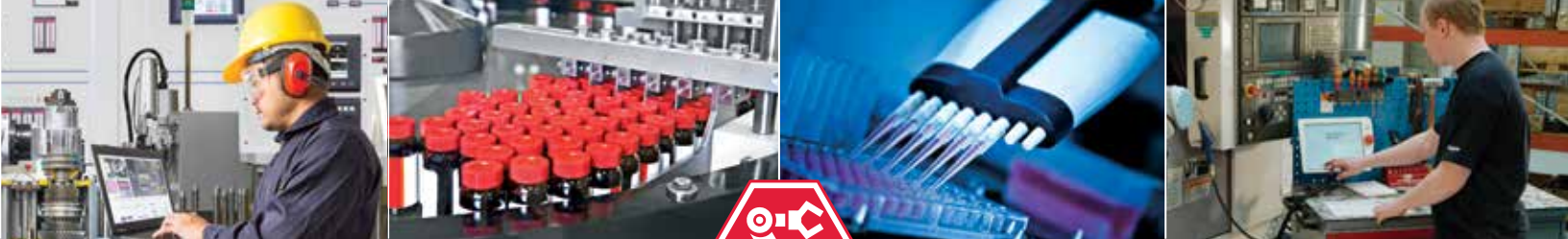


**All-In-One
6-Axis Robots
Priced Under
\$14,000**



**All-In-One
SCARA Robots
Priced Under
\$9,500 - 13.2 lb
\$7,500 - 6.6 lb**





END-OF-ARM TOOLING, ACCESSORIES & ROBOTIC SYSTEMS



Robotiq Rapid robot deployment with Robotiq's plug and play end-effectors, multi-axis force and torque sensors, palletizing solutions, and remote monitoring of robot solutions



ATI Industrial Automation Engineering-based developer of robotic accessories and robot arm tooling

Coval Vacuum Technology Vacuum end-effectors



OnRobot Tool solutions for collaborative robot applications

SmartShift Robot tool changer

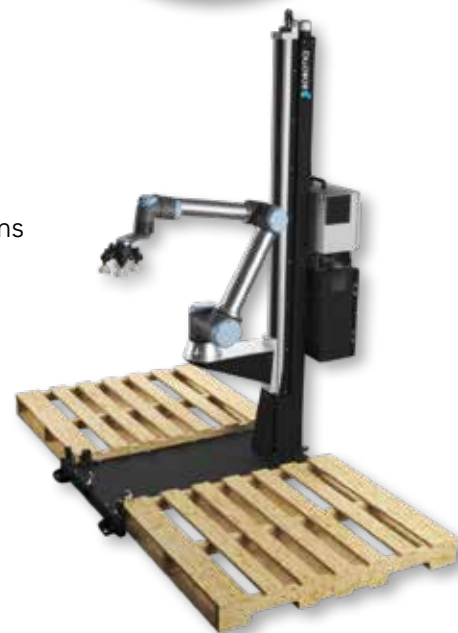


Soft Robotics Intelligently Designed Mounting Systems

Swivellink Intelligently Designed Mounting Systems



Vention Robotic 7th Axis Solutions



MECHANICAL ACTUATORS



Tolomatic High-force electric linear actuators, all with long-lasting standard planetary roller screws

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

Intelligent Actuator (IAI) Easy-to-use programmable actuators (RoboCylinder)





CONVEYORS & PARTS FEEDERS



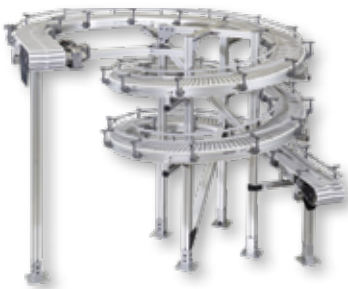
Dorner Conveyors for many manufacturing tasks including: Accumulation, Depositing & Rejects, Diverting & Sorting, Elevation Change & Line Egress, Indexing & Positioning, Inspection & Testing, Merging, Product Flow & Control, Product Handling Systems. Each of these functions could be accomplished according to standards for food, pharmaceuticals, or general industrial.



Asyrl Vibration feeders. Asyrl 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.



Epson Vibration feeders with software integrated to Epson's robot software.



FlexMove Helix Conveyor

Precision Move Pallet System

Ascending Spiral



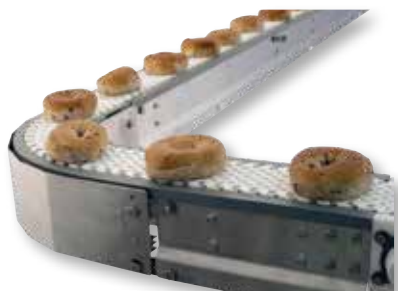
AquaGard Metal Chain Wire Mesh



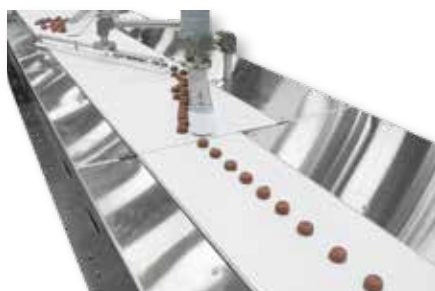
Backlit Belt



AquaPruf Vertical



Sanitary AquaGard



Chicaning Food Grade



MACHINE SAFETY & GUARDING

PILZ
THE SPIRIT OF SAFETY

Pilz Programmable Safety Controllers, Safety Relays, Safety Light Curtains, Emergency Stops & Pilot Devices, Stop Time Analyzers, Non-contact Safety Sensors, Interlocks, Switches, Monitoring Relays.

DATALOGIC
THE VISION IS YOURS

Datalogic Safety solutions for automation include products and components that help minimize the danger for worker and machine.

ABB

Balluff Balluff safety solutions for automation include products and components that help minimize the danger for worker and machine.

BALLUFF

ABB Programmable Safety Controllers, Safety Relays, Safety Light Curtains, Emergency Stops & Pilot Devices, Stop Time Analyzers, Non-contact Safety Sensors, Interlocks, Switches, Monitoring Relays.

PARCO, INC.
T-SLOT ALUMINUM EXTRUSION

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





MACHINE VISION



LMI Technologies 3D Machine Vision captures the shape of an object as opposed to 2D which only captures contrast. With 3D shape, you can measure geometric features on a surface regardless of surface color. LMI Gocator 3D offers:

- Volumetric measurement (X,Y, and Z-axis) provides shape and position related parameters
- Contrast invariant, ideal for inspecting low contrast objects
- Immunity to minor lighting variation or ambient light
- Higher repeatability due to integrated optics, lighting, and pre-calibration
- Simplicity when building multi-sensor setups for large object inspection



Gocator

GoMax

DATALOGIC

MORITEX
Vision Creating Value

smart vision lights

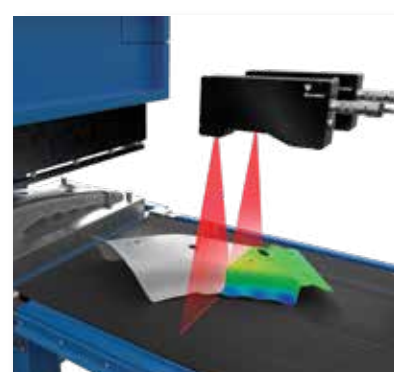
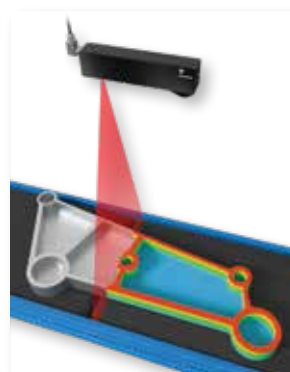
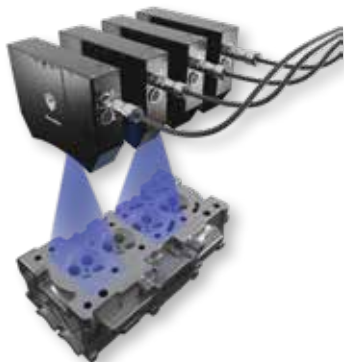
Datalogic Machine Vision The most trusted name in machine vision helps manufacturers speed up production, minimize defects, and reduce costs with 2D and 3D Machine Vision Systems. Cameras are available from 12MP high resolution models to simple sensors for inspection systems.



Moritex Machine vision lenses and lighting systems

Smart Vision Lights Machine vision lighting and filters

Edmund Optics Precision lenses for industrial vision





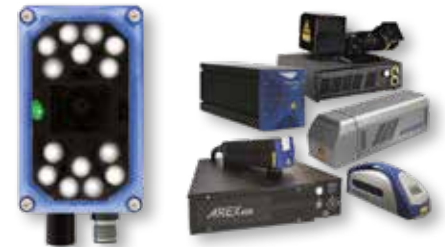
BARCODE READING, & PARTS TRACEABILITY



Datalogic Barcoding The world leader in barcode reading with a broad range of fixed-mount, in-counter, and handheld barcode scanners, Datalogic has the optimal solution for your product traceability, inventory, warehouse scanner, or direct part marking and product ID applications.



Datalogic Laser Marking A complete range of products and solutions based on Fiber Laser, Solid State and CO2 technology. Clear and permanent logos, 1D and 2D codes, serial numbers and dates on most industrial materials.



Balluff Balluff RFID systems are designed for the toughest environments and connect to almost any control network. Balluff can handle almost any ID application in industrial plants.



SMART SENSORS



Balluff Premium sensors for a wide range of application requirements, from presence detection and position measurement to level detection and pressure.



Datalogic Light-based technology including fork sensors, through-beam emitters and receivers, vision sensors, fixed focus, background suppression, luminescence, color, contrast, dimensional sensors



Tri-Tronics Photoelectric sensors, controls, fiber optic light guides, and rotary optical encoders. Designed and manufactured to provide high quality performance for a wide variety of industrial applications.



Baumer Presence and distance sensors, rotary encoders, and angle measurement



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



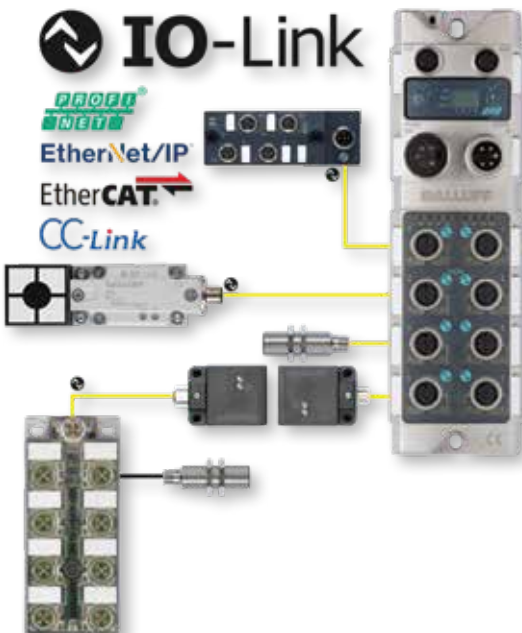
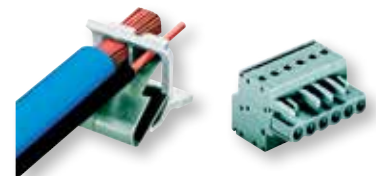
Murrelektronik Industrial Cordsets and Connectors, Active (Network) and Passive Interface Blocks, Power Supplies and Conditioners, Panel Interfaces



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



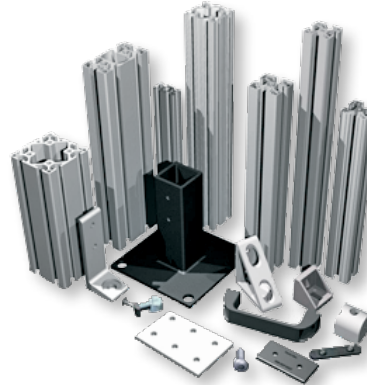


ELECTRICAL ENCLOSURES & STRUCTURAL FRAMING



Rittal Systems Industrial Enclosures (Free-Standing Modular, Wall-Mount, Junction Box, Stainless Steel) Ask about receiving custom enclosures preassembled.

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



ENCLOSURE CLIMATE CONTROLS



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





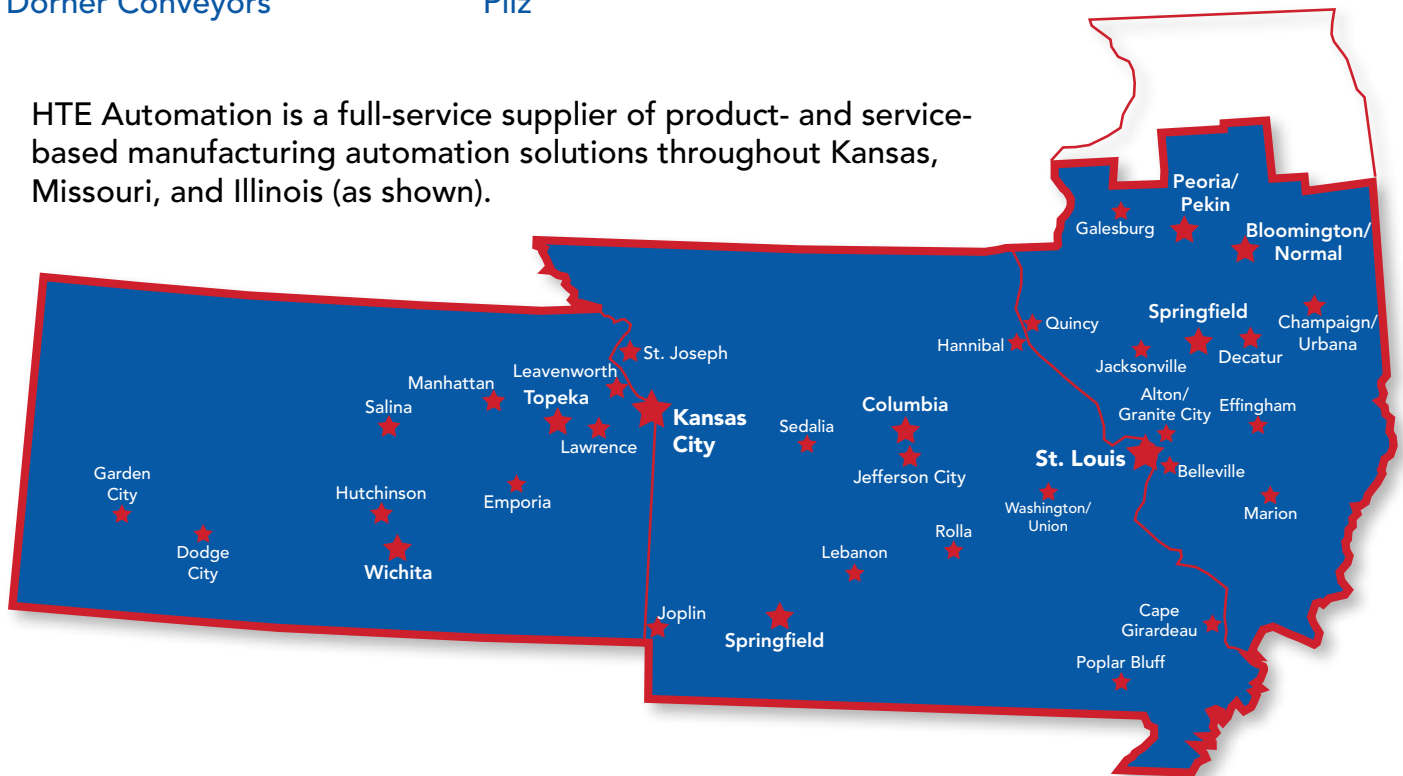
SUPPLIERS

ABB Low Voltage
 ABB Safety
 Accu-Tech USA
 Advanced Illumination
 Advantech
 Animatics
 Apex Dynamics
 Applied Motion Products
 Asyrl
 ATI Industrial Automation
 Balluff Corporation
 Baumer
 Coval Vacuum Technology
 DataLogic
 Dorner Conveyors

Edmund Optics
 Epson America
 FlexRobotics
 Heidenhain
 IAI (Intelligent Actuator)
 LMI Technologies
 MB Connect Line
 MiR Robots
 Mitsubishi Electric Automation
 Moritex
 Murrelektronik
 Newscale Robotics - Q-Span
 OnRobot
 Parco
 Pilz

Rittal
 Robotiq
 ROEQ
 R+W Coupling Technology
 Smartshift
 Smart Vision Lights
 Soft Robotics
 Swivellink
 Tolomatic
 Tri-Tronics
 Universal Robots
 Wago
 WorldWide Electric

HTE Automation is a full-service supplier of product- and service-based manufacturing automation solutions throughout Kansas, Missouri, and Illinois (as shown).



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