STAUBL

STÄUBLI

ROBOTIC AUTOMATION Smart, Simple and Safe



John Henry Foster

At John Henry Foster (JHFoster), we're devoted to bringing safe, flexible, and easy-to-use collaborative robots to businesses of every size. Our collaborative robots automate and streamline repetitive and monotonous processes. With this approach, we help production departments assign their operators to more in-depth work functions – thereby helping to create jobs that provide them with new challenges that add value to the company. From assembly to painting, screw-driving to labeling, packing to polishing and injection molding to welding, robotic automation is capable of improving any processing task you might need. Thanks to the flexibility of cobots, these robot arms are economically viable for even small-batch and mixed-product assembly.



INSTALLATION IS EASIER THAN YOU THINK

With their intuitive ready-made programming and integration software kits, the installation process has been greatly simplified.



IT'S FASTER THAN YOU THINK

Robotics has grown beyond experimentation and research. For simple manufacturing tasks, most collaborative robot cells will be operational in under a day. Our robotic accessories are designed for standardization on a factory floor. When you use the same end effector for all your robotized cells, setting up a new one is a breeze.



NO CODING REQUIRED

Today's robotized cells no longer require extensive custom coding of the robot's tasks or processes. Using the provided graphical user interface software, you'll be able to configure your gripper's start and stop points, movements, operations, speed and applied force.



800.582.5162

ROBOTIC ACCESSORIES

Robotic accessories specialize in reducing engineering time for custom tooling, design and programming and are chosen for their flexibility, durability and ease of adapting to various robotic projects. Each certified accessory has been calibrated and tested. This ensures you receive the optimal user experience and most reliable robot operating quality.

Whether your application focuses on assembly, pick and place or machine tending, we can help you see results in increased productivity, quality and consistency with all robotic accessories.





2-Finger Adaptive Grippers

3-Finger Adaptive Grippers



3D Robot Vision System



Force Torque Sensors



Wrist Cameras



3D E-Chain



2-Finger Adaptive Gripper



Cable Management



Robot Sleeves



Electric Parallel Gripper



Vacuum Tool End Effector



Software

John Henry Foster

IAI America, Inc

Meet the Cost-Effective SCARA Robot Pulse Motor Type IXP



IAI America is a world leader in linear actuators, SCARA robots and plug and play automation. The IXP achieves a payload equivalent to that of a conventional model by adapting high-output drivers. All IXP models come standard with absolute encoders that do not require batteries. Since battery replacement is no longer necessary, maintenance man-hours are reduced.

MORE AFFORDABLE

By adopting pulse motors the IXP costs around 1/2 a conventional model.



GREATER STORAGE AND SAFETY COMPLIANT

Accommodating significantly more programs and position with the greater storage capacity. By building an appropriate external circuit, the MSEL meets the safety circuit requirements of any Safety Categories 1 to 3.

SMALLER SIZE

Having a size of 130mm in width x 195mm in height, the MSEL is significantly smaller than a conventional controller and saves space in your control panel. The MSEL can be installed with screws or using a DIN rail.

SUPPORTING DIVERSE I/O INTERFACES

Standard PIOs and one expansion I/O slot are available. For the expansion I/O slot, PIOs or field network can be selected.

800.582.5162

TECHMAN ROBOT (TM)

TECHMAN ROBOT

Smart, Simple and Safe

Collaborative robots are designed to be safe to operate around people, working alongside their "colleagues" without the need for additional safety precautions. Collaborative robots are very easy to program and unlike traditional industrial robots that require advanced programming skills, cobots can be given work instructions without coding. TM's range of collaborative robots can achieve human-machine collaboration by combining its safe robotic technology, simple user interface and smart integrated vision system, significantly increasing efficiency and decreasing costs.

SMART

BUILT-IN VISION SYSTEM

TM Robot is equipped with a built-in vision system, which integrates into both the hardware and software perfectly.

MASTERS IN ROBOT VISION

Many standard robot vision functions are already built into the system: pattern matching, object localization, image enhancement, bar code reading, color recognition, etc.

5 MINUTES TO ACHIEVE A VISUAL PICK & PLACE TASK

Achieve a visual pick and place task within 5 minutes.

SAFE

FORCE LIMITING

TM Robot complies with the ISO 10218-1:2011 & ISO/TS 15066:2016 human-robot co-operation safety requirements for collaborative robots, allowing the robot to be programmed with both speed and force limits.

SAFETY IS PRIORITY

Through hardware, software and operational design, safety is first.

ERGONOMIC DESIGN

Physically designed to be safe to their surroundings, soft end caps and no sharp edges.



SIMPLE

REVOLUTIONARY USER INTERFACE

TM Robot is equipped with a built-in vision system, which integrates into both the hardware and software perfectly.

USE YOUR HAND

Lock selected axes to allow adjustment in defined planes and then fine tune the coordinates with easy editing of those coordinates within the programming package.

EASY TO DEPLOY

Easily deployed into different applications, reducing your timeto-production and saving your total cost in automation.

John Henry Foster

Stäubli Robotics

Stäubli offers a complete range of 4-axis and 6-axis robots designed to handle up to 150 kg payload and run on a single control platform. Regardless of industry or application, the requirements of automation are universal. Stäubli industrial robot arms deliver distinct technical advantages: compact size, broad work envelopes, high speed, precision, resistance to all types of environments and, above all, the flexibility to adapt to the greatest number of tasks.

STAUBLI



RELIABILITY

AUBL

High precision, long life and reduced maintenance JCS gearbox designed by Stäubli.

PROTECTION

Work in difficult environments Vertical outlet provides complete protection of connection under the arm.

COMPACTNESS

Optimum use of workspace Reduced footprint, large work envelope.

FLEXIBILITY

Integrated in flexible production line

Various mounting options (floor, wall or ceiling), Bellows optional, Multiple user connections.

PERFORMANCE

Solutions for every need Many versions and options available: 200 mm stroke, Humid Environment (HE) version.

FOOD INDUSTRY SPECIALIZED

Designed to handle extreme environments

Stäubli manufactures a specialized robot for food processing. The robots are fast, easy to install and use. The arms, with stainless steel IP67 wrists and minimum retention, are completely sealed. They are resistant to chemicals and cleaning fluids, and deliver an easy clean up.

800.582.5162

Kawasaki Robotics

High-Speed, High Performance Industrial Robots

Kawasaki Robotics is a leading supplier of industrial robots and robotic automation systems with a broad product portfolio, able to service a wide range of applications all around the world. The R Series Robots are setting the benchmark for all small to medium duty industrial robots helping customers improve productivity and quality. The compact design, along with industry leading speed, reach and work range make the R Series Robots ideal for a wide range of applications throughout a multitude of diverse industries.

HIGH TORQUE

High-output motors, combined with a rigid arm construction allow for superior wrist torque and load capacity.

ULTRA-HIGH SPEED OPERATION

Industry leading acceleration rate automatically adjusts to suit payload and robot posture delivering optimum performance and shortest cycle times.

WIDE WORK RANGE

Increased rotation range of each axis translates to a larger usable work area with minimal dead-space and greater flexibility.

INTEGRATED FEATURES

Built-in pneumatic lines and internal wiring for sensors and solenoid valves are standard. Mounting pads and taps provided allow easy installation of additional cabling, tubing or equipment.

ENVIRONMENTAL PROTECTION

Incorporates a double-seal construction on all axis and waterresistant electrical connections.

PROGRAMMING FLEXIBILITY

Able to be programmed via the robot teach pendant or a computer, or by using one of the two Kawasaki's programming methodologies, Block Step or AS Language.

SPACE SAVING

Slim arm design requires very little floor space and multiple robots can be installed in "high-density" applications without impeding performance.



Training Offered at JHFoster

John Henry Foster continues to grow and now includes a state-of-the-art training facility located down the road from our main headquarters in Eagan, MN. At our dedicated facility, we offer several training options in technology.



Technology Training Offered:

- Collaborative Robots
- Vision Systems 2D and 3D
- Electric Motion Linear and Rotary
- Safety Compliance and Products
- Programmable Logic Controllers (PLC)

Interested in our technology training? Contact us today at 800.582.5162, visit jhfoster.com or email solutions@jhfoster. com to learn more or to reserve your spot.



What to Expect in Our Robotic Training:

Training Focus:

- Getting familiar with our robots
- Overall safety of the robots
- Simple programming
- Discuss specific applications and accessories
- Open discussion

Presenters:

- Electrical engineers
- Mechanical engineers



John Henry Foster (JHFoster) is a leading distributor and service provider of automation, robotics and compressed air systems. Our mission is to assist companies like yours automate their manufacturing applications to make the process a positive journey. We are committed to providing successful solutions that exceed production demands, reduce costs, and increase overall efficiencies.

Headquartered in Eagan, MN, with an advanced robotics training facility and UL 508A certified control panel shop, we also offer a fullyequipped team of mobile technicians who provide service to the 5-state area. Contact us today at 800.582.5162, visit jhfoster.com or email solutions@jhfoster.com to learn more about how you might benefit from knowing us.