Collaborative Robot

Precise, Efficient & Consistent

Designed to be ‘plug & play’ with other equipment and existing processes to eliminate any potential downtime associated with system onboarding or operator training.

A collaborative system is only as viable as the collaborative design of the entire robotic work cell. Bastian Solutions will work closely with your team to identify the right technologies to create and implement a certified collaborative solution. Safety is our #1 priority.

A fully integrated collaborative solution involves careful vetting of the product moving through the system, the End-of-Arm-Tool (EoAT) that will interface with the product, each device that interfaces with the robot, and proper training of system experts at the end-user’s facility.

Benefits

- Reduced safety hardware (likely no safety fencing potentially no area scanners or light curtains) allows for deployment of robots in tighter spaces
- Compact, modular work cells allow quicker and easier deployment
- Collaborative design allows for more open maintenance access as well as operator interaction with robots and other equipment
- Reduces dedicated focus on repetitive, repeatable tasks like palletizing or pick & place
- Solves ergonomic concerns with payloads of up to 35kg
- Latest technology may allow faster speeds in collaborative mode following the safety risk assessment (previously limited to 250mm/s) with up to 1.8m reach
Applications

- Robotic palletizing of product with 15kg and 35kg payload options
- <7kg payload options for faster collaborative pick & place applications with small, lightweight parcels or products
- Robot systems in small areas or tight spaces
- Robot systems in areas of high personnel traffic or involvement
- Hand guided or remote joystick applications for lift assist and assembly up to 15kg payloads on collaborative robots, options available for larger payloads on non-collaborative industrial arms as well

Features

- Palletizing production capacity exceeding 400 units per hour
- Payload capacity up to 35kg including gripper
- Capable of meeting RIA and ISO safety requirements, specifically ISO/TS 15066
- Dual Check Safety (DCS) position/speed check functionality utilized as a safety rated monitored stop, with a maximum 150N contact stop sensitivity (can be set lower based on risk assessment)
- Integrates seamlessly with product conveyor, pallet conveyor, and ancillary equipment
- High system reliability, repeatability, and superior uptime, leading to constant quality
- Reduced labor needs and little maintenance required

Contact Us Today

Call for additional information
888.725.3046

Learn more about Bastian Solutions
Robotic Capabilities:

www.bastianrobotics.com