AIRPOWER®
MANUFACTURING SOLUTIONS

Success Story

Ergonomic material handling solution to reduce the risk of injury for operators on robotic machining cells.

ERGONOMICS REDUCE INJURY RISKS

CUSTOMER

A manufacturer of parts for the commercial motor vehicle industry

CHALLENGE

This customer had dealt with various injuries due to the operators handling parts of various sizes/weights while loading and unloading parts onto automated infeed/outfeed conveyors on robot machining cells. Hand/finger injuries were commonly reported, as well as various back injuries. These operators have been slow to embrace previous lifting methods.

SOLUTION

Air Power proposed an Ingersoll Rand column mounted with a 10ft reach and articulating arm. This system mounts out of the work cell yet reaches into the work cell to reach work area for loading and unloading. It includes an integrated 500lb air balancer for lifting/lowering with the ability to adjust both the lifting and lowering speed to dial in the exact application. This device features low rotational inertia for ease of use and improved ergonomics for the operator, low maintenance, low CFM usage per cycle.

RESULTS

This Custom Air Power/Ingersoll Rand Manipulator is made of heavy steel for durability with pistol grip controls and a dummy handle for ease of use and maneuverability. It includes single hand controls for lifting/lowering of the device & clamping/unclamping of parts, safety interlock that is load sensing to prevent parts from being dropped once elevated off the work surface, V shaped movable jaws to allow clamping of various sized parts, padded jaws to prevent damage to machined surfaces, and requires little to no maintenance.

MEET RUSTY CLINTON

Rusty Clinton is an Account Manager reporting out of the Charlotte, North Carolina area. He was recently recognized as Air Power's 2018 Salesman of the Year.

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ABOUT US

Air Power is a leading distributor of industrial products and integrated solutions provider. Air Power shows a true dedication to supporting the needs of their customer base by not only distributing industrial equipment, but also offering repair services in-house and in the field, engineering services for integrated solutions and over 50 years of industry experience.

Air Power boasts an impressive team of over 30 Account managers, over 40 application specialists, and 9 branch locations in 3 regions across the Southeast including Mexico, all under 1 company with 1 mission: to build lasting relationships by supporting the manufacturing community with quality products and highly engineered solutions to effectively assemble, move, and coat the products that shape our world.

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LOCATIONS

High Point, NC
Raleigh, NC
Lenoir, NC
Charlotte, NC
Salem, VA
Greenville, SC
Chattanooga, TN
Atlanta, GA
Tupelo, MS
Monterrey, MX
Orlando, FL
Baltimore, MD

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