

Emerson revs up engine maker's work cells for faster production changeovers

RESULTS

- Reduced up-front engineering time
- Accelerated start-up and commissioning
- Achieve faster production changeovers
- Improved product quality
- Reduced maintenance costs and downtime



APPLICATION

Gasoline Engine Application

CHALLENGE

A gasoline engine provider was spending too much time specifying and configuring the machining cells at its manufacturing plant. The company wanted to redesign the cells to simplify and speed up production line changeovers. A variety of pneumatic control products were employed in the cells — from preassembly to assembly to testing applications. The components included valves, manifolds, cylinders, and air preparation equipment. The manufacturer searched for a pneumatic controls supplier that could help expedite its production line changeovers.

SOLUTION

After evaluating a group of suppliers, the engine manufacturer selected Emerson to provide the plant's pneumatic products. The Emerson solution included the ASCO™ Series 503 directional control valves, G3 electronic fieldbus manifolds, 500 Series Robot EE-Interface, and ASCO Series 652 air preparation equipment. These products interfaced easily with the plant's Fanuc robots. An initial valve and electronic manifold package were purchased and installed that performed flawlessly in the application. The manufacturer then installed the pneumatic solution in all its machining cells. The result: the company's up-front engineering time was substantially reduced. Start-up and debug times were minimal, enabling the work cells to achieve faster production changeovers. Manufacturing efficiencies have increased, product quality has improved, and maintenance costs and downtime were reduced. The plant is now specifying Emerson pneumatic products and is considering the solution for its aluminum foundry.

Since the gasoline engine provider installed Emerson's pneumatic and electronic manifold solutions, product quality has improved, maintenance costs have lowered, and downtime has been reduced.

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