

Successful valve specification improves availability and energy efficiency of winding machine

RESULTS

- Anticipated decrease in downtime after one year of running the new machine due to the extended life of AVENTICS™ products
- A reduction in spare parts
- Greater machine reliability and efficiency, thanks to the integration of high quality and reliable valves with low energy consumption



APPLICATION

Winding machine

CUSTOMER

An Original Equipment Manufacturer (OEM) that is specialized in rugged, flexible and high-quality machines and systems for electric motor and generator technology.

CHALLENGE

The OEM was tasked with building a winding machine for a major, German-based multinational engineering company. The expectation was that the machine — including its Profinet-enabled valve manifold and cylinders — would perform to the end-user's high standards in terms of reliability, quality and energy efficiency.

SOLUTION

The end-user specified the AVENTICS Series AV05 valve manifold, complete with Profinet fieldbus capabilities, as well as Series CCI compact, short-stroke cylinders. These products offer the right combination of quality, reliability and efficiency, successfully meeting the end-user's high performance standards:

- With a 70% weight reduction and 80% consumption cut, the AV05 modular valve system is an energy-efficient automation solution. It also features an excellent volume-to-flow ratio and energy balance.
- The AV05 effortlessly communicates with modern control systems via all standard fieldbus systems—including Profinet, which the end-user specified.

AVENTICS valve manifold and cylinders successfully met an end-user's high performance standards in a winding machine.

- The Series CCI cylinder housing consists of a continuous aluminum profile with a press-fit cover and bottom. This easy-to-clean design prevents the accumulation of dirt, making the cylinder a reliable choice in demanding environments.
- The cylinders' 100-mm piston diameter features compact external dimensions that are 60% shorter than standard ISO profile cylinders, thus achieving greater efficiency.

Thanks to the success of the AVENTICS products in the winding machine, the motor and generator company plans to use more AVENTICS technologies in its future machine builds.

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