

BUSINESS AREA: MOTION

ABB Drive Products

Facts & Figures



ABB's Drive Products division is a technology leader serving industries, infrastructure, and machine builders with world-class drives. With our products, global scale, and local presence, we help our customers to improve energy efficiency, productivity, and safety. Without being controlled by a drive, many motors run at full speed even when the load requirements are minimal. ABB's drives control the speed of an AC motor by varying the frequency and voltage of the power being fed to it enabling significant energy savings.



Revenues

\$1,250–1,750 million



Market position

No. 1 overall



Key market drivers and trends

Energy efficiency: The millions of electric motors that drive machines, compressors, fans, pumps, or conveyors in virtually every industrial sector, consume around 45% of the world's electricity. However, too many of these motor-driven systems are based on outdated and inefficient technology that wastes energy unnecessarily.

A simple, and very cost-effective, measure is to use a variable speed drive (VSD) to match the motor speed to the actual demands of the process. Without a VSD, the motor runs constantly and uneconomically at full speed, regardless of need, or has to be slowed down by mechanical controls which wastes energy. Typically, a drive will reduce energy usage by 25%. Yet only about 23% of the world's motors are paired with a drive. Addressing this gap is particularly important as the number of motors is expected to double by 2040.

Digitalization: Connecting drives to a larger network enables them to transmit data about their energy usage, condition and overall efficiency, all in real time. This gives equipment operators the ability to remotely monitor their powertrains and take smarter, simpler actions to optimize performance, without the need to manually diagnose problems on-site. Thanks to the time, money and effort they are therefore able to save, these digitally-connected drives are quickly becoming the standard.



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