

















ABB drives and controls

Global product offering

ABB is a world leader in automation technologies, with an extensive drives portfolio. From micro and machinery drives for machine building to industrial drives for processing lines, we have the optimum products for a broad range of requirements.

Product / Offering	Benefits and features	Suggested applications
<p>Micro drives</p> <p>ACS55 0.18 to 2.2 kW (0.25 to 3 hp)</p>  <p>ACS150 0.37 to 4.0 kW (0.5 to 5 hp)</p>	<p>Easy to set up and commission, the design focus of the ACS55 is on easy integration into machines, with flexible mounting alternatives.</p> <p>Available for both single and three-phase supplies, the ACS150 includes many functions as standard, including PID control and a built-in brake chopper and EMC filter.</p>	<p>Pumps, fans, conveyors, automated gate control, solar trackers, exercise equipment, whirlpools and food & beverage machinery</p> <p>Conveyors, mixers, material handling machinery, fans, pumps, automated gate control and printing machines</p>
<p>Machinery drives</p> <p>ACS355 0.37 to 22 kW (0.5 to 30 hp)</p>  <p>ACS850 0.37 to 560 kW (0.5 to 700 hp)</p> <p>ACSM1-04 0.75 to 355 kW (1 to 450 hp)</p>	<p>Designed for the fastest installation, parameter setting and commissioning, these drives are also highly compact and cost effective. They have been developed to meet the production and performance needs of system integrators, OEMs and panel builders, as well as the requirements of end users in a broad range of applications.</p> <p>The flexibility and scalability to meet challenges. Scalable motor control means a variety of motor types can be used. Programming flexibility along with a wide range of options and safety features allow easy integration into the process.</p> <p>The ACSM1-04 provides speed, torque and position control for demanding applications. This drive can control induction, synchronous and asynchronous servo, and high torque motors with various feedback devices. The compact hardware, different variants and programming flexibility ensure optimum system solutions.</p>	<p>Conveyors, material handling machinery, exercise equipment, compressors, extruders, mixers, centrifuges and processing lines</p> <p>Cranes, extruders, conveyors, winders and mixers</p> <p>Extruders, label printing, coat-ers, winders and automatic storage</p>

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<p>General purpose drives</p> <p>ACS310 0.37 to 22 kW (0.5 to 30 hp)</p> <p>ACS550 0.75 to 355 kW (1 to 550 hp)</p> <p>ACS580 0.75 to 500 kW (1 to 600 hp)</p> 	<p>A drive dedicated to optimizing variable torque applications, like booster pumps and centrifugal fans. Designed with a powerful set of features, this drive helps you save on operating costs, increase energy efficiency and reduce CO2 emissions.</p> <p>Ideal for variable and constant torque applications, this drive is plug-and-play right from the start. It is a great choice when you need a unit that is simple to install, commission and use, and where customizing or special product engineering is not required.</p> <p>Built-in features and compact design provide effortless energy efficiency for a wide range of variable and constant torque applications. The state-of-the-art control panel with primary settings menu and embedded assistants reduces commissioning time and makes it easy to monitor the process.</p>	<p>Booster pumps, irrigation systems, level control and centrifugal fans</p> <p>Pumps, fans, conveyors, material handling machinery, compressors, extruders, mixers and centrifuges</p> <p>Pumps, fans, conveyors, compressors, extruders, mixers and centrifuges</p>
<p>Standard drives</p> <p>DCS550 20 to 1000 A DC 10 to 545 kW</p> 	<p>Ideal DC drive solutions for machine manufacturers – both in new installations or as replacements for older analog devices. Control panel and PC assistant provide ease of use.</p>	<p>Meat cutters, extruders, mixers, centrifuges, conveyors, printing and main drives of machine tools</p>
<p>Industrial drives</p> <p>ACS800 0.55 to 5600 kW (0.75 to 7500 hp)</p> <p>ACS880 0.55 to 5600 kW (0.75 to 7500 hp)</p> <p>DCS800 20 to 20000A 10 kW to 18 MW (13.6 to 24500 hp)</p> 	<p>Highly flexible and easily customized, these drives are a perfect match for many industrial applications. They feature programmability and configurability during both ordering and commissioning, making it easy to adapt them to different applications.</p> <p>The all-compatible ACS880 industrial drives are designed to tackle any motor-driven applications, in any industries, whatever the power range. These drives are compatible with virtually all of your processes, automation systems, users and business requirements.</p> <p>Tough industrial applications require equally tough products. These DC drives give you the day-to-day reliability and performance you expect with the flexibility to meet your unique process requirements.</p>	<p>Pumps, fans, cranes, extruders, winches, winders, conveyors, mixers and compressors</p> <p>Pumps, fans, cranes, extruders, winches, winders, conveyors, mixers and compressors</p> <p>Kilns, winders, extruders, pumps, fans, blowers, mixers, rolling mills, hoists, cranes, battery chargers, electromagnets, electrolysis, drilling and propulsion</p>
<p>Power controllers</p> <p>DCT880 20 to 4160 A 14 kW to 5 MW</p> 	<p>Ideal for controlling electro-thermal processes. Suitable for all resistive and inductive loads and infrared heaters. Integrated temperature controller and free process controllers. Power optimizer function reduces energy costs. Programmable (IEC 61131-3). Support for all common fieldbuses including PROFINET and EtherNet.</p>	<p>Annealing, drying, melting and heating in glass, plastic and metal industries</p>

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<p>Medium voltage drives</p> <p>ACS2000 250-3200 kW (300 to 3000 hp)</p> 	<p>Versatile medium voltage AC drives that suit a wide variety of industrial applications. Highly flexible, allowing you to configure the drives to meet your specific process needs, while reliable motor control ensures high productivity, availability, and efficiency.</p>	<p>Pumps, fans, conveyors, compressors, test stands, mills, mine hoists, extruders, mixers and blowers</p>
<p>Industry specific drives</p> <p>ACH550 0.75 to 355 kW (1 to 550 hp)</p>  <p>ACQ810 0.37 to 500 kW (0.5 to 600 hp)</p> 	<p>Designed specifically for the HVAC market, this drive achieves the ultimate in flexible motor control performance. All major building automation protocols, including BTL listed BACnet are built-in as standard.</p> <p>Developed for the water and wastewater industries, this drive ensures accurate control of water flow from raw water pumping to fresh water and wastewater treatment. Built-in macros can be customized to meet single and multi-pump system configurations. It will safely and intelligently control flow, level and pressure in line with the system requirements.</p>	<p>Pumps, fans, air handlers, cooling towers, condensers, compressors, ventilation and exhaust fans, centrifugal hot and cold water pumps</p> <p>Pumps and irrigation systems</p>
<p>Motion control drives</p> <p>MicroFlex e150 3, 6, 9 A rms with 200% overload</p>  <p>MotiFlex e180 2 to 50 A with 200% overload</p> 	<p>The MicroFlex e150 servo drive combines Ethernet technology, advanced multitasking software and single-phase operation in a compact package.</p> <p>With its versatile motion control performance, the MotiFlex e180 delivers the capability and dependability to power machine innovations. Flexible connectivity with Ethernet and motor feedback technologies is highly integrated and optimized for demanding motion applications.</p>	<p>Cutting & forming, pick & place, packaging (form-fill-seal, labelling, etc.), laser/water-jet/textile cutting machines</p> <p>Metal cutting and forming, printing and converting, laser/water-jet/textile cutting, rubber and plastics, and packaging</p>
<p>Control panels</p> <p>CP400, CP600</p> 	<p>The CP400 and CP600 HMI control panels offer a wide range of features and functionality for maximum operability. ABB control panels are distinguished by their robustness and easy usability, providing all the relevant information from production plants and machines at a single touch.</p>	
<p>Programmable Logic Controllers</p> <p>AC500 (also eXtreme Condition AC500-XC)</p>  <p>AC500-eCo</p>  <p>AC500-S (also eXtreme Condition version AC500-S-XC)</p>  <p>Automation Builder</p> 	<p>High performance modular PLC with comprehensive industrial communications couplers and I/O modules for all industrial applications. The ideal choice for complex high speed machinery and networking solutions.</p> <p>This compact PLC offers flexible and economical configurations for modern control systems. The ideal choice for smaller applications.</p> <p>This safety PLC (SIL3, PL e) is designed for safety applications in the factory and machinery automation areas. The ideal choice to implement and manage complex safety solutions.</p> <p>Integrates engineering and maintenance for PLCs, drives, motion, HMIs and robotics. Automation Builder complies with the IEC 61131-3 standard, offering all five IEC programming languages for PLC and drive configuration.</p>	<p>High speed motion, labelling, printing, fill and seal, extrusion, molding, palletizers and data centers</p> <p>Mixers, refrigeration, compressors, conveyors, pumps and fans</p> <p>Cranes, hoists, wind turbines, palletizers, welding, laser cutting and robot cells</p>

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