







# ABB drives

## North American product offering

ABB is a world leader in automation technologies, with an extensive portfolio of drives, control panels and programmable logic controllers. 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.

Micro drives		
Product/Offering	Benefits and features	Suggested applications
<b>ACS255</b> 0.5 to 30 hp (0.37 to 22 kW) 	Compact and available with flexible mounting options without the need for accessory mounting kits. These drives are ideal for panel builders and OEM's needing a micro drive with low cost, flexible mounting options, and rapid parameter setup.	Pumps and fans, material handling machines, automated gate control, conveyors, mixers, processing lines
Machinery drives		
<b>ACS180</b> 0.33 to 30 HP (0.25 to 22kW) 	Essential Features included; dual ratings, SIL3 Safe Torque Off, modbus RTU, part of the all-compatible family. Save costs with essential features and reduce installation time with ease of use. Designed for machine builders to optimize panel space and provide the performance and reliability to set your machine apart.	Fans, Pumps, Conveyors, Mixers, Compressors Automated gate control, printing machines
<b>ACS355</b> 0.5 to 30 hp (0.37 to 22 kW) 	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.	Conveyors, material handling machinery, exercise equipment, compressors, extruders, mixers, centrifuges and processing lines
<b>ACS380</b> 0.33 to 30 hp (0.25 to 22 kW) 	A preconfigured drive variant for fast installation and commissioning, featuring an integrated, icon-based user interface for faster usability and adaptive programming for fine-tuning the application. The drive is designed to be used in applications requiring accurate speed and torque control.	Mixers, centrifuges, conveyors, cranes and other constant-torque applications in machine building
<b>ACS880-M04</b> 0.5 to 60 hp (0.37 to 45 kW) 	This flexible and high performance drive is designed for machine builders requiring adaptable performance for their machine. It can control almost any kind of motor in a closed or open loop for torque, speed or position control.	Winders, mixers, cranes, sorting conveyors
General purpose drives		
<b>ACS580</b> Wall mount 0.75 to 350 hp (0.55 to 261 kW) Cabinet 200 to 700 hp (149 to 522 kW) 	Designed for both variable and constant torque applications. Most essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Straightforward settings menu and assistants enable fast set-up, commissioning, use and maintenance.	Pumps, fans, compressors, conveyors, mixers

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**Industrial drives**

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**Product/Offering**

ACS880

Wall mount

0.1 to 350 hp

(0.55 to 6000 kW)

Cabinet

75 to 8050 hp

(56 to 6003 kW)

**Benefits and features**

ACS880 industrial drives are designed to tackle any motor-driven applications, in any industry, in a wide power and voltage range. They represent the highest standard of drive design in terms of motor control, functional safety, programmability, robustness, flexibility and other features. These drives are compatible with virtually all of your processes, automation systems, users and business requirements. The ACS880 range includes complete drives as well as modules that can be built into customer enclosures, and it offers many variants from standard, six-pulse drives to regenerative and ultra-low harmonic versions.

**Suggested applications**

High-performance applications, kilns, winders, extruders, pumps, fans, blowers, mixers, rolling mills, hoists, cranes, electrolysis, drilling and propulsion

DCS880

5 to 8050 hp

(3.7 to 6000 kW)



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. The DCS800-A cabinet drive has options to comply with customer's safety regulations (e.g. STO/E-STOP).

Kilns, winders, extruders, pumps, fans, blowers, mixers, rolling mills, hoists, cranes, battery chargers, electromagnets, electrolysis, drilling and propulsion

DCT880

16 to 4200 A



With the DCT880 thyristor power controller, automating heating control helps ensure precise temperatures are met and that the energy used for heating is used efficiently.

Precise control of resistive or inductive heaters and infrared heaters in applications such as annealing, drying, melting or heating in glass, plastic or metal industry

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**Medium voltage drives**

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ACS2000

300 to 3000 hp

(250 to 3200 kW)



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.

Pumps, fans, conveyors, compressors, test stands, mills, mine hoists, extruders, mixers and blowers

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**Industry specific drives**

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ACS320

.5 to 30 hp

(0.37 to 22 kW)



Customized for HVAC OEMs, this drive family has a powerful set of built-in features to benefit fan and pump applications. Set-up and control is intuitive and simple, allowing easy integration with building automation systems through embedded communication languages, such as BACnet.

Pumps and fans, booster pump systems, fan arrays, supply and return fans

ACH580

1 to 350 hp

(0.75 to 260 kW)



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.

Supply, return, extract and exhaust fans, booster and circulation pumps, air handling units, cooling towers, condensers and compressors

ACQ580

1 to 350 hp

(0.75 to 260 kW)



Designed for the water and wastewater industry, this drive contains customized start-up assistants, preprogrammed water-specific application macros, and various enclosure options making it the ideal drive for your water related applications.

Pumps, irrigation systems

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**Control panels**

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CP600-eCo



The economical CP600-eCo control panel is aimed for standard functions and high usability in many standard applications. It offers standard environmental ratings with basic memory and communications capability.

CP600 Standard



The CP600 Standard provides comprehensive HMI functions with significant communications capability and large data and graphics memory. Bright displays, IP66 rating and an increased operating temperature range of -4...+140°F (-20...+60 °C) make them a first choice -- even for harsh environments.

CP600 Pro



The CP600-Pro adds higher resolution and multi-touch operation with real glass fronts onto the screens sizes up to 21.5" for improved visibility and operator interface. Additional communications ports and applications memory provide high-end data handling and communications options for control room and for harsh environments.

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## Programmable automation controllers

Automation Builder  
Programming Software



Automation Builder software provides Industry Standard based PAC, HMI graphics and ABB Drives Programming in the same package. It comes in a range of levels, from a free simple version to complex simulation and project management versions and has many add on libraries for extended functions.

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AC500 I/O Line



To optimize the price, footprint and features, the AC500 I/O line offers a wide range of I/O. These include multi-functional and software configurable I/O modules, and a wide range of basic I/O modules with different channels, signal voltage and fieldbus connections. Extreme condition modules for harsh environments and Safety Modules for SIL rated applications are also part of the I/O line.

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AC500-eCo PAC



AC ABB's ACS500-eCo is designed for compact to mid-range applications, ranging from compact remote skids to distributed controllers that report to central supervisory control. It includes on-board I/O, 1 or 2 standard Ethernet ports, and 3 levels of performance and memory to fit your application.

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AC500 PAC



ABB's ACS500 handles a wide range of applications, from small machines to large, multi-CPU applications, with a scalable design, large memory range, and extensive comms capability with IT and multiple fieldbus networks.

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AC500-XC



The Extreme Condition version of the AC500 uses the same programming and configuration as the standard units with the addition of enhanced resistance to High humidity, Salt mist, Vibration, High Altitude, Corrosive gases, and a temperature range from -40 to +158 Degrees F (-40 to +70 degrees C).

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AC500-S



The AC500-S allows easy integration of Safety functionality to the standard AC500 system by addition of the Safety Modules. Use what you know by using the same programming environment. Extreme Condition Safety modules are also available.

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**ABB**

For more information and local contacts, please visit:

**[www.abb.com/drives](http://www.abb.com/drives)**

or call

**(800) 752-0696**