

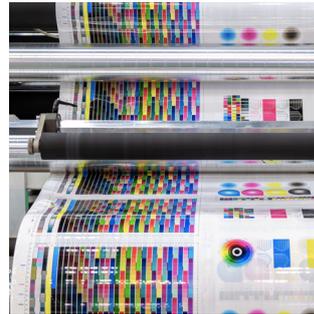
Where to use ABB's general purpose drives



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Effortless process control and reliable operation in various light-industries

The ACS580 drives are capable of controlling more demanding applications, while the ACS480 drives offer easiness and energy savings for basic applications.

Industry	Application	Customer benefits
Food and beverage 	Blowers, centrifuges, compressors, conveyors, fans, mills, pumps, separators	<ul style="list-style-type: none"> Enhanced quality of end products with smooth process control Robust design of the drive reduces mechanical stress of process line equipment, lowering maintenance costs and securing hygienic production Accurate control of the process increases the speed of food production while saving energy and improving work safety Additional energy and water savings with energy optimizer function and flexible control setups help reduce operating expenses and improve environmental image
Material handling 	Compressors, conveyors, fans, pumps	<ul style="list-style-type: none"> Accurate motor control increases production uptime even when the load is varying Built-in counters for additional energy savings and preventive maintenance Connectivity to any public network with plug-in fieldbus options Built-in PID functions balance the operation flow Stall function protects the motor due to e.g. a shock load
Printing 	Compressors, presses, winders	<ul style="list-style-type: none"> Smooth acceleration prevents breaking the paper Robust design of the drive reduces mechanical stress of process line equipment, lowering maintenance costs and capital expenditure
Rubber and plastics 	Extruders, injection molding machines, pumps	<ul style="list-style-type: none"> The design without derating up to +40 °C (ACS580) or 50 °C (ACS480) provides wide operation temperatures Smooth acceleration prevents breaking the web of plastic film Multilingual assistant control panel for global use Worldwide certificates, support and service with niche knowledge in domain applications
Textile 	Bleaching machines, compressors, conveyors, drum washers, fans, jet dyeing machines, stretchers, winders	<ul style="list-style-type: none"> Precise speed or torque control for high stretching accuracy and better quality of end product Adjustable acceleration and deceleration ramps to improve pump control Real-time clock and timed functions for process optimization Multiple setups enable users to effortlessly switch between pre-defined settings Built-in counters for additional energy savings and preventive maintenance
Sawmill 	Chippers, conveyors, debarkers, dryers, pickers, stackers	<ul style="list-style-type: none"> IP55/UL 12 (only ACS580) available up to 250 kW in 400 V and high enclosure rating for harsh environments. Flexible speed and torque settings increase productivity Safe torque off (SIL 3) function ensures machine and personnel safety Minimized downtime with robust and reliable design
Water handling 	Pump stations	<ul style="list-style-type: none"> Additional energy savings with energy optimizer function Stable process with smooth and continuous flow and pressure control Adjustable acceleration and deceleration ramps to improve pump control Real-time clock and timed functions for process optimization
Agriculture 	Fans, irrigators, pumps, sorters	<ul style="list-style-type: none"> IP55/UL 12 (only ACS580) available up to 250 kW in 400 V and high enclosure rating for harsh environments Power range up to 500 kW available for most typically used applications in the industry The drives operate even on varying loads without tripping, providing faster diagnostics and less nuisance trips
Automotive 	Conveyors, fans, pumps	<ul style="list-style-type: none"> Increased productivity and faster payback times with multiple setups Enhanced quality of end products with smooth control of the motor and process Safe torque off (SIL 3) function ensures machine and personnel safety Robust design of the drive reduces mechanical stress of process line equipment, lowering maintenance costs and securing high production quality