Where to use ABB's general purpose drives
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.

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<tr>
<th>Industry</th>
<th>Application</th>
<th>Customer benefits</th>
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| **Food and beverage**  | Blowers, centrifuges, compressors, conveyors, fans, mills, pumps, separators | • 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                                           | • 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                                               | • 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                                 | • 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 | • 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                    | • 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                                                                | • 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                                             | • 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                                                       | • 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 |