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LOW VOLTAGE AC DRIVES

# Smooth construction elevator rides with ACS880 drives



# Safety. Performance. Energy efficiency.

## Everything counts.

The need for efficient and safe operation imposes strict demands on construction elevator design. The movement of the elevator must be precise and smooth, even in demanding environments. That's why the elevator control has to be selected carefully. Because everything counts.



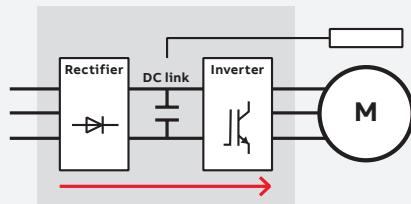
The ACS880 product family is available in a power range from 0.55 to 5600 kW and at voltages of 230, 400, 500 and 690 V. The enclosure class options are IP20, IP21 and IP55.

### ACS880 drives for efficient and safe construction elevator movement

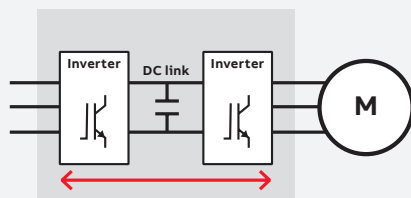
- Suitable for industrial elevators, construction hoists, transport platforms, material hoists and work platforms
- Smooth speed control and acceleration/ deceleration with direct torque control (DTC)
- All-in-one regenerative drive variants including line filter, active supply unit and inverter available in an extremely compact size
- Precise control of mechanical brakes
- Support all common I/O and fieldbuses
- Wherever your elevator is installed, ABB's global service and support network is always near

### Electrical braking options

Dynamic braking/resistors



Regenerative braking



### Position control software option

- Absolute and relative positioning with or without a motor encoder
- Position control and position synchronization of multiple hoists with very smooth acceleration control

### Programming flexibility

- Adaptive programming (AP) with basic function blocks as a standard feature in the drive
- IEC 61131-3 programming as an option for full-scale custom features




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### Removable memory unit

- Easy and fast drive commissioning or replacement
- Software updates and upgrades can be made fast without special skills
- Minimized downtime in case of failure
- Includes drive firmware, parameters, application software and user interface configuration
- All data is encrypted




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### Safety options

ACS880 drives come with an integrated safe torque off (STO) safety function as standard, up to SIL 3. The STO function fulfills the requirements of the IEC 61508, EN 62061 and EN ISO 13849-1 standards.

#### Drive-based safety

Safe torque off is built-in as standard in the drive. An optional FSO-21 safety functions module provides additional safety functions achieving a safety level up to SIL 3 or PL e.

#### Support with feedback encoder

If the application requires safe encoder feedback, it can be established with the safety-certified FSE-31 pulse encoder interface module.



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For more information, please contact  
your local ABB representative or visit

[new.abb.com/drives](http://new.abb.com/drives)  
[new.abb.com/drivespartners](http://new.abb.com/drivespartners)

