



200 V Three-phase
5 kW to 130 kW

400 V Three-phase
5 kW to 630 kW

D1000 Regenerative Converter Unit

YASKAWA's new D1000 regenerative converter unit saves energy and space. Suitable for both regenerative individual drives and systems of inverter drives, servo axes or robots, the D1000 feeds excess braking energy back into the grid instead of converting it into heat. This not only reduces energy consumption and cost but also contributes to the protection of our environment.

- ▶ Sinusoidal input current reduces the strain on the power supply system (lines, transformers)
- ▶ Low energy consumption due to common DC bus systems – the braking energy of one drive is consumed by other drives in the system
- ▶ Recovered energy can be used by other consumers in the same facility, lowering the total energy consumption of the facility
- ▶ Less installation space as braking transistors and resistors are not required
- ▶ Less waste heat reduces the workload of the ventilation system
- ▶ Requires less maintenance work than systems with braking resistors
- ▶ Lowers the total operating costs of the system
- ▶ Increased system reliability thanks to stable DC link voltage, even with different or fluctuating input voltages

Applications with energy recovery



Escalator



Lift



Crane



Winder

Applications for low harmonics



Fan



Compressor



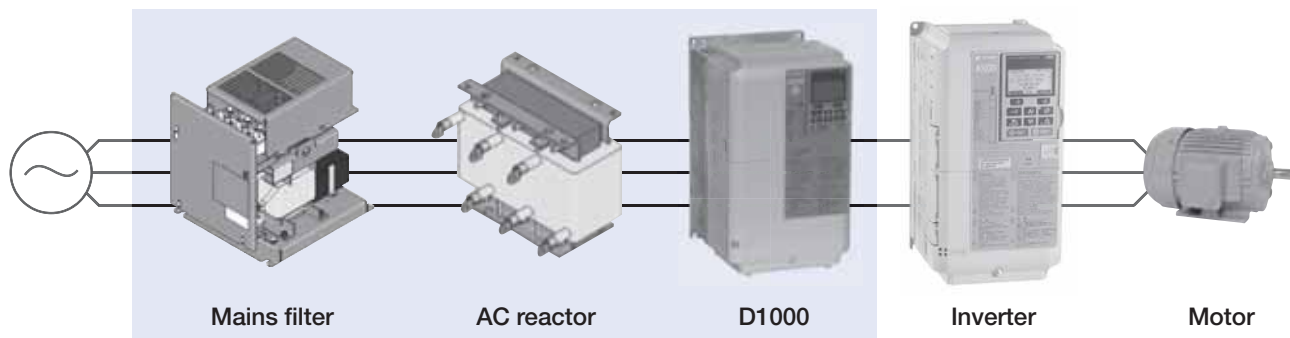
Pump

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Components

The D1000 feeding and recovery system is installed upstream of inverter drives, servo drives or robots and consists of a mains filter, an AC reactor and the D1000.



System Architecture

The D1000 feeding and recovery system is ideal for both single-axis and multi-axis systems, and offers an energy-efficient solution for a wide variety of drive applications.

- ▶ Escalators, moving walkways
- ▶ Elevators
- ▶ Pumps
- ▶ Compressors
- ▶ Presses



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Mains
D1000
DC bus

- ▶ Crane and hoisting applications
- ▶ Transport systems
- ▶ Test stands
- ▶ Robots
- ▶ Winders



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International Standards



RoHS Directive

RoHS Directive stands for the EU directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Specifications are subject to change without notice for ongoing product modifications and improvements.
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