

# *Driving a green future*



Renewable Energies



Hoisting Technology



Machine Tools



Transportation Engineering



Marine Shipbuilding



Defence

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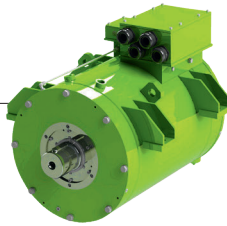
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# Drives & Generators Technologies/Applications

# Technologies/Applications Drives & Generators

## Asynchronous

- Areas of application:
- ▶ conveyor technology
  - ▶ fans and air conditioning
  - ▶ compressors
  - ▶ pumps
  - ▶ mixers and kneading machines
  - ▶ hoisting technology
  - ▶ machine tools
  - ▶ traction drives



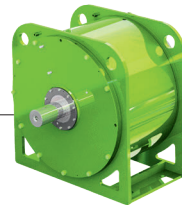
## Torque

- Areas of application:
- ▶ radar systems
  - ▶ rotary plate for machine tools
  - ▶ powerful rotary drives
  - ▶ construction machinery
  - ▶ tunnel boring machine



## Synchronous

- Areas of application:
- ▶ paper industry
  - ▶ cleaning facilities
  - ▶ belt drives
  - ▶ synchronism
  - ▶ parallel operation w/o feedback



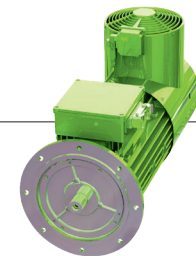
## Servo

- Areas of application:
- ▶ machine tools
  - ▶ for very limited installation space
  - ▶ compressor / extruder
  - ▶ highly dynamic applications
  - ▶ travel drives



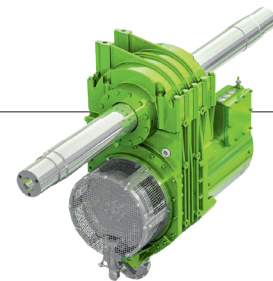
## Direct current

- Areas of application:
- ▶ wind power industry
  - ▶ textile industry



## Geared motors

- Areas of application:
- ▶ cleaning facilities
  - ▶ rail vehicles
  - ▶ conveyor technology
  - ▶ textile industry



parameters	drive motors					generators
	synchronous	asynchronous	servo	torque	direct current	a-/synchronous
power	up to 100 kW	up to 600 kW	up to 1 MW	application-specific	up to 20 kW	up to 500 kW
rotational speed	up to 5.000 rpm	up to 30.000 rpm	up to 60.000 rpm	application-specific	application-specific	up to 1.800 rpm
voltage	0-690 VDC	0-690 VDC	0-690 VDC	0-690 VDC	0-500 VDC	application-specific
torque	1 Nm-1kNm	1 Nm-5 kNm	1 Nm-18 kNm	up to 20 kNm	application-specific	application-specific
efficiency	up to 97%	up to 96%	up to 97%	application-specific	application-specific	up to 97%
Torque density	high	good	high	very high	low	high