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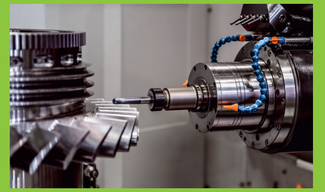
Driving a green future

Renewable Energies

Hoisting Technology



Machine Tools

Transportation Engineering

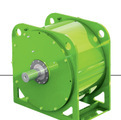
Marine Shipbuilding

Defence

Drives & Generators
Technologies/Applications

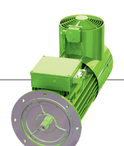
Asynchronous

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



Synchronous

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



Direct current

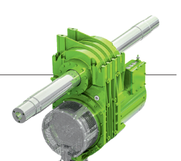
Areas of application:
- wind power industry
- textile industry

Torque

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

Servo

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



Geared motors

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

Technologies/Applications
Drives & Generators

	drive motors					generators
parameters	**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