



independent company again.

BY TRADITION EXPERIENCED.









ing its disincorporation from the AEG Group in 1999, LDW became an





COMMITTED TO THE FUTURE.











Our current scope of supply

The LDW product range is broad, universal and adapted to your specifications

LDW represents custom-made machines using the best technology, from which you will benefit for many years.



Three-phase motors

Asynchronous motors from 1,000 up to 35,000 kW

Synchronous motors from 4,000 up to 50,000 kW

Voltages up to 15 kV, up to 35,000 kW with constant speed

Voltages up to 10 kV, up to 50,000 kW with variable speed

All prevalent types of construction, cooling and protection

Fluid jacket cooling up to outputs of 10,000 kW

Explosion-proof design according to Ex "px", Ex "pz", Ex "e" and Ex "nA"



Synchronous generators

Synchronous generators from 4,000 kVA up to 60,000 kVA at 1,500 rpm

Synchronous generators from 4,000 kVA up to 25,000 kVA at 150 rpm

Voltages up to 15 kV

Compound excitation or PMG-excitation, analog and digital

High efficiency even under the most difficult environmental conditions

All prevalent types of construction, cooling and protection

Explosion-proof design according to Ex "px", Ex "pz", Ex "e" and Ex "nA"



Direct-current machines

Direct-current motors and generators from 10 up to 8,000 kW

Shaft heights: 132 up to 1,000 mm in angular designs, beyond in round designs

Torque range: 20 up to approx. 900,000 Nm

Rotational speeds up to 10,000 rpm

High control dynamics

All prevalent types of construction, cooling and protection

Explosion-proof design according to Ex "px" and Ex "pz"



Compact-Asynchronous motors

Compact AC motors from 150 up to approx. 2,500 kW at 1,500 rpm

Shaft heights: 200, 250, 315, 400, 450 mm

As variable speed drives and for frequency converter supply

Rotational speeds up to 9,000 rpm

High torque in combination with a small frame size

High overload capacity

All prevalent types of construction, cooling and protection

Overview on selected applications:



DC-motor for a mine winder

Application:

DC-motor as drive for a mine winder in a copper mine. The new adapted motor replaced a 70 year old British DC-motor.

Power: 1,640 kW Speed: 20 – 285 rpm Weight: 22,140 kg



Asynchronous motors as driver in a refinery

Application:

Motors as driver used for a reciprocating compressor for gas compression in a refinery process.

Power: 7,200 kW Speed: 323 rpm Weight: 51,000 kg



Synchronous generators for hydro power turbines

Application:

Generators for power generation in a cavern power plant with pelton turbines.

Power: 15,000 kVA Speed: 1,000 rpm Weight: 43,000 kg Runaway speed: 1,800 rpm



Synchronous motors for nacelle test bench

Application:

Motors as driver for wind power nacelles.

Power: 2 x 5,000 kW Speed: 11 rpm Weight: 532,000 kg



Compact asynchronous motors for ship to shore cranes

Application:

Compact asynchronous motors as hoist motors in various designs with an output range from 300 up to 650 kW with different rotational speeds.



DC motor for a rolling mill

Application:

DC motor as main driver replaced the old tandem motor from 1908.

Power: 3,800 kW Speed: 0 – 52/120 rpm Weight: 110,000 kg

Photograph sources applications:

15,000 kVA synchronous generators for hydro power turbines:
ZeK

Compact asynchronous motors for ship to shore cranes:
Liebherr Container Cranes Ltd.

7,200 kW asynchronous motors as drive for a refinery:
Howden Thomassen Compressors BV

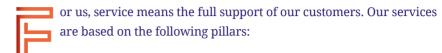
2 x 5,000 kW synchronous motors for nacelle test bench:

Fraunhofer-Institut für Windenergie und Energiesystemtechnik IWES



Comprehensive services

personal and competent



- Product care and after-sales service
- Repairs
- Spare parts
- Diagnostics
- Test bay use

With us, you and your machines are in technologically competent and experienced hands.

Life-Cycle-Management

professional and sustainable



rom the project planning stage through the end of their operational life we offer a range of concepts for economical and fault-free operation of your machines:

- Operation orientated maintenance concepts
- Trend measurements relating to wear behavior of the machine components
- Revisions of machines at LDW or at site
- Stocking spare parts for shorter downtimes
- 24 hour service
- Retrofitting of old machines





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