



**Drive is our passion**

Competence since 1927

High-voltage motors  
Low-voltage motors  
Direct-current motors  
Transformers  
Frequency converters

MENZEL Elektromotoren GmbH  
Neues Ufer 19-25 | D-10553 Berlin | Germany  
Tel: +49 (0)30 34.99.22.0 Fax: +49 (0)30 34.99.22.66  
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[www.menzel-elektromotoren.com](http://www.menzel-elektromotoren.com)

# About Us



- Founded 1927
- Sales worldwide
- Certified according to DIN EN ISO 9001
- Vast stock on more than 22,000 m<sup>2</sup> in 3 warehouses
- 20,000 motors ready for delivery from stock
- 2,000 high voltage motors available from stock
- Special motors of all kinds
- Custom production according to specifications
- Large repair shop in Berlin
- Maintenance & Service

For more information, visit us at:

**[www.menzel-elektromotoren.com](http://www.menzel-elektromotoren.com)**

For press items, go to the download area of our homepage!

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Reg.-Nr.: Q1 0102019

# About Us

We are a medium-sized company specialising in drive engineering. For more than 80 years now, we have supplied electric engines and transformers—be they new, modified or overhauled in our own repair shop—on short notice.

Our business focus is to offer the fastest possible delivery of large electric machinery (even custom equipment) from our in-house stock, which includes more than 20,000 motors in a power range of up to 8,000 KW. We will also custom-build motors according to your specifications. Short production times, as well as qualified engineering, highly skilled employees, and modern shop and testing equipment form the basis for the reliable work our customers have come to appreciate.

Our competitive warehouse management is quick to satisfy any request for information regarding technical data or just the storage location of each motor, thus enabling us to address even the most complex technical issues by reliable ways and means at any time.

Time-proven logistics operate in sync with a heavy-duty rack system to ensure speedy stock withdrawals. What is more, our emergency services for operational stoppage provides access to our inventory even outside the regular business hours and on weekends.

# From Stock

Find just what you need on more than 22,000 m<sup>2</sup> in 3 warehouses:

**Squirrel cage motors** of up to 8,000 KW

**Slip ring motors** of up to 5,000 KW

**Flange-mounting motors** of up to 5,000 KW

**Direct-current motors** of up to 2,000 KW

**Three-phase transformers** of all power ranges

**Frequency converters** and **frequency converter-proof drives**

**Frequency changer**, even custom-built according to your specifications



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**MENZEL**  
ELEKTROMOTOREN



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# High-Voltage Motors, in Stock

- Motor of up to 8 MW in stock
- For hire
- Squirrel cage motors
- Slip-ring motors
- Synchronous motors
- Many configurations
- Many types of cooling systems
- Custom modifications
- Overhauls
- Windings
- Testing



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# High-Voltage Motors, Production

We stock and build high-voltage motors, squirrel cage or slip ring, normally for nominal voltages between 3 KV and 11 KV. Custom constructions deviating from these specs are possible for up to 13.8 KV in nominal voltage. Standard frequencies are 50 and 60 Hz.

## We build high-voltage motors with the following standard configurations:

IM B3 configuration for horizontal installation

IM V1 configuration for vertical installation

Custom configurations are possible; for details, please contact our plant in Berlin.

## Standard types of cooling systems:

IC 411 (ribbon-cooled)

IC 611 (using air-air heat exchanger)

IC 81 W (using air-water heat exchanger)

IC 01 (open circuit air-cooled)

## Standard degrees of protection:

IP 55 (fully enclosed)

IP 23 (open construction, open circuit air-cooled, drip-proof, suitable for indoor installation only)

## Ambient conditions according to IEC standard (deviations from these, while by all means possible, need to be specified):

Ambient temperature 40°C max.

No direct exposure to sunlight

Relative humidity 80% max.

Installations at elevations of 1,000 m above sea level or less

Voltage stability:  $\pm 5\%$

Frequency stability:  $\pm 2\%$



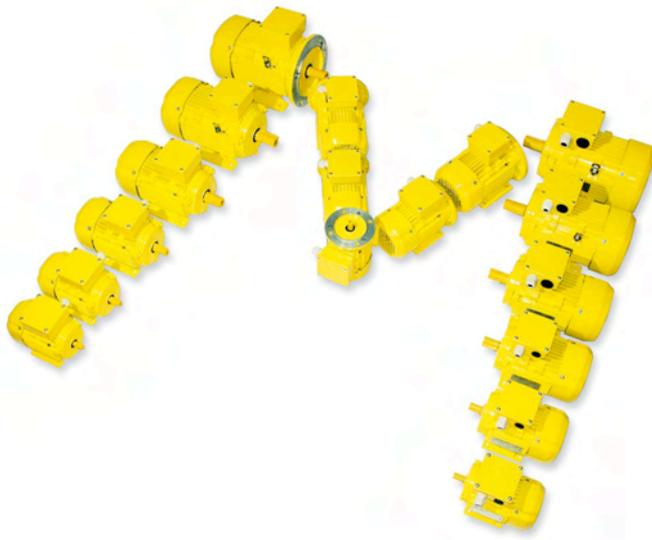
# Low-Voltage Motors, in Stock

The standard three-phase motors of the MEBKA series (aluminium housing) and the MEBK (grey cast-iron housing) satisfy the DIN IEC standard series specifications. We will do custom modifications and rebuilding of this type of motor on short notice. Frequent conversions/modifications include:

- Add-on of a separate fan for converter application
- Add-on of tachometer
- Modification of fixing dimensions
- Retrofitting of special temperature probes
- Special bearings

## Always in stock:

Three-phase low-voltage motors with an output up to about 1,000 KW, plus motors of other European makes. Please contact us for your specific needs!



# Low-Voltage Motors, Production

Low-voltage motors with standard configurations are always in stock. Also in stock are three-phase low-voltage motors, as squirrel cage or slip-ring model. For the technical specifications of our three-phase squirrel cage motors, please confer our standard motors catalogue.

## Standard degrees of protection:

- IP 55 (fully enclosed)
- IP 23 (open construction, open circuit air-cooled, drip-proof, suitable for indoor installation only)

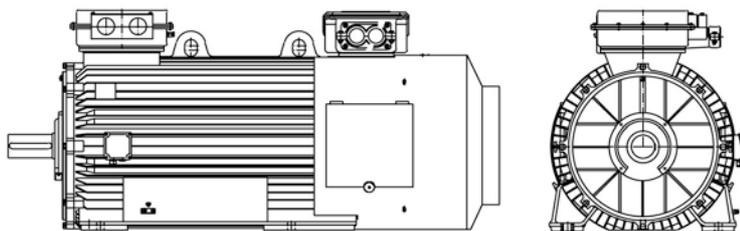
## Main deployment scenarios for our low-voltage squirrel cage motors:

- Vents
- Pumps
- Compressors



## Main deployment scenarios for our low-voltage slip-ring motors:

- Mills of all kinds
- Crane systems
- Vents
- conveyor belts



Also, any other deployment that requires a high breakaway torque, as well as any deployment in a weak power system that requires a limitation of the starting current.

# Direct-Current Motors

- Up to 2,000 KW
- In stock
- Many types of cooling systems
- For hire
- Custom modifications
- Many configurations & degrees of protection
- Power converter
- Custom production according to specifications
- Please ask for our catalogue!



# Direct-Current Motors, Production

For the technical data of our direct current shunt-wound motor of the MEBGVFF standard series, see our direct-current motors catalogue. Motors of size 112 to 280 mm are always directly available from stock.

Custom configurations available within very short delivery periods. Cooling systems, as well as any other add-on, can be modified on very short notice.

Upon request, we will also deliver motors with compensation-field winding. We will build entire motors according to your specification, or just spare components for existing systems. For details, please contact our Berlin plant.

**Ambient conditions according to IEC standard (deviations from these, while by all means possible, need to be specified):**

- Ambient temperature 40°C max.
- No direct exposure to sunlight
- Relative humidity 80% max.
- Installations at elevations of 1000 m above sea level or less

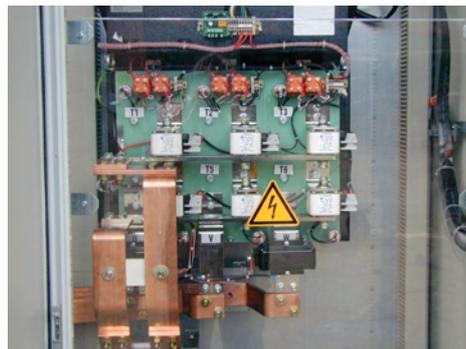


# Service



No matter what kind of support you require in terms of drive technology, we are here to serve you! This includes, among other things:

- **Hire equipment** to bridge downtimes
- **Renting** for Testfields
- **Start-up specialists**
- **Specialists** for trouble-shooting on location
- **Mobile technology** to remedy failures on location
- **Trial runs** at our test bay



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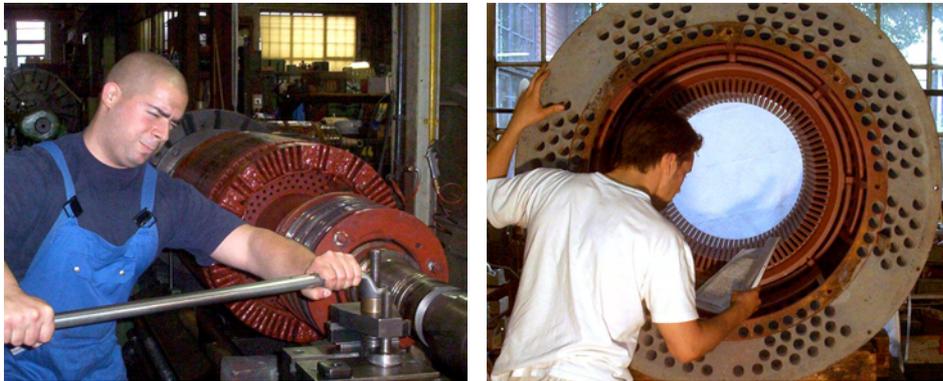
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# Our Berlin Plant

More than 50 experienced and creative engineers and technicians are ready to process your order at our modern plant in Berlin. Here, we handle mostly express adjustments and modifications.



## Lathes

Up to 10 t / top width of 6 m

## Dynamic balancing machines

Up to 3.5t

## Impregnating plant and drying ovens

For shaft heights of up to 800 mm

Our **test bay** is powered by a separate **diesel generator** unit:  
50/60Hz / AC up to 11kV **DC** up to 1,000V / 2,000A

Naturally, our plant and its experts will also take care of your repairs, overhauls, maintenance work and start-ups.

# References

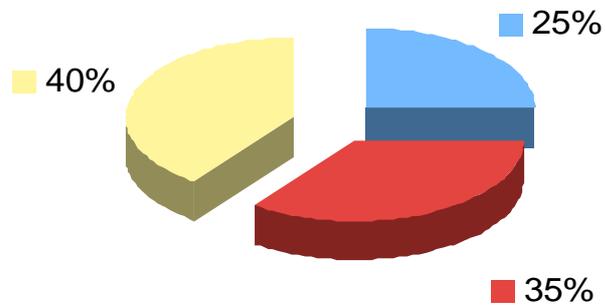
Our customers include prospering businesses in all kinds of industries worldwide. Obviously, you're in good company when doing business with us!

- ABB, industrial group
- ALSTOM POWER, utilities
- BASF, chemicals
- BMW, automobiles
- BOMBARDIER TRANSPORTATION, rail vehicles
- GILLETTE, consumer goods
- GOODYEAR DUNLOP, tyres
- HOESCH, steel
- LAFARGE, cement
- PORSCHE, automobiles
- RWE, power
- SALZGITTER INTERNATIONAL, steel
- SHELL DEUTSCHLAND OIL GMBH, industrial group
- SIEMENS AG, industrial group
- THYSSEN KRUPP STAHL AG, steel
- TORORO CEMENT, cement
- VOLKSWAGEN, automobiles

For the most recent references, please visit our news section at:

**[www.menzel-elektromotoren.com](http://www.menzel-elektromotoren.com)**

# Sales by Region



-  **Germany**
-  **Europe** (excluding Germany)
-  **Global** (overseas exports outside Europe)

# Contact

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## Imprint:

District Court of Berlin-Charlottenburg  
Commerical Register No. HRB 22534

### *Managing Directors:*

Kurt Menzel, cert. en.

Gisela Menzel

Mathis Menzel, cert. en.

Equity capital: € 511,300.00

For more details or inquiries regarding our products and services,  
please contact us any time or visit us on location in Berlin.

**For press items, please see the download section at:**  
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