

Dear Customers,

following you will find 19 References for deliveries in 2006. The shown references are only a small sample of our scope of supply, please do not hesitate to contact us in case of special requirements!

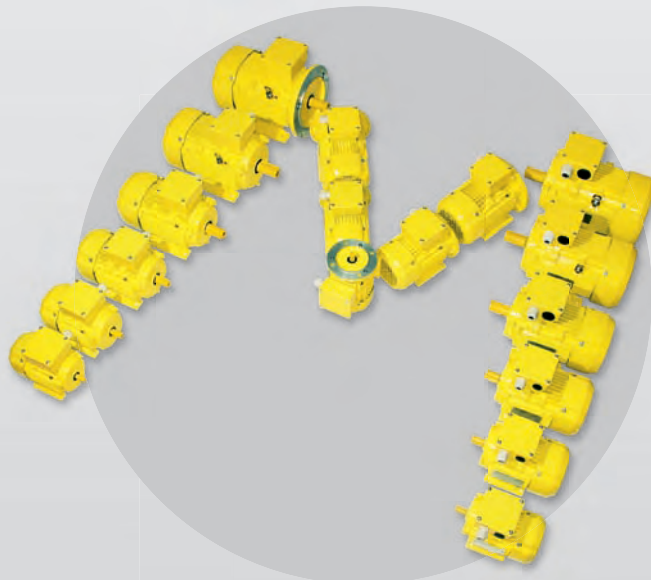
Menzel Elektromotoren is your partner for Industrial motors since 1927!

Our services include the sale, maintenance, repair and, of course, the hire of any of more than 20,000 new and used machines in stock, all available on short notice.

- **Low voltage motors** up to 1.000 KW
- **High voltage motors** up to 8.000 KW
- **Squirrel cage motors** up to 8.000 KW
- **Slip-ring motors** up to 3.000 KW
- **Flange-mounting motors** up to 5.000 KW
- **Direct current motors** up to 2.000 KW
- **Three-phase transformers** of all power ranges
- **Frequency converters** and **frequency converter-proof** drives
- **Frequency changers** – also custom construction acc. to your specs

Naturally, we will customize any type of machinery to meet your specifications in our in-house repair shop, for a low price and in no time at all.

In case of interest, questions or special requirements please do not hesitate to contact us!



Slip-Ring Motor from Stock Inventory

Menzel Elektromotoren supplied within 24 hours from Stock inventory to a German Paper manufacturer a Slip-Ring motor to drive a Grinder:

- 3phase-Slip-Ring-motor
- frame: 560 mm
- rated power: 2300 KW
- rated speed: 1486 rpm
- rated Voltage: 6.000 Volts
- Originally: IP 55 Watercooled
- Modified to: IP 23 Drip-proof
- sleeve-bearings for forced lubrication
- weight: 7.700 Kg

Within 24 hours after telephon order the motor was delivered after beeing tested in the Menzel-Testfield. Suitable Switches for the starter as well as a suitable forced lubrication for the bearings where supplied with the motor.



Special construction for Africa

Menzel Elektromotoren supplied in November 2006 from Stock inventory to a african customer a Squirrel-cage motor with the following technical data:

- 3phase-Squirrel-cage-motor
- frame: 450 mm / modified to 630 mm
- rated power: 440 KW
- rated speed: 1488 rpm
- rated Voltage: 5.500 Volts
- IC 611 Air-cooled
- weight: 3.510 Kg

The motor was modified to replace identical the existing one.



Compressor-drive from Stock

Menzel Elektromotoren supplied within 4 hours from Stock inventory to a french customer a Squirrel-cage motor as compressor-drive:

- 3phase-Squirrel-cage-motor
- frame: 500 mm
- rated power: 900 KW
- rated speed: 1486 rpm
- rated Voltage: 10.000 Volts
- IP 23 Drip-proof
- weight: 3.650 Kg

Within the same night the motor was delivered and put into operation through the Menzel-Logistik.



Motor Generator Set for Test-field

Menzel Elektromotoren manufactured for an Asian Customer a Motor Generator Set for Testfield Application to Customers specification. Motor and Generator where available from Stock and where mounted on a frame and delivered in a Container.

The picture was taken in the Menzel Testfield during final tests.

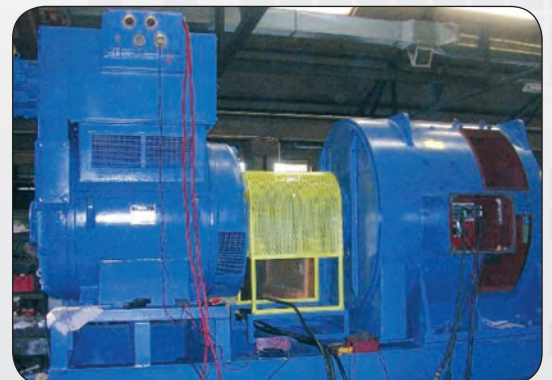
Motor:

- DC Motor
- rated Power: 630 KW
- rated Voltage: 560 Volt
- rated Speed: 700-1100 U/min
- Excitation Voltage: 180 Volt
- Equipped with:
forced ventilation, Tachogenerator, PT100 in Statorwinding

Generator:

- brushless Synchronous Generator
- rated Power: 650 KVA
- rated Voltage: 500 Volts / 3Phase
- rated Speed: 720-1080 rpm

total weight: 11.240 Kg



8 identical Slip-Ring-Motors for Mining Industry

Menzel Elektromotoren supplied to a German Mining Company 8 identical slip-ring-motors. The first 3 pieces from Stock-Inventory were supplied in September, the next 5 will be delivered in December.

technical data:

- medium-voltage slip-ring-motor
- frame: 560 mm
- rated power: 900 KW
- rated Voltage: 6.000 Volts
- rated speed: 985 rpm
- Protection: IP 55
- weight: 6.800 Kg



Frame 560 ribbon-cooled ex stock

Menzel Elektromotoren supplied in September 2006 from Stock inventory to a British plant-constructor a Squirrel-cage motor with the following technical data:

- 3phase-Squirrel-cage-motor
- frame: 560 mm
- rated power: 2.250 KW
- rated speed: 2992 rpm
- rated Voltage: 6.600 Volts
- IC 411 ribbon-cooled cast-iron frame
- weight: 10.500 Kg

Due to customer requirements the motor was modified in the Menzel's workshop with all winding-ends lead out. The Starpoint now is done outside the motor.



Mill-Drive from Stock

Menzel Elektromotoren supplied from Stock inventory a 6-poles slip-ring-motor with suitable Rotor starter. The completely automated starter was manufactured to customers requirements including integrated short-circuit-switch. The customer already took an option for 2 more identical, also from stock available motors. technical data:

- medium-voltage slip-ring-motor
- frame: 560 mm
- rated power: 1000 KW
- rated Voltage: 6.000 Volts
- rated speed: 991 rpm
- Protection: IP 55
- weight: 7.400 Kg plus 1.850 Kg rotor starter



Modifikation of DC Motors

Menzel Elektromotoren modified with short delivery motors from the own stock inventory to replace japanese DC motors in a rubber manufacturing plant in Africa. All dimensions and electrical values are identical!

Technical Data:

- 1 DC Motor frame 355mm
- rated power: 300 KW
- rated speed: 1150 rpm
- 1 DC Motor frame 250 mm
- rated power: 90 KW
- rated speed: 1150 rpm



16.000 KW from stock inventory

Menzel Elektromotoren supplied in August 2006 from Stock inventory to a German plant-constructor a Squirrel-cage motor with the following technical data:

3phase-Squirrel-cage-motor
frame: 900 mm
rated power: 16.000 KW
rated speed: 1493,5 rpm (4-poles)
rated Voltage: 6.600 Volts
with air-water-heat-exchanger
weight: 25.500 Kg

The picture was taken in the test-field.



DC-Motor within 1 hour

Menzel Elektromotoren supplied for a Rubber-manufacturer from Stock inventory the following DC Motor. The Motor was shipped within 1 hour after receipt of Order.

technical data:

- DC-Motor with Compound-winding
- Frame size: 400 mm
- Power: 0-775 / 775 / 600 KW
- permissible overload 15 sec.: 1,8
- Voltage: 0-800 / 800 / 800 Volt
- speed: 0-915 / 1190 / 1440 min-1
- excitation: 260 Volts / 16 A
- weight: 4.130 Kg

The cooling-air supply is done through air-ducts in the customers plant.



9 identical Motors from Stock inventory

Menzel Elektromotoren supplied from stock inventory to a greece customer 9 identical squirrel-cage-motors. The customer, a pump manufacturer, was in trouble due to the late delivery of his former supplier. Menzel Elektromotoren supplied from stock inventory and won a new satisfied customer!

technical data:

- low-voltage squirrel-cage motors
- manufacturer: Menzel
- type: MEBK-315-LA4
- rated Power: 160 KW
- rated Voltage: 400 / 690 Volt
- rated Speed: 1500 min-1
- standard frame 315 L

and what can we do for you?

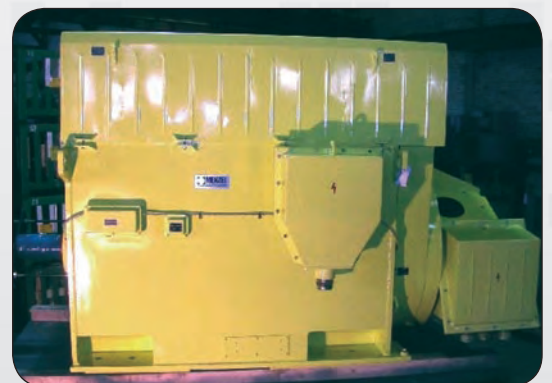


Duplicated Slip-Ring-Motor 2.300 KW

Menzel Elektromotoren manufactured for an Arabic customer a new Slip-Ring-Motor with identical dimensions as the motor to be replaced due to thermal problems.

technical data:

- medium-voltage-slip-ring-motor
- type: MEBSLW 630 - 6
- frame: 630 mm
- rated power: 2.300 KW
- rated voltage: 6.600 Volts
- rated speed: 994 min-1
- Protection: IP 55
- Insulation class H (stator & rotor)
- Ambient Temperature: 60°C



10poles Slip-Ring-Motor from Stock inventory

Menzel Elektromotoren supplied by airfreight to Argentina a 10 poles slip-ring-motor with suitable Rotor starter. Through availability from Stock the stand-still time could be decreased to only some days!

technical data:

- medium-voltage slip-ring-motor
- frame: 560 mm
- rated power: 820 KW
- rated Voltage: 6.600 Volts
- rated speed: 594 rpm
- Protection: IP 55
- weight: 8.450 Kg incl. rotor starter



DC Motor from Stock

Menzel Elektromotoren delivers everyday DC Motors from Stock to worldwide customers to decrease the break-down times. Wide range of DC motors in new and used are available. In April the following motors was delivered from Stock:

- DC Motor
- frame: 800 mm
- rated Power: 2210 KW
- Armature: 800 Volts / 2895 Amps
- rated Speed: 800 / max. 1100 rpm
- Excitation: 92 Volts / 27,8 Amps
- delivered with air-water-heat-exchanger - IP 54



10poles Medium-Voltage Motor from Stock

Menzel Elektromotoren delivered from stock inventory a brandnew Medium voltage motor for an urgent break-down to decrease the stand-still time to only a few days.

technical data:

medium-voltage-squirrel-cage-motor

frame: 710 mm

rated Power: 2.190 KW

rated Voltage: 6.000 Volt

rated Speed: 596 min-1

with Roller-bearings

weight: 16,8 t



Medium-Voltage Motor from Stock

Menzel Elektromotoren delivered from stock inventory a medium voltage motor for the testfield of an european gear-manufacturer with the following data:

- medium-voltage-squirrel-cage-motor
- frame: 900 mm
- rated power: 3.100 KW
- rated voltage: 6.000 Volt
- rated speed: 1000 rpm
- anti-clockwise sense of rotation
- with sleevebearings for forced lubrication
- weight: 15,4 t



Flange-modification of Medium-Voltage-Motor

Menzel Elektromotoren modified for a European Industrial-Service Company a Medium-Voltage-Motor from footmounting B3 to flangemounting B5 vertikal. The Motor was in Footmounting available from Menzel's stock inventory and was with short delivery modified. The flange was manufactured at Menzel's plant in Berlin and fitted to the drive-side-endshield as well as the bearings and bearingchambers where modified for vertikal mounting.

The statorwinding was reconnected from 6,6 KV to the required 3,3 KV.



Motor Generator Set for Testfield Application

Menzel Elektromotoren manufactured for an Asian Customer a Motor Generator Set for Testfield Application to Customers specification within 3 weeks. Motor and Generator where available from Stock and where mounted on a frame and delivered in a Container.

Motor:

- DC Motor
- rated Power: 0-1000 KW
- rated Voltage: 0-480 Volt
- rated Speed: 0-1800 U/min
- Excitation Voltage: 200 Volt
- Equipped with:
forced ventilation, Tachogenerator, PT100 in Statorwinding

Generator:

- brushless Synchronous Generator
- rated Power: 0-1200 KVA
- rated Voltage: 0-2000 Volts / 60 Hz / 3Phase
- rated Speed: 0-1800 rpm

total weight: 9.000 Kg



Rubber-industry November 2005

Menzel Elektromotoren delivered from Stock inventory for an African Rubber manufacturer 2 Slipringmotors by air transport. The Motors were equipped with watercoolers and to the required fixing dimensions modified.

Technical Data:

- 1. 3Phase Slip-ring-motor
- Frame: 500 mm
- Rated Power: 551 KW
- Statorvoltage: 3.300 Volts
- Rated Speed: 490 rpm
- Rotorvoltage: 972 Volts

- 2. 3Phase Slip-ring-motor
- Frame: 560 mm
- Nennleistung: 1120 KW
- Statorvoltage: 3.300 Volts
- Rated Speed: 990 rpm
- Rotorvoltage: 1320 Volts

