

# Bevel Geared Motor

**SERIES BK**



Three phase bevel mounted geared motors for driving machines and equipment of all types

## HIGH EFFICIENCY!

**Drive solutions from 0.03 kW to 75 kW**

### GEARBOX

- Torque: 80 Nm ... 18,500 Nm
- Ratios:  
two-stage: 3.67 - 108.60  
three-stage: 7.29 - 175.70
- Versatile installation possibilities
- Completely enclosed and dust-tight
- Protection against water jets
- Lubrication change first  
- after 15,000 hrs (mineral oil)  
- after 25,000 hrs (synthetic oil)
- Low noise gearing

### MOTORS

- Power: 0.03 kW ... 75 kW
- Mains supply: 110 V ... 690 V, 50/60 Hz
- Enclosure: IP 54 (standard only for D..04 and D..05)  
IP 65 (standard)  
IP 66 - IP 68 (optional)
- Connection: Standard with CAGE CLAMP®\*

### OPTIONS

- Connecting with plug connectors
- With integrated inverter up to 7.5 kW
- IE3 up to 75 kW with ASM
- IE4 up to 11 kW with PMSM

### BRAKES

- Enclosure IP 65 (standard)  
IP 66 and IP 68 (optional)
- Performance and application optimised brake range
- Maintenance friendly design

### STANDARDS

- ATEX
- CCC
- CE marking
- CSA
- EAC
- INMETRO
- ISO14001
- ISO9001
- OHSAS18001
- UL

### GENERAL

- Corrosion protection: C1 ... C5, IM2 based on DIN EN ISO 12944-5



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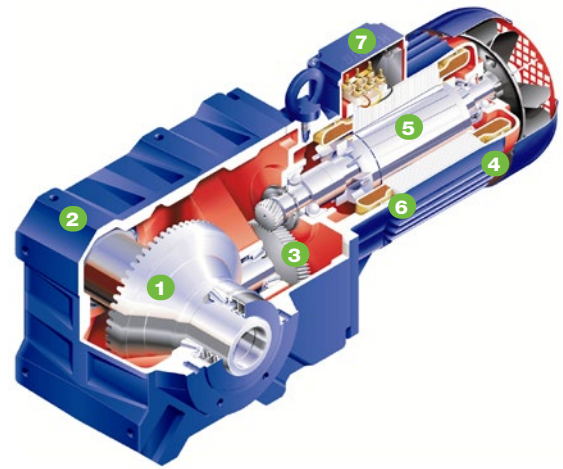
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## HIGH EFFICIENCY!

Bauer Gear Motor supplies modern drive solutions for all industry sectors in which material must be moved.



### 1 DESIGN

- As standard in 2-stage design, as from BK60 3-stage.
- Higher ratios available through attachment of a purpose built pre-stage or pre-connected gearbox.
- Many installation possibilities - foot or flange with single or double shaft end, hollow shaft with key or shrink disc design with torque arm - make these angular gear boxes an ideal space saving drive element.
- Symetric housing design of the 2-stage gearboxes gives the user many further installation possibilities.

### 2 HOUSING

- State-of-the-art gearbox housing designed for operation under harsh conditions.
- Compact closed housing is ideal for preventing lubricant loss and dirt build-up.
- High tensile cast housing.
- Vibration-free housing, noise absorbent and resistant against chemical effects.
- The housing is machined in a single clamping process.
- Stator housings with casing and cooling fins are manufactured in one casting and ensure efficient heat dissipation.
- Motor housings, bearing covers and terminal boxes made of corrosion resistant aluminium die casting.

### 3 GEAR WHEELS

- Gear wheels made of high tensile and case hardened steel.
- Highly wear resistant through flank hardness of 60-62 HRC.
- Impervious to shock.
- Tooth flanks shaved, hobbled or ground.
- Strong, non-flexible pinion shafts and bearings guarantee exact tooth meshing.

### 4 STATOR WINDING

- The stator winding is manufactured from high quality enamelled copper wire with state-of-the-art three layer insulation in the groove and winding head.
- The stator winding is impregnated with a damp-proof and tropical safe resin.
- The electrical design of the motor is adapted to the gearbox.

### 5 ROTOR

- Aluminium die cast cage rotor ensures a high reliability at high starting torques and low starting currents.
- Pull-up torques are mostly avoided.

### 6 TERMINAL BOX

- Spacious terminal box also completely sealed against dust and water spray.
- A large measure on safety through CAGE CLAMP®\* connection technology on the winding ends and motor connection.
- Handy terminals allow easy connection.

### 7 CAGE CLAMP

- CAGE CLAMP connection technology as standard.
- Optional with conventional terminal board



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