

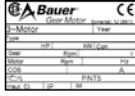

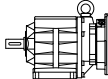
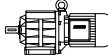
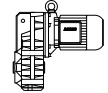
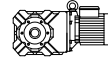

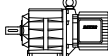
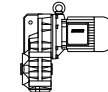
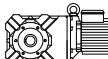


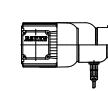
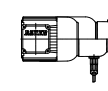
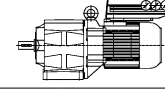



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**Fast - Flexible - Reliable**



...As one of the leading manufacturers of intelligent drive technology, we have lived this motto for nearly 90 years.

Innovative products, modern processes and responsible employees realise this motto with the target of conserving resources and the environment together with efficient energy use over our whole field of activity.

The success of our efforts assumes that we know and master our customers applications and the requirements on drive technology.

We do this perfectly - from engineering, design and calculation through procurement, production and logistic to special application knowledge in the most important branch sectors.

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# Catalogue Geared Motors

## General Product Overview

### Helical-Geared Motor Series BG



Compact and economical inline helical geared motors for long lifetime under arduous conditions.

- Motor power from 0.03 kW to 75 kW
- 13 gearbox sizes for torques from 20 Nm to 18500 Nm
- New attachment possibilities with low design height
- High efficiency through 2 stage base design
- Enclosure IP65 as standard

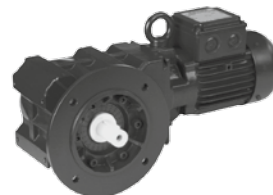
### Shaft-Mounted Geared Motor Series BF



Shaft-mounted geared motors with integrated torque arm are easily integrated and economically applied.

- Motor power from 0.03 kW to 75 kW
- 10 gearbox sizes for torques from 90 Nm to 18500 Nm
- Gearbox housing with integral torque arm
- High efficiency through 2 stage base design
- Enclosure IP65 as standard

### Bevel-Geared Motor Series BK



Power-dense, right-angle, bevel-geared motors ensure the highest efficiency especially when used with frequency inverters.

- Motor power from 0.03 kW to 75 kW
- 10 gearbox sizes for torques from 80 Nm to 18500 Nm
- The right angle gearbox with universal attachment possibilities
- High efficiency through 2 stage base design
- Enclosure IP65 as standard

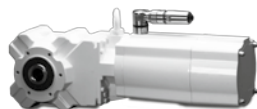
### Small Industry Geared Motors KIG



Gearbox and motor build a compact unit. Small industrial gear motors are space-saving and versatile and can be supplied for any mounting position.

- Available for three-phase and single-phase
- Lightweight, compact drives help to reduce the weight of the machine
- Saves space and reduces costs, especially for conveyor systems
- Motor connection via CAGE CLAMP<sup>®</sup> is vibration-proof and saves you money
- Motor parts for many installation situations and supply voltages
- In self- or non-ventilated design

### AsepticDrive



Geared motors for the food & beverage industry as well as for all applications with high cleaning intensity or ambient conditions such as dust, fluff etc.

- Motor without fan and cooling fins
- Motor power
 

DA08	0.25 kW	-0.55 kW
DA09	0.37 kW	-1.5 kW
DA11	1.1 kW	-2.2 kW
- Available with helical, parallel shaft, bevel and worm gears
- Motor winding in Iso Class F with thermistors as standard
- Enclosure IP67 and IP69K with acid and alkali resistant coating as standard
- Motor connection through standard stainless steel plug connector

### CleanDrive



Geared motors for the Food & Beverage industry in enclosure IP66 with acid and alkali resistant coating as standard.

- Motor without fan and cooling fins
- Motor power
 

DA05	0.06 kW	-0.25 kW
DA08	0.25 kW	-0.55 kW
- Motor winding in Iso Class F with thermistors as standard
- Motor connection through standard terminal box or stainless steel cable gland

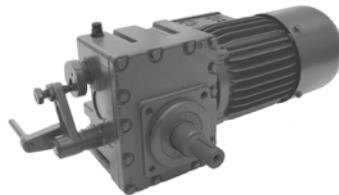
### Worm-Geared Motor Series BS



Economical, right-angle, worm-g geared motors install easily in the tightest applications.

- Motor power from 0.03 kW to 5.5 kW
- 8 gearbox sizes for torques from 25 Nm to 1000 Nm
- Hollow shaft version already available from 25 Nm
- High loadable worm gearing for long lifetime
- Enclosure IP65 as standard

### Overhead Monorail Geared Motor Series BM



A completely new range of monorail drives for light and heavy load monorail applications.

- Torques from 30 Nm up to 680 Nm
- Radial force up to 25.000 N
- Flexible mounting on the running gear
- Enclosure IP65 as standard
- Improved efficiency – lower energy consumption – ideal as travelling drives
- Reverse motion of the gearbox is possible

### Frequency Converter Geared Motor Series Eta-K



Eta-K solutions are combinations of geared motors and frequency converters. They provide compact drive solutions with infinite speed control.

- Saving space and costs
- No shielded motor cables required
- Mechatronic adaption of VLT drive and geared motor
- Motor power range 0.12 kW up to 7.5 kW
- Supply voltage 3 x 380 V - 480 V
- Compliance to all EMC standards
- Standard RS485-Interface, optional Profibus-Interface
- Zone 2 and 22 possible
- UL approved

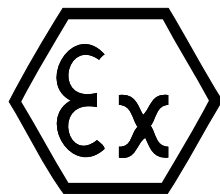
### CAGE CLAMP®



The use of Bauer geared motors up to 30 kW with CAGE CLAMP® connection technology reduce costs both during installation and in service cases.

- Cost reduction during connection
- Simple handling
- Cable core diameters up to 25 mm<sup>2</sup> without wire-end sleeves
- Cost saving in material and tooling
- Vibration and shock resistant
- approved

### Explosion-proof BAUER Geared Motors



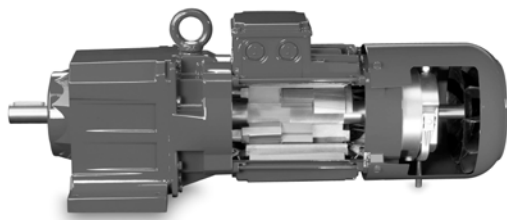
Geared motors suitable for use in explosive areas:

GAS	Zones 1, 2		
DUST	Zones 21, 22		
DXD	Zone 1,	II 2 G Ex d(e) IICT3...T4 Gb	0,12... 75 kW
DXE	Zone 1,	II 2 G Ex e IICT1...T4 Gb	0,12... 11 kW
SXE	Zone 1,	II 2 G Ex e IICT1...T4 Gb	0,55 ... 15 kW
DXN	Zone 2,	II 3 G Ex nA IIC T3 Gc	0,03... 30 kW
DXC	Zone 21,	II 2 D Ex tb IIICT160° C IP66 Db	0,03... 30 kW
DXC	Zone 21,	II 2 D Ex tb IIICT120° C IP66 Db	0,03... 22 kW
SXC	Zone 21,	II 2 D Ex tb IIICT120° C...160° C IP66 Db	
DXS	Zone 22,	II 3 D Ex tc IIICT120° C...160° C IP65 Dc	0,03... 30 kW
DXD	Zone 1/21,	II 2 G Ex d(e) IIC T3...T4 Gb	
		II 2 D Ex tb IIICT120° C...160° C IP65 Db	0,12... 75 kW
DXE	Zone 1/21,	II 2 G Ex e IICT1...T4 Gb	
		II 2 D Ex tb IIICT120° C...160° C IP66 Db	0,12... 11 kW
SXE	Zone 1/21,	II 2 G Ex e IICT1...T4 Gb	
		II 2 D Ex tb IIICT120° C...160° C IP66 Db	0,55... 15 kW
DXS	Zone 2/22,	II 3 G Ex nA IICT1...T3 Gc	
		II 3 D Ex tc IIICT120° C...160° C IP65 Dc	0,03... 30 kW

# Catalogue Geared Motors

## General Product Overview

### Energy Saving Geared Motors



PN [kW]	IE1*	IE2*	IE3*	IE3*	IE4*
0,55	DSE08MA4	DHE08LA4	DPE08LA4		
0,75	DSE08LA4	DHE08XA4	DPE08XB4		SU08MA4
1,1	DSE09SA4	DHE09LA4	DPE09XA4		S08MA4
1,5	DSE09LA4	DHE09XA4	DPE09XA4		S08LA4
2,2	DSE09XA4	DHE09XA4C	DPE09XA4C	S08LA4	S09SA4
3	DSE11SA4	DHE11MA4	DPE09XB4C	S09SA4	S09XA4
4	DSE11MA4	DHE11LA4	DPE11LA4	S09XA4	S11SA6
5,5	DSE11LA4	DHE11LA4C	DPE11LB4	S11SA6	S11MA6
7,5	DSE13MA4	DHE13LA4	DPE11LB4C	S11MA6	S11LA6
9,5	DSE13LA4	DHE16MB4	DPE13XA4	S11LA6	
11	DSE16MB4	DHE16LB4	DPE16LB4		
15	DSE16LB4	DHE16XB4	DPE16LB4		
18,5	DSE16XB4	DHE18LB4	DPE16XB4		
22	DSE18LB4	DHE18XB4	DPE18LB4		
30	DSE18XA4	DHE20LA4	DPE18XB4		
37	DSE22SA4	DHE22SA4	DPE20LA4		
45	DSE22MA4	DHE22MA4	DPE22SA4		

\*at 1500 1/min

η	Advantages	Your benefits
Without	<ul style="list-style-type: none"> <li>Motor design according to duty</li> <li>Small installation volume and minimum weight</li> <li>Higher motor powers</li> </ul>	<ul style="list-style-type: none"> <li>Economical</li> <li>Small installation space</li> <li>Efficient motor utilisation</li> <li>Smaller motor frame size</li> <li>Tailored to customer application</li> </ul>
IE1	<ul style="list-style-type: none"> <li>Standard efficiency in continuous operation</li> <li>Small installation volume and minimum weight</li> </ul>	<ul style="list-style-type: none"> <li>Economical</li> <li>Small installation space</li> <li>For general-purpose use inside or outside Europe</li> </ul>
IE2	<ul style="list-style-type: none"> <li>Higher efficiency in continuous operation</li> <li>Higher start-up torque</li> </ul>	<ul style="list-style-type: none"> <li>Economical</li> <li>Small installation space</li> <li>Up to 34 % more energy savings compared to IE1</li> <li>Lower rated motor power than IE1 for dynamic load applications</li> <li>Short amortisation period</li> </ul>
IE3	<ul style="list-style-type: none"> <li>Premium efficiency in continuous operation</li> <li>Higher start-up torque</li> </ul>	<ul style="list-style-type: none"> <li>Up to 18 % more energy savings compared to IE2</li> <li>Already meets minimum efficiency requirements for 2015/2017</li> </ul>
IE4	<ul style="list-style-type: none"> <li>Super Premium efficiency</li> <li>Speed control with highest possible efficiency</li> <li>Small installation volume and minimum weight</li> <li>Considerably better efficiency than IE2 motors, even under partial load conditions</li> <li>High torque and power density</li> <li>High overload capacity</li> </ul>	<ul style="list-style-type: none"> <li>Up to 39 % more energy savings compared to IE2</li> <li>Short amortisation period</li> <li>Small installation space</li> <li>Compact drive unit</li> <li>More torque with same size motor frame</li> <li>Requires smaller installation space with same power</li> <li>Reduced number of variants thanks to higher efficiency over the entire torque range</li> <li>Design security thanks to spare drive unit capacity</li> <li>Technology leader</li> <li>Already meets the efficiency requirements of future standards</li> </ul>

### Series S in IE4 for explosion hazardous areas



Permanent magnet synchronous motors (PMSM) Series S as variable-speed motors in efficiency class IE4 for use in explosion hazardous areas.

- Design torque  $M_N$ : 5 Nm – 48 Nm
- Rated power  $P_N$ : 0.75 kW – 15 kW

- Protection type: Increased Safety Zone 1

⊕ II 2 G Ex e IIC T1 - T3 Gb

- S.XE.08MA4
- S.XE.08LA4
- S.XE.09SA4
- S.XE.09XA4
- S.XE.11SA6
- S.XE.11MA6
- S.XE.11LA6

- Dust explosion protection Zone 21

⊕ II 2 D Extb IIIC T 160° C ... 120° Db

- S.XC.08MA4
- S.XC.08LA4
- S.XC.09SA4
- S.XC.09XA4
- S.XC.11SA6
- S.XC.11MA6
- S.XC.11LA6

## HiflexDrive



Die HiflexDrive consists of two gear sizes BK17 and BK08.

### Gearbox BK17

- Torque 330 Nm
- Ratios 4.54 - 108.6
- Motor sizes
 

Standard:	D08, S08, D09, S09
Aseptic:	DA08, SA08, DA09, SA09
Stainless Steel:	DA09, SA09

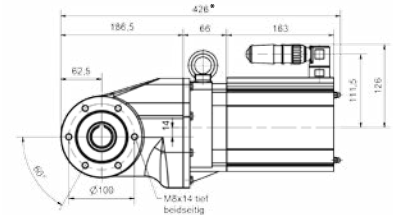
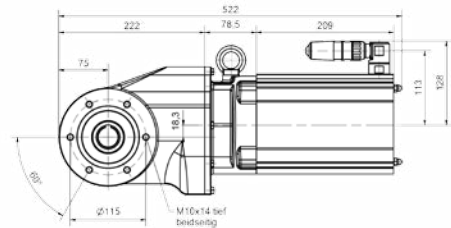
### Gearbox BK08

- Torque 200 Nm
- Ratios 4.44 - 102.5
- Motor sizes
 

Standard:	D08, S08
Aseptic:	DA08, SA08
Stainless Steel:	DA08, SA08, DA09, SA09

### Motors

- Power ration 0.18 kW ... 3.0 kW
- Efficiency Classes w/o, IE1 through IE4
- Mains supply 110V ... 690V, 50/60 Hz
- Enclosure IP65 (Standard)  
IP67 / IP 69K (optional)



\* Total length in Stainless Steel Design + 20 mm

## Gear Solutions

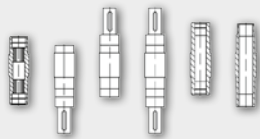
### Our Performance

#### Variance in Materials

- Housing  
Aluminium and Stainless Steel
- Shafts  
Steel and Stainless Steel

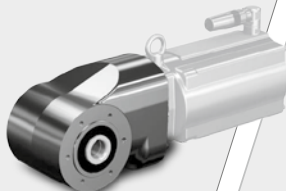
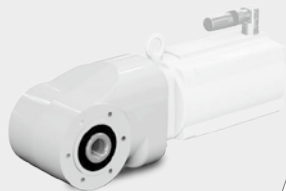
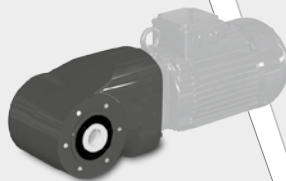
#### Diversity in Mounting

- Standard design with C-Face
- Optional A-Flange available
- Flexible shaft diameters
- All prevalent shaft types



#### Well thought-through gear design

- No interference contour
- Form and radius adapted to the logistic industry
- Easy to clean
- Special aseptic coating
- Modular set-up



## Flexibility

## Adaptability

## Motor Solutions

### Our Performance

#### Motor technologies

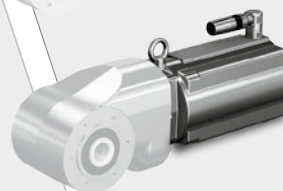
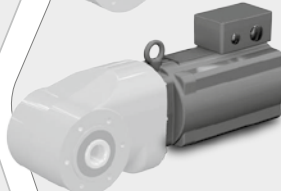
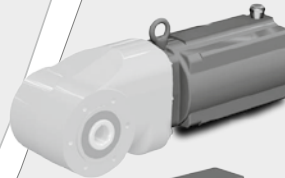
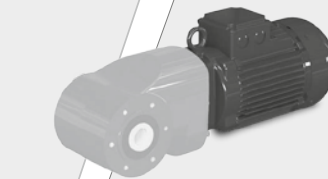
- Asynchronous technology  
- Efficiency Class IE1 to IE3
- Permanentmagnettechnology (PSM)  
- Efficiency class IE4  
- Optimised for partial load acc. to EN 50598

#### Diversity in dimensioning

- Finely graded brake sizes
- Speed feedback
- Duty cycles S1 to S9
- Optimised for inverter duty
- Connection technology  
- Cage Clamp  
- Terminal Board  
- Stainless Steel Connector

#### Well thought-through motor design

- Variance in housing design
- Easy to clean
- Special aseptic coating
- Modular set-up
- Flexible connection technology
- All enclosures incl. IP 69K





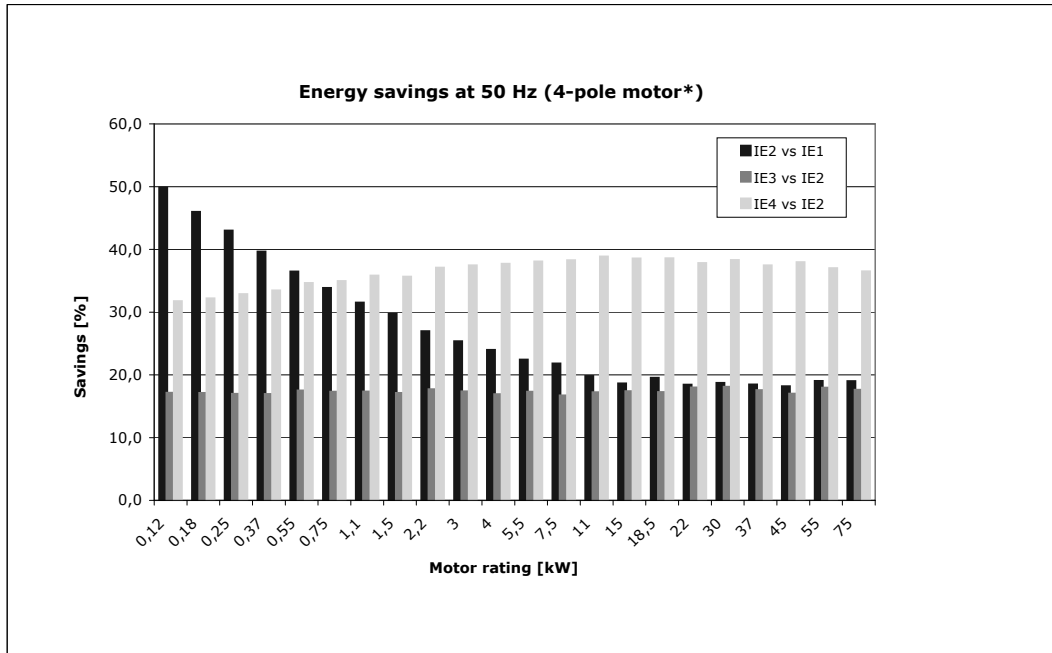
# Catalogue Geared Motors

## General Product Overview

### Investment security for the future

Electrically driven machinery accounts for around 70 % of overall energy demand for industrial consumption. If existing drives which have already been in service for decades were to be replaced by modern drive systems, energy savings of 135 billion kilowatt-hours per year would be possible within Europe. The Bauer Gear Motor range of motors offers trend-setting technologies for energy-efficient drives and for motor designs tailored to specific applications. The latter option enables highly efficient drive solutions without requiring additional space.

### Potential for energy savings in drive technology



PN [kW]	ASM			PMSM			
	IE1*	IE2*	IE3*	IE3	IE4	IE3	IE4
				1500 rpm		3000 rpm	
0,12	DSE04LA4	DHE05LA4	DPE06LA4				
0,18	DSE05LA4	DHE06LA4	DPE07LA4				
0,25	DSE06LA4	DHE07LA4	DPE08MA4				
0,37	DSE07LA4	DHE08MA4	DPE08LA4				
0,55	DSE08MA4	DHE08LA4	DPE08XA4		SU08MA4		
0,75	DSE08LA4	DHE08XA4	DPE08XB4		S08MA4		
1,1	DSE09SA4	DHE09LA4	DPE09XA4		S08LA4		SU08MA4
1,5	DSE09LA4	DHE09XA4	DPE09XB4	S08LA4	S09SA4		S08MA4
2,2	DSE09XA4	DHE09XB4	DPE09XB4C	S09SA4	S09XA4	S08MA4	S08LA4
3	DSE11SA4	DHE11MA4	DPE11LA4	S09XA4	S11SA6		S08LA4
4	DSE11MA4	DHE11LA4	DPE11LB4	S11SA6	S11MA6		S09SA4
5,5	DSE11LA4	DHE11LA4C	DPE11LB4C	S11MA6	S11LA6		S09XA4
7,5	DSE13MA4	DHE13LA4	DPE13XA4	S11LA6		S11SA6	S11MA6
9,5	DSE13LA4	DHE16MA4	DPE16LB4			S11MA6	S11LA6
11	DSE16MB4	DHE16LA4	DPE16LB4			S11MA6	S11LA6
15	DSE16LB4	DHE16XA4	DPE16XB4			S11LA6	
18,5	DSE16XB4	DHE18LA4	DPE18LB4				
22	DSE18LB4	DHE18XA4	DPE18XB4				
30	DSE18XB4	DHE20LA4	DPE20LA4				
37	DSE22SA4	DHE22SA4	DPE22SA4				
45	DSE22MA4	DHE22MA4	DPE22MA4				

\*at 1.500 rpm