



# Monorail Geared Motor Series BM

A complete range of geared motors for light and heavy load monorail applications.

## For heavy and light loads!

Drive solutions from 0.06 kW to 15 kW



### Gearbox

- Torque: up to 680 Nm
- Radial force: up to 25,000 N
- Versatile installation possibilities
- Completely enclosed and dust-tight
- Protection against water jets
- Lubrication change first after 25,000 hrs
- Low noise gearing

### Motors

- Motor efficiency: IE1 up to IE4
- Power: ASM 0.06 kW ... 5.5 kW  
PMSM 0.55 kW ... 15 kW
- ASM: Mains supply: 110 V ... 690 V, 50/60 Hz
- PMSM: Inverter supply voltage: 380 V ... 500 V
- Enclosure: IP 54 (standard only for D05)  
IP 65 (standard)  
IP 66 (optional)
- Connection: Standard with CAGE CLAMP®

### Options

- Connection via plug connectors

### Brakes

- Enclosure IP 65 (Standard)
- Performance and application optimised brake range
- Finely graded brake torques for each motor size
- Brake control via function or wearing monitoring
- Maintenance friendly design

### Standards

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

### General

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



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

### Reduction of operating costs by

– use of energy efficient motors

$P_N$ [kW]	IE1*	IE2*	IE3*	IE3*	IE4*
0.55	DSE08MA4	DHE08LA4			SU08MA4
0.75	DSE08LA4	DHE08XA4	DPE09LA4		S08MA4
1.1	DSE09SA4	DHE09LA4	DPE09XA4		S08LA4
1.5	DSE09LA4	DHE09XA4	DPE09XB4	S08LA4	S09SA4
2.2	DSE09XA4	DHE09XB4	DPE11MA4	S09SA4	S09XA4
3	DSE11SA4	DHE11MA4	DPE11LA4	S09XA4	S11SA6
4	DSE11MA4	DHE11LA4	DPE11LB4	S11SA6	S11MA6
5.5	DSE11LA4	DHE11LB4	DPE13LA4	S11MA6	S11LA6

\*at 1.500 1/min

### – efficiency optimized gear unit design

Type	Allowable torque [NM]	Allowable wheel load at force application *ML [N]	Gear ratios [:1]	Speed (based on wheel see right) [m/min]	Wheel diameter [mm]	Output shaft [mm]
BM09	30 - 108	4400	11.34 - 53.85	10 - 100	125	20 x 35
BM09X		6500		12.8 - 128	160	25 x 35
BM10	140 - 160	8000	11.68 - 58.15	12 - 128	160	25 x 35
BM10X		10000		16 - 160	200	25 x 35
BM20	182 - 220	10000	7.66 - 74.76	9 - 69	160	30 x 35
BM20X		12000		12 - 87	200	30 x 35
BM30	260 - 350	12000	7.91 - 71.09	13 - 186	200	35 x 49
BM30X		15000		16 - 233	250	35 x 49
BM40	600 - 680	20000	11.17 - 104	11 - 162	250	55 x 110
BM40X		25000		13 - 194	300	55 x 110

\*ML: The position of the power application point „centre of wheel“ can be seen on the applicable dimensional drawings. Significantly higher gear ratios are optional.