



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



Monorail Geared Motor Series BM

For heavy and light loads

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.