



Monorail Gear Motor Drives



The Bauer 2000 gear motor range that was launched in 1997 has now been extended by a complete range of monorail drives.

Types BM09 and BM10 for low load applications fulfil the requirements of directive C1 of VDE 3643.

BM09 has exactly the same connecting dimensions and reduction gear as the SZ2-V3209 gear types that have been sold in large numbers the last 20 years.

The powerful BM 30 and BM 40 have already stood the test of many different heavy load applications.

Flexible connection

The BM10, BM30 and BM40 gearboxes are also available with strong threaded holes on the top and bottom of the gearbox housing which enables much more flexible mounting of the gearbox on the running gear. The drive wheel can be mounted onto the gearbox shaft before the gearbox is assembled in the running gear, a disassembly of the drive is therefore also possible without removing the drive wheel. The threaded holes on the top of the gearbox also make these units highly suitable for use in floor and rotary conveyors.

Fast and easy servicing

The monorail drive is positioned by means of braking. Gear motors as from size 90 (1.1 kW) are available with built on brake. As from size 80 (0.37 kW) built on brake is available as option. Brake mounted on the outside of the fan cowl makes the maintenance/servicing fast and easy.

Enclosure IP65 as standard

The standard enclosure IP65 makes the drives suited for use in dusty environments.

Ideal for floor conveyors

Generally the clutch lever is placed on the gear side „L“, this means on the opposite side to the motor. This makes it possible for BM10, BM30 and BM40 to have a working shaft on both sides, which makes the drive ideal for floor conveyors.

The advantages of Danfoss Bauer EHB drives

- Improved efficiency – lower energy consumption – ideal as travelling gear
- In BM09 and BM10 worm wheels are used in the first step for loads up to about 2000 kg. After that spur wheels take over. The reduction gear of the worm wheels is very much similar to the bevel gears both as regards size and efficiency.
- For heavy load the bevel gear is the right solution. The price that is just a little higher than the price of other gears is compensated for by the technical benefits it provides.
- Reverse motion of gear is possible.
The smooth running of the BM gear makes it possible with deactivated brake to turn the output shaft, even without disengaging the gear box. The Danfoss-Bauer principle also makes any mechanical indexing possible.

Typ	Max. torque [Nm]	Max wheel load Force applied ML* [N]	Gear reduction	Speed [m/min] Related to running wheel, see to the right	Running wheel Diameter. [mm]	Working shaft [mm]
BM09 BM09X	30-108	4400 6500	11.34-53.85	10-100 12.8-128	125 160	20 x 35 25 x 35
BM10 BM10X	140-160	8000 10000	11.68-58.15	12-128 116-160	160 200	25 x 35 30 x 50
BM30 BM30X	260-350	12000 15000	10.06-71.09	13-186 16-233	200 250	35 x 49 35 x 49
BM40 BM40X	600-680	20000 25000	14.5-104	11-162 13-194	250 300	55 x 110 55 x 110

*ML: The position of the force application point „middle running wheel“ is indicated in the dimensioned sketch. Much higher gear reduction is available as option.

Various mounting possibilities for new trolley constructions.



Danfoss offer a multitude of innovative drives solutions and global service.

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Danfoss Drives A/S

DK-6300 Graasten
Denmark
Telephone: +45 74 88 22 22
Telefax: +45 74 65 25 80
www.danfossdrives.com