

Press Release

Reliable gear units for electrified monorail systems

A drive to suit every load

Electra Mining 2012: SEW-EURODRIVE will showcase their new electrified monorail system for the first time in South Africa during the upcoming Electra Mining trade show in Nasrec, Johannesburg.

Although the technology has been available internationally and is currently working in some of the local automotive plants, these installations has been via European OEM's. For SEW Eurodrive South Africa this is a first in terms of exhibiting this model locally.

The MOVITRANS® contactless energy transfer system offers the operator has an efficient, flexible complete package at his or her disposal. Drive solutions for electrified monorail systems can be combined with many options from the SEW-EURODRIVE modular concept. The system is often used for AGV's (Automatic Guided Vehicles) in various industries.

The company has expanded its gear unit series for electrified monorail systems. Different gear units are available for both the light load and heavy load ranges and have been designed to suit different applications, conveying speeds, and transport material working loads. There are a total of six drive sizes now available within this powerful drive product range.

SEW-EURODRIVE has introduced two new gear unit sizes for electrified monorail systems (EMS): the particularly compact HW 10 angular gear unit for the light load range and the bevel gear unit in size HK 37 for the heavy load range. The Bruchsal-based drive automation specialist has therefore significantly expanded its product range for efficient electrified monorail system drives, aligning it even more closely to specific application requirements. A total of six drive sizes are now available, making a comprehensive, powerful range.

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The operation of electrified monorail systems requires special gearmotors with integrated coupling, which SEW-EURODRIVE offers in two series. The HW series of electrified monorail system drives was developed specifically for the light load range and has a compact design for space-saving installation. These drives are maintenance-free and low noise, have reproducible stopping accuracy, and are suitable for vibration-free operation thanks to their running smoothness.

For heavy load applications (more than one metric ton per vehicle), SEW-EURODRIVE offers bevel gear units with optimized efficiency. Reliable switching is achieved by a coupling in the gear unit output stage. A high permitted overhung load permits maximum working loads. Both series are optimally adapted for conveying capacity, conveying speed, and working load.

The gearmotors are suitable for operation on an inverter. The two new sizes, HW 10 and HK 37, are available immediately.

Technical data

Type	Maximum torque [Nm]	Permitted wheel load [N]	Gear ratio	Shaft d x l [mm]
HW 10 (new)	20	2.500	6,75... 16,5	14 x 28
HW 30	70	5.600	8,20... 75	20 x 35 25 x 35

HWxx series for the light load range

Type	Maximum torque [Nm]	Permitted wheel load [N]	Gear ratio	Shaft d x l [mm]
HK 37 (new)	220	14.500	13,08... 106,38	25 x 35
HK 40	400	18.500	12,20... 131,87	30 x 60 35 x 70
HK 50	600	25.000	13,25... 145,14	45 x 90
HK 60	820	40.000	13,22... 144,79	55 x 110

HKxx series for the heavy load range

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