**New frequency inverters ensure that ‘less is more’**

*09 September, 2014: An easy-to-operate and environmentally-friendly range of MOVI4R-U frequency inverters, introduced to the local industrial sector by specialist drive engineering company SEW-EURODRIVE at Electra Mining 2014, have been specifically designed to support the essential functions of an electrical inverter – which is simple speed control for asynchronous motors.*

Users of the innovative MOVI4R-U inverters are provided with the peace-of-mind that installations will be simplified and that components can be replaced with minimal effort, as only one single screw on the unit needs to be loosened for it to be stripped down to its major components.

The new MOVIR4-U series of products covers a power range from 0.25 kW to 1.1 kW (3 x AC 400 V) or 0.25 kW to 0.55 kW (1/3 x AC 230 V).

MOVI4R-U is the first frequency inverter on the market to be made up of four completely separable parts. In just a few simple steps, the control plate, fan module or power section cassette can be separated from the aluminium housing, sorted according to type and replaced if need be.

SEW-EURODRIVE is also the first company in the world to offer an innovative take-back scheme, which ensures a closed material and raw material cycle. Thanks to their simple disassembly, all MOVI4R-Ucomponents can be easily fed back into the material and raw materials cycle, thereby ensuring the continued recycling of component parts.

SEW-EURODRIVE customers will therefore be able to return theinverter at the end of the life cycle in future, says **Norman Maleka,**Electronics Manager at SEW-EURODRIVE. “Nowadays, environmental awareness is no longer limited to the energy efficiency of individual machines or components in the utilisation stage. The focus is on the whole lifecycle of product, from manufacture and operation, to the re-use and recycling of the materials.”

**Rethinking the frequency inverter’s operability and sustainability**

Simplicity is the driving force behind MOVI4R-U frequency inverters. As a result, no external computer software is required for operation, thereby ensuring efficiency and added user convenience. **Maleka** notes that the MOVIR4-U frequency inverters are supported by a straightforward and intuitive operating concept.

“A user-friendly control knob – which is a combination of a rotary switch and pushbutton – allows for full control of the start-up, set point selection and the operating status,” he explains. “The control knob is used to set all equipment parameters via just two menu levels. The coloured status LED indicates the status of the device and provides prompt information about the cause of any occurring fault.”

What’s more, MOVIR4-U frequency inverters are housed inside an IP54-certified aluminium housing case to ensure that they are able to withstand the harsh African operating environment. “IP54 certification ensures that the unit is dust and water tight, which enables the user to wall-mount it on the outside of a switch cabinet. Thanks to its user-friendly design, the unit can also be installed inside the switch cabinet too, if the application requires so,” Maleka continues.

**MOVI4R-U – the most innovative inverter design to date**

The aluminium housing, control plate, fan module and power section cassette can be separated completely from, and independently of, each other. As a result, the whole inverter no longer needs to be changed if the power section cassette needs replacing or if an upgrade is required.

“The unit can be disassembled by unscrewing a single internal screw. Even the control plate can be removed in a matter of seconds as it is only plugged-in,” Maleka concludes.

***Ends***

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**Media Contact**
Bridgette Macheke
NGAGE Public Relations
Phone: (011) 867-7763
Fax: 086 512 3352
Cell: 073 400 1549
Email: bridgette@ngage.co.za
Web: [www.ngage.co.za](http://www.ngage.co.za/contact-us)

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