



Motor Technology News - Machine Tool Edition

Miniature, contactless encoder kits for high speed cutting (HSS), milling and grinding applications



In this issue of Motor Technology News we're taking a look at Lenord + Bauer's range of miniature, contactless kit encoders for machine tool applications.

These MiniCODERs are the perfect solution for high speed cutting (HSS), milling and grinding applications, and, as the UK agents for Lenord + Bauer, we are able to assist repairers, spindle refurbishment engineers, machine tool operators and manufacturers alike.

We'd also like to introduce you to a new wireless testing and programming unit, the GEL 211, that enables the easy set-up and testing of the full range of MiniCODERs remotely. This is particularly useful on machine tool applications as it can be used without needing to open the spindle.

MiniCODERs are the most frequently used speed sensors in high-speed spindles

Have a look at some of the latest MiniCODER products in this newsletter, visit our web site, or **contact us** for more information. We can help you with the selection of products and spares as well as being able to offer technical support

and system design if required. We hope that you will find this machine tool edition of Motor Technology News useful and interesting.

MiniCODERs are the high precision, reliable and robust solution

Lenord + Bauer's MiniCODERs are miniature, precision speed and position sensors that can be incorporated into the smallest of spaces within a machine such as on a rotating shaft, machine tool spindle, cam, or inside a motor or gearbox. They are compact, robust and do not require their own bearings so are completely wear and maintenance free.



Illustration showing the MiniCODER's toothed wheel attached to the shaft of a high-speed spindle

Thanks to the contact-free, magnetic sensing principle, they are suitable for use in the harshest environments. Even oil and dirt have no detrimental effects on the MiniCODERs and they are suitable for use in environments with large fluctuations in temperature.

They are in no way inferior to sensor systems with bearings. Very high rotational speeds and and tooth frequencies up to 200KHz can be achieved.

[Click here to go to the MiniCODER section of our web site for more information](#)

Wireless testing and programming unit for the complete range of MiniCODERs

A new mobile testing and programming unit for the full range of Lenord + Bauer's MiniCODERs can be used remotely using devices such as laptops and tablets on machine tool applications, such as high speed cutting (HSS) without the need to open the spindle. It can be used during installation, commissioning and servicing, as well as for routine maintenance and fault finding. The data derived from the SIN/COS signals, as well as reference signals, can indicate issues such as damage to the tooth-wheel, or run-out potentially caused by bearing wear.



The new GEL 211 mobile testing and programming tool

In conjunction with the Plus series of MiniCODERs the testing unit is also able to provide access to the internal memory of the sensor that can store information such as the operating temperatures and can be configured to monitor the operating time and shaft speed of the equipment.

Typical applications include the commissioning, service and repair of high-speed spindles on machine tools such as high-speed cutting (HSC). For high value machinery the GEL211 can also be integrated into the control system to provide a permanent means of monitoring the sensor performance and conditions, ultimately providing early indication of any potential problems.

[Click here for more information on the new GEL 211](#)



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20 Page brochure details full range of MiniCODER products

An excellent 20 page brochure from Lenord + Bauer details the company's entire range of MiniCODER products, their innovative technical features and the applications to which they are best suited.

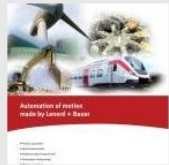
[Click here to learn more...](#)



New MiniCODER is programmable

Lenord + Bauer's new compact, contact-free kit-encoder, GEL 2444-P, is the next generation of MiniCODER, providing significant benefits, including an integrated programmable chip.

[Click here to learn more...](#)



Lenord + Bauer Product Overview Brochure

This 40-page brochure from Lenord + Bauer provides detailed technical information on the company's entire range of products for position acquisition, speed acquisition, speed measurement, rotational speed measurement, adjustment positioning and many others.

[Click here to learn more...](#)