

MID DIRECTIVE





Your contact

The author of this article, Stefan Simon, was born in 1977, trained to become a metalworker/design engineer after completing technical college, and later went on to qualify as a business administrator. He worked in various companies in the metalworking and mechanical engineering sector as project manager for customer-specific installations which involved the consideration of a wide range of different international standards. Since 2013, he has been a management assistant at Vetter and is also responsible for standardisation in this

position. As head of the "MID Project", he dealt intensively with the new EU regulations and their future-orientated implementation in cable winding systems. Nowadays, he is one of the most sought-after specialists in this area for legally compliant application in cable rewinding operations.

He is also happy to answer any questions you may have about the introduction of MID in your company:

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MID - Unity, safety and accuracy in Europe

It has always been in the interest of all market participants to establish a uniform, safe, transparent and reproducible system for determining weights and dimensions.

The history of length measurement is a long one and shows that the correct determination of lengths has been an important factor for the successful collaboration of all industry stakeholders from time immemorial. It also illustrates the importance that has always been associated with the correct measurement of lengths and the difficulties that arose when different dimensions and prerequisites for determining them existed in a common economic area. Consequently, dimensions and their measurement have increasingly been harmonised and made more transparent over time.

The creation of the European Directive 2014/32/EU on the provision of measuring instruments on the market is to be understood from this development and knowing about the core of the European idea. It develops the old directive of 2004 further and consistently calls for the implementation of new technical possibilities for the benefit of all.

Application of the new directive has

become compulsory on 1st November 2016 and it has been implemented in German law in the Verification Act (MessEG) as well as the Verification Ordinance (MessEV).

The correct measurement of lengths is still at the core of the demands. Additionally, however, the requirements for the recording, transparency and traceability of the measurements have been tightened considerably. The main change is the demand for permanent and non-corruptible storage of all measurements.

For manufacturers of cable length measuring machines, this means that only machines may be brought onto

the market that meet this requirement, that have been accepted in the course of a conformity assessment and thus obtained European approval.

The successful assessment of the measuring instruments is confirmed by the declaration of conformity issued by the manufacturer and is valid throughout Europe.

In future, companies that sell cable to third parties may only procure length measuring instruments that meet these requirements.

The purchaser of a measuring machine with declaration of conformity



Counter according to MID Directive mounted on measuring instrument M 20

is obliged to register the measuring machine with the competent verification office (in Germany www.ei-chamt.de) immediately following the acquisition.

Machines with a declaration of conformity are deemed verified until expiry of the nationally regulated verification period. In Germany, the verification period for machines used in the course of trade is two years. There are, however, no restrictions on the validity of the verification if the machines are used in retail. Irrespective of this, the verification period will end prematurely if, among others, the maximum number of errors permitted in service is exceeded or the seal is damaged.

Specifically, the legislator demands that information on each measurement be stored securely, permanently and unchangeably. Apart from the actual length, the date and time of the measurement as well as information about the measuring instrument used are of relevance. All of these data are to be identified by means of an unambiguous and unique identifier, the objective being to ensure continuous traceability of each measurement.

In order to ensure this for buyers of cables, this unique identifier of the measurement process must be applied to the measuring material by the seller. The seller must additionally ensure that the corresponding identifier is provided on all relevant documents in order to be able to react quickly and with certainty in the event of a complaint.

Vetter took this transitional period to the new EU directive 2014/32/EU as an opportunity to adapt the machines of the LM series, which have been tried and tested for decades, and in doing so to break new ground. Through the use of state-of-the-art electronics and compliance with the software guide WELMEC 7.2 for implementing the requirements of Directive 2014/32/EU, a new electronic

measuring module was developed. Vetter and its technology therefore exceeds the standard required by the MID and offers its customers a complete solution with an eye to the future.

Safe, simple and intuitive operation was developed for users through the provision of a large touchscreen. This simultaneously fulfils the Directive's requirements for the permanent storage of measurements and the details of the instrument used for the purpose.

The EU type examination test was accepted in Switzerland by METAS, the Federal Institute of Metrology. Following the successful completion of all required tests and inspections, the EU type examination certificate was granted.

The machines of the new M series therefore meet all requirements for use throughout Europe, irrespective of whether they are used as measuring instruments on winding machines or as a standalone solution for individual use. They offer the demanded uniformity, security, transparency and confirmability for buyers and sellers of cables within the European Economic Area.

Use of a mechanical counter also allows purely internal use, while a calibrated version enables use in direct sales. These applications are not subject to any specifications regarding the storage of measurement data. The modular concept of the new series therefore permits its use for all cable length measurements.



Universal cable winding machine DE 30 with MID length measuring instrument

Cable length measuring machines with electronic counter



Cable length measuring machines with electronic counter and storage of measurement data. For use on cable winding machines with power supply or with power pack for use as a standalone solution. Very robust design. The large measuring wheel diameter of 1 m delivers high measuring accuracy of $\pm 0.5\%$, accuracy class III, at temperatures of 5-40 °C.

With conformity assessment according to EU Directive 2014/32/EU, Appendix MI-009, valid throughout Europe. Conformity assessment method with type examination according to Module B and product testing according to Module F. Comes as standard with 3.5 inch colour touchscreen incl. electrical preset counter. Request a detailed offer from us.

- Types M ... are for insulated cables only; types M ... S are also suitable for bare conductors.
- The measuring accuracy refers to a cable length of at least 5 m.
- Measuring machines for large cable diameters are available on request.

Type	M 20 / M 20S	M 40 / M 40S	M 60 / M 60 S
Code	323.720 / 323.725	323.740 / 323.745	323.760 / 323.765
Cable dia.	1-20 mm	3-40 mm	10-60 mm
Wire dia.	--- / 1-8 mm	--- / 3-22 mm	--- / 6-32 mm
L/W/H	360/280/400 mm	550/300/420 mm	700/630/600 mm
Weight	17.00 kg	28.00 kg	54.00 kg

Cable length measuring machines with mechanical counter



Cable length measuring machines with mechanical counter and no storage of the measurement data, for use as a standalone solution. Very robust design. Maximum measuring accuracy through large measuring wheel diameter of 1 m, digit height 7 mm. High measuring accuracy of $\pm 0.5\%$. Request a detailed offer from us.

Without conformity assessment. For internal use only. Not for sale. A Module F1 conformity assessment is possible, which permits use for the direct sale of cables.

- Types MZ ... are for insulated cables only; types MZ ... S are also suitable for bare conductors.
- The measuring accuracy refers to a cable length of at least 10 m.
- Measuring machines for large cable diameters are available on request.

Type	MZ 20 / MZ 20S	MZ 40 / MZ 40S	MZ 60 / MZ 60 S
Code	323.730 / 323.735	323.750 / 323.755	323.770 / 323.775
Cable dia.	1-20 mm	3-40 mm	10-60 mm
Wire dia.	--- / 1-8 mm	--- / 3-22 mm	--- / 6-32 mm
L/W/H	360/280/400 mm	550/300/420 mm	700/630/600 mm
Weight	16.00 kg	28.00 kg	54.00 kg

You can find our full range of cable winding technology products on our website at: www.vetter-kabel.de/produkte/kabelspultechnik