

3R SLM

In-line measurement of the belt length



In order to be able to correctly assign the measurement data in-line to the belt length and to the individual blanks, a reliable belt length measurement before and after the compensation loop is very important. And a suitable data backup as well.



ACCURACY



FULLY AUTOMATIC MEASUREMENT



RELIABILITY



AUTOMATIC AND UNAMBIGUOUS ASSIGNMENT

All systems <-> one interface

Together with the 3R TQC system for non-destructive determination of material properties, with the 3R LLT for measuring of lubricant layer thickness and with the 3R STM for measuring sheet thickness, you have everything under one roof.



CONNECTIVITY

MS SQL, MS Access, HTTP, TCP/IP,
DI/DO, OPC UA, PLC communication

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3R SLM

The 3R SLM is a belt length measuring system. It ensures a clear allocation of the measurement data recorded in the line.

The 3R SLM was specially developed for the blanking line. The smallest blanks can be correctly allocated over the entire belt length. The typical minimum blank length is 200mm. Depending on the belt speed, it is also possible to work with smaller blank lengths and sampling rates.

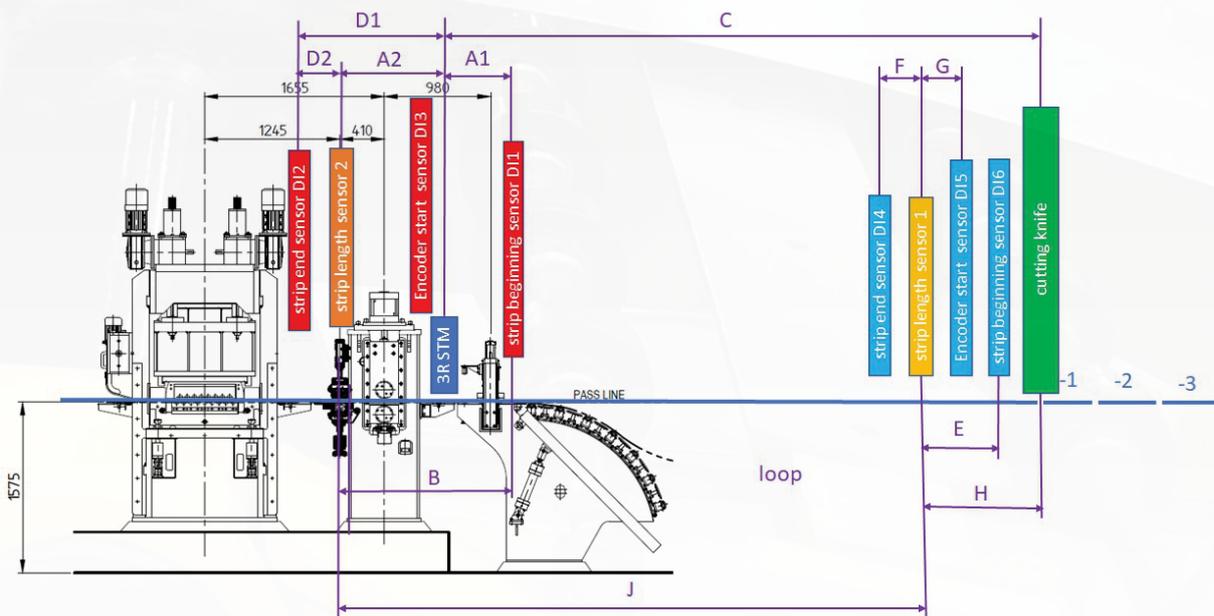
The measured values are reliably assigned to the belt length and to the individual blanks, even though these measured data are recorded at different points along the line.

The recording of the belt length runs fully automatically including the observation of the beginning and the end of the belt. The correct cut-off length is verified and the cut-offs with an incorrect length are identified and sorted out from the correct data. Even cuttings at any point that do not have the specified length are sorted out from the data.

An automatic adjustment of the sensors for the length measurement before and after the compensation loop corrects the measurement differences and ensures the unambiguity of the belt length over the entire length independently of the measuring position in the line.

The 3R SLM system can be coupled with other measuring systems, such as the 3R TQC system for the non-destructive determination of material properties or with the 3R LLT system for the determination of the amount of lubricant on the material surface or with the 3R STM system for sheet thickness measurement, or with all systems simultaneously -> all measuring systems from one source.

The 3R SLM system, like all 3R systems, has many options for saving the captured data and forwarding it for further processing and use.



Contacts:



3R Technics Slovakia s.r.o.
Mečíková 54
841 07 Bratislava
Slovak Republic
mobile phone: +421-908-60 77 96
phone: + 421-2-64 76 16 48
e-mail: mar@3R-Technics.com
www.3R-Technics.com

3R Technics GmbH
Technoparkstrasse 1
8005 Zurich
Switzerland
phone: +41-76-443 13 03
e-mail: info@3R-Technics.com
www.3R-Technics.com

