

## – the new revolutionary non-contact thickness gauge for non-ferrous applications

successfully installed at Outokumpu Poricopper Oy,  
Finland

Outokumpu Copper Products Group is the world's second largest fabricator of copper products with production facilities in Finland, Sweden, Spain, the Netherlands, Great Britain, Austria, the USA, China, Malaysia and Thailand. Significant users of their copper products are industries such as electrical, electronics, and communication industries, along them also the building and construction, automotive, and heat transfer industries.

They have a particularly strong competitive position in their principal markets of the United States and Europe. In recent years, their services have been extended on the Asian markets as well.

Outokumpu Poricopper Oy, located in Pori, Finland, has a great expertise achieved through decades of hard work and constant questioning about how to make new and better products as well as a constant striving in improving the production facilities. This passion has made Outokumpu a leading supplier of many types of copper products.

### Mill data

|                    |                                    |
|--------------------|------------------------------------|
| Work roll diameter | 215 mm                             |
| Max. strip width   | 750 mm                             |
| Max. rolling speed | 400 m/min                          |
| Max. entry gauge   | 5 mm                               |
| Min. exit gauge    | 0.15 mm                            |
| Thickness gauges   | Vollmer/ABB MTG<br>AGC             |
|                    | FF, FB, Massflow<br>Outokumpu Aut. |
| Flatness system    | ABB Stressometer                   |



*The robust MTG measures very accurately in harsh environments.*



### MTG study and test

One of the most important factors in improving the quality of rolled material is the thickness measurement. Since two years, Outokumpu Poricopper has tested ABB's Millmate Thickness Gauge (MTG) and the company is very satisfied with the measurement results from the gauge. A careful study carried out at the Pori site explains in detail the short, intermediate and long term stability of the MTG in comparison to the contact-type of gauges. For further information on MTG study, see reprint of article in MPT magazine.

### Comments from production personnel

Outokumpu explained the following factors have made them decide to go further and buy three new Millmate Thickness Gauges:

- Very promising and accurate measurement results from test period
- Long time accuracy
- High repeatability
- Long term stability
- In comparison to the contact-type of gauges remarkably good results were achieved with the MTG when rolling the specific Euro ( ) coin material (copper/brass alloys).

### Customer value

Through the installation of the MTG, leading to considerably improved thickness tolerances, Outokumpu Poricopper will benefit from great savings. The improved thickness tolerances will secure the shortest possible payback time of the Millmate Thickness Gauge investment.