

## Millmate Thickness Gauge (MTG) successfully installed at Liaoning Copper Trade Group, China

Liaoning Copper's four rolling mills are running with four double systems with all together eight MTG thickness gauges



Liaoning Copper Trade Group was founded in 1996 and is today one of the main copper and copper alloy strip producers in China. The production capacity is about 60,000 tons per year. The products are widely used in the areas of electronics, circuit boards, telecommunication, shields for cables, transportation, metallurgy, buildings, etc; both domestic and export markets.

With strong and competent manpower and advanced production facilities, Liaoning Copper is at top position in the areas of research development, technical operation, quality inspection, technical facilities and new product development (For more information, visit [www.lyty.cn](http://www.lyty.cn))

### What has been achieved?

We ask Mr. Hefeng Fan, Vice General Manager, Senior Engineer, about the new MTG-installation:

"Generally speaking, at Liaoning Copper, we are very satisfied with ABB's MTG-systems. Due to the ABB gauging technology we do not have any scratches in the strip, thanks to the non-contact measurement with the MTG-gauges.

The MTG is very robust and a strip break will not damage the gauge. Also, the MTG is not affected by the harsh environments in rolling mills such as water, oil, steam, dirt, air temperature, etc. A great benefit with the MTG.

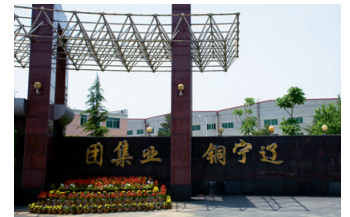
Further, we have no accuracy problems and there are no customer claims for scratches anymore due to the MTG-installations.

**"We have no customer claims due to scratches anymore"**

We see a big advantage with the non-contact MTG having very stable and reliable measurements over time.

Ms. Chunyan Gia, Electrically responsible for the ABB MTG gauges, adds her opinion about the MTG installations:

"We want to emphasize that the main reason for investing in ABB's MTG-gauges was to eliminate scratches in the strip. Also there are much better tolerances with the MTG-gauges."



### Supplied equipment

ABB Force Measurement has supplied the following equipment to Liaoning Copper's rolling mills in Liaoyang, China:

- Two MTG systems with two Standard gauges in each
- Two MTG systems with two Foil gauges in each  
All together eight (8) MTG gauges supplied
- Eight (8) standard sledges for horizontal movement of the gauges
- ABB PillowBlock strip tensiometers in the Andritz rolling mill



Operator at Liaoning Copper: "There are no problems and the MTG-gauges work very well. It is easy to operate the MTG-system and it is very smooth and convenient to do the set-ups."

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Rolling mill 1	
Mechanical supplier	KunMing Heavy Machinery
Number of gauges	2 MTG Foil 3.0
Strip width min./max.	270 – 550 mm
Exit strip thickness min./max.	0.15 – 2.0 mm
Max. rolling speed	360 mpm

Rolling mill 3	
Mechanical supplier	Fröhling
Number of gauges	2 MTG Standard 2.5
Strip width min./max.	260 – 430 mm
Exit strip thickness min./max.	0.2 – 3.0 mm
Max. rolling speed	260 mpm

Rolling mill 2	
Mechanical supplier	Andritz
Number of gauges	2 MTG Foil 3.0
Strip width min./max.	300 – 450 mm
Exit strip thickness min./max.	0.05 – 2.0 mm
Max. rolling speed	350 mpm

Rolling mill 4	
Mechanical supplier	Bliss, Salem, Ohio
Number of gauges	2 MTG Standard 2.5
Strip width min./max.	270 – 450 mm
Exit strip thickness min./max.	0.2 – 3.0 mm
Max. rolling speed	350 mpm

### Contact us

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