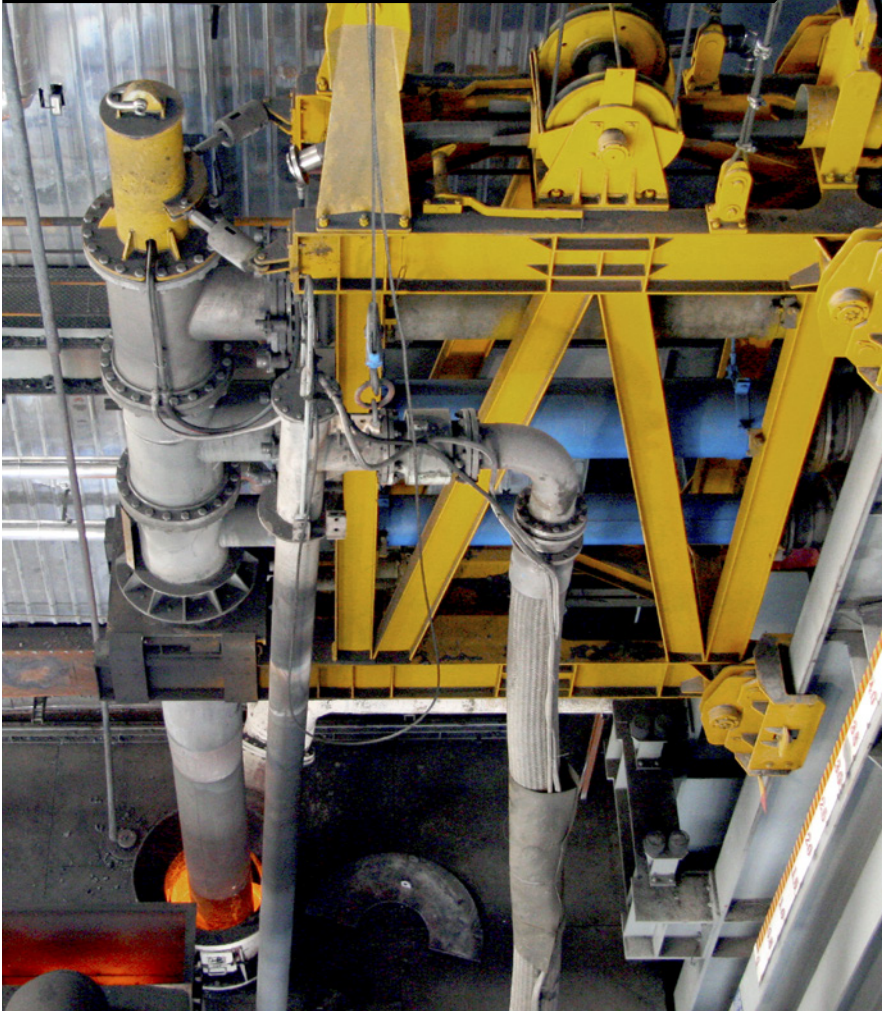


Metso

TSL LanceMotion



Metso TSL LanceMotion is a unique, highly sensitive sensor technology for the real-time monitoring of a TSL lance in service. It enables operators and managers to identify and quantify subtle movement characteristics that are not visible to the naked eye. The solution can also be customized with additional system controls to enable more advanced automation and improve Ausmelt process performance.

Operating principle

Advanced sensors mounted on the head of the lance and the lance trolley continuously monitor and report movement information in real time. Information can then be quickly and easily accessed through a simple, visual web interface built on the Metso Advanced Control Technologies (ACT) platform.

Combined with the advanced control methods available through Metso ACT, controls for lance placement, bath monitoring, or even AI/ML applications can be added to enhance process performance.

Benefits

- Enables real-time monitoring of lance movement
- Quantifies movement characteristics to enable accurate placement and control
- Can be customized with additional control options such as automatic lance positioning and bath monitoring

Key components

LanceMotion is highly versatile and can be customized to your specific requirements.

Web user interface

- Individually customizable for information display and placement
- Statistical information available
- Customized expert function access

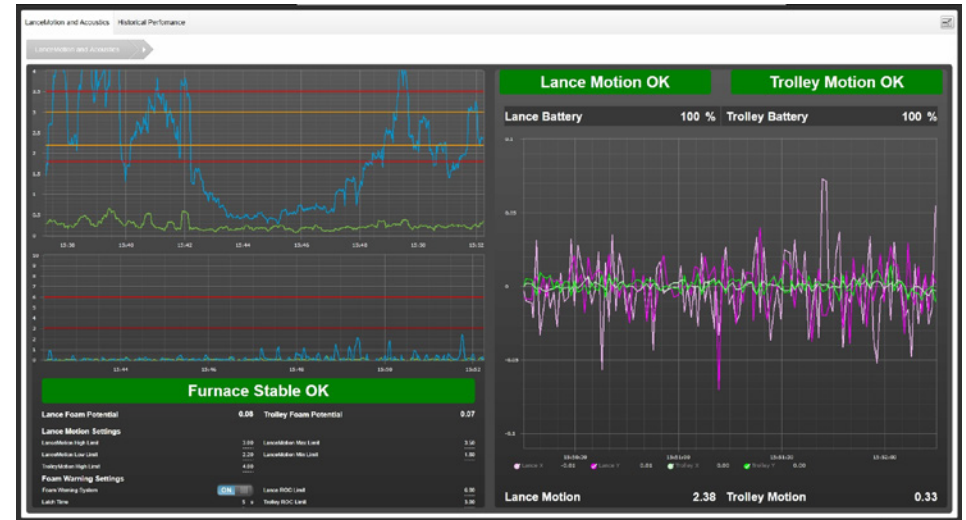
LanceMotion sensors

- Lance sensor directly mounted on the TSL lance head
- Trolley sensor mounted on the TSL lance trolley
- Optional LanceMotion sensors can be mounted on the TSL furnace body for enhanced process monitoring

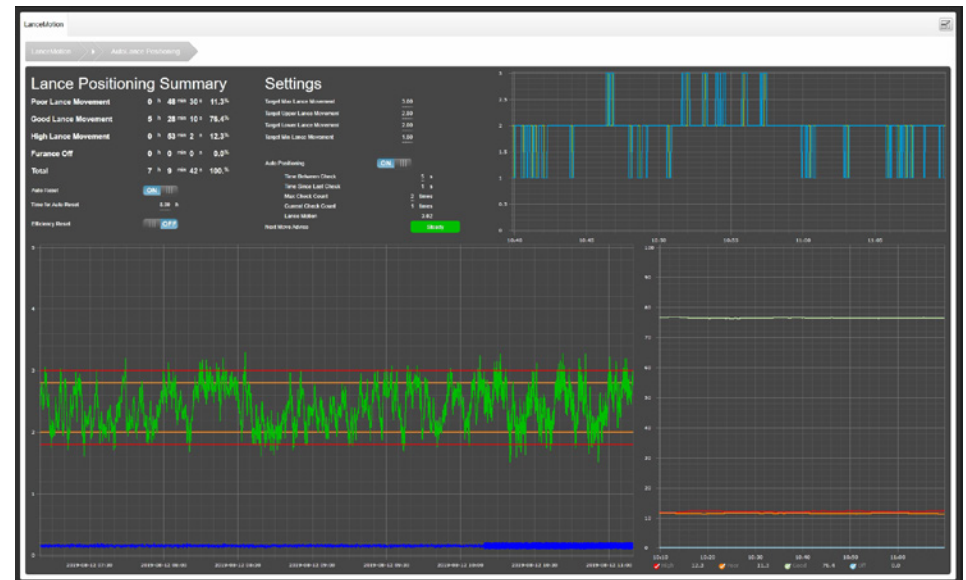
Typical delivery scope

- Scope definition meetings – to ensure your customization needs are met and understood
- LanceMotion sensors – lance sensor and trolley sensor
- LanceMotion ACT application – with customized functions according to customer needs
- Web user interface – customized according to the defined scope
- User training and operating manuals
- Support package – service level agreement package for updates and remote support, provided on an annual subscription basis

Read more at [metso.com](https://www.metso.com)



LanceMotion and bath monitoring screen.



Lance Auto Positioning expert function screen.