

# HOT ROLLING / ROLLING MILLS TEMPERATURE MEASUREMENT

## THE OPPORTUNITY

The primary function of the hot strip mill is to reheat semi-finished steel slabs of steel nearly to their melting point, then roll them thinner and longer and finally coiling up the lengthened steel sheet for transport to the next process.

Infrared sensors measure strip and sheet temperature so that rolling mill stands can be efficiently set to match the steel's temperature. Sensors can be used to detect the presence of hot metal and accurately time the roll stand operation.

Pyrometers can be used to measure the roll temperature as water cools the roll during the quenching process. Steam is an issue with this application, requiring special spectral responses to accurately measure system temperature.



## OUR SOLUTIONS

Advanced Energy's Mikron thermal imagers and Impac pyrometers are ideal solutions to ensure uniform temperature and keep the slab within its working temperature range.

They can selectively control the quench zones so that only the higher temperature part of the slab is quenched to the maximum extent allowed, resulting in greater working time.

## Recommended Pyrometers

- ISR 6 Advanced
- ISR 6-TI Advanced
- IGAR 6 Advanced
- IS 8 pro
- ISR 12-LO
- IS 140
- IS 320
- ISR 320

## Recommended Thermal Imagers

- MC320M

## YOUR BENEFITS

- Highly accurate and very fast temperature measurement
- Continuous process temperature monitoring
- Process control and management
- Documentation of process temperatures



Impac ISR 6-TI Advanced



Mikron MC320



For international contact information,  
visit [advancedenergy.com](http://advancedenergy.com).

[sales.support@aei.com](mailto:sales.support@aei.com)  
+1 970 221 0108

---

PRECISION | POWER | PERFORMANCE

Specifications are subject to change without notice. Not responsible for errors or omissions. ©2019 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy®, and AE® are U.S. trademarks of Advanced Energy Industries, Inc.