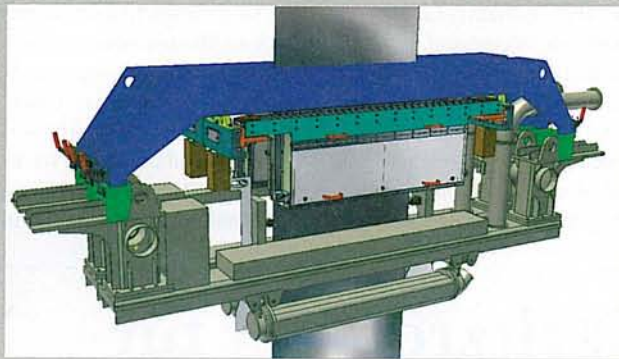


# Electromagnetic strip stabilization

EMG is a leading supplier of strip guiding systems for the metals industry. The exhibits concentrate on the quality assurance systems segment. Components and demonstration equipment of the IMPOC-technology – online measurement of mechanical properties – and the SORM 3plus system – a laser-based online roughness measurement are showcased. Both systems have already been applied in numerous steel pro-

duction lines. Special emphasis is placed on eMASS – electro-Magnetic Strip Stabilization – a recently introduced solution aiming to reduce substantially strip vibrations, especially in hot-dip galvanizing lines. This application leads to a significant reduction in zinc consumption while keeping the coating quality (homogeneity) at an optimal level.

**EMG Automation GmbH**  
**Hall 6, Stand B 03**



*Electro-magnetic strip stabilization system mounted above the air knives in a hot-dip galvanizing line*

# eMASS: Reduction in zinc consumption

EMG is the globally leading supplier of strip guiding systems for the metals industry. The exhibit concentrates on the quality assurance systems segment and shows components and functional demonstrators of the IMPOC-technology – online measurement of mechanical properties – and the SORM 3plus system – a laser based online roughness measurement. Both systems are already applied in numerous steel production lines. Emphasis is put on eMASS – electro-MAGnetic Strip Stabilization.

EMG-eMASS leads to a significant reduction in zinc consumption keeping at the same time the coating quality (homogeneity) at an optimal level. Strip oscillations caused by fans in the cooling stretch make it difficult to achieve a uniform layer of zinc. In order

to meet customers' demands on minimum zinc thickness, it is normally necessary to apply an excessively thick layer. This increases production costs. By minimizing the strip oscillations, the eMASS system ensures a homogeneous zinc layer at high production speeds, thereby maximizing the saving of zinc and the profitability of hot-dip galvanising lines. Four of the world's leading steel producers, ThyssenKrupp Steel, ArcelorMittal, Dongbu Steel and Baoshan Iron and Steel ordered EMG's eMASS System in Q1/2007. Please find more information at [www.emg-automation.com](http://www.emg-automation.com).

**EMG Automation GmbH**  
**Hall 6, Stand B 03**