



Dear Sir or Madam,

This is last 2009 issue of the *PSImetals* Newsletter. Please enjoy reading the latest news about *PSImetals* projects and orders as well as upcoming events. For the first time in this issue you can read information from our new group member AIS.

We wish you a Merry Christmas and a Happy New Year.

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Your feedback is welcome at all times. Please feel free to call me (+49 30 2801 1817) or send me an e-mail ([a.poehl@psi-bt.de](mailto:a.poehl@psi-bt.de)). Please have a look at our homepage [www.PSImetals.com](http://www.PSImetals.com) as well!

Yours sincerely

Annett Pöhl  
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### **Successful Implementation at ThyssenKrupp Electrical Steel, France**

PSI *metals* has been successfully implemented in the slitting and packaging areas in the electric strip cold rolling mill at ThyssenKrupp Electrical Steel in Isbergues, France.

The solution is based on the PSI *metals* components for Production Execution (PES) and Advanced Line Sequencing (ALS). The specific plant programs will be generated and implemented for all the system types in slitting and packaging. The cross-plant tracking of the production orders, including the production data acquisition and implementation of the quality standards, is handled at the level of the specific plant segment by means of a task-optimized menu. ThyssenKrupp Electrical Steel expects benefits especially in retroactive quality analyses. Every modification and defect, including precise information about where the position of the defect was in which stage of treatment, is managed for every piece of electrical steel. This quality information as well as their analysis using the integrated technical data warehouse forms the basis for the future improvements in the production process.

Guy Ligi, Head of Order Center & Finishing Operation at ThyssenKrupp Electrical Steel in Isbergues reports: "PSI has now shown us at Isbergues that my colleagues' long years of positive experience with PSI at the Gelsenkirchen site were justified. The old system was successfully replaced and the ramp-up occurred without incidents. The first strips were cut and packed just a few hours after the conversion of the system. The process was tracked completely by means of PSI *metals*. We are looking forward to phase 2, i.e. the introduction of the rolling mill and the tempering, with great confidence."

### **Rhizao Steel optimizes Production Control with PSI/AIS Solution**

The implementation of the production management system for the 2150mm Hot Strip Mill of Rhizao Steel in China has been successfully finished by the local implementation partner Siemens Ltd., China. Production and quality planning as well as production scheduling are covered for the entire business process starting from order entry to dispatch of finished products. The acquired actual production data is further used for production, quality control, and planned versus actual comparison.

Mr. Chen Tong, Leading Engineer of Quality department says: "With this system's quality planning and comparison mechanism based on configurable rules, we can define flexible rules according to changing market requirements, and thus significantly reduce operators' workload, speed up the process and ensure the accuracy against manual operation at the same time."

The MES-System also provides fast and reliable information of order status, material consumption and output, and accurate information about stocks, to support enterprise information management with existing ERP and Logistics systems. Mr. Ji Sheng-feng, Manager of IT department says: "The solution merges into our current production information systems smoothly and adapts to our local specific business much faster and better than our expectation."

### **Heat analysis release with PSI *metals***

The evaluation of heats during or after production and the resulting decisions for release, re-evaluation or blocking of a heat to be further processed is often been done manually in many steel mills. This results in delays and more frequent mistakes.

To document all results of decision making in a reproducible way as well as to automate the release process PSI *metals* provides functions for the rule-based release of heats. For all grades of steel the related analyses including target and limit values are maintained in the system. This set of rules is easy to create and configure, and can be maintained and expanded at any time by the quality engineer.

In case of deviations during ongoing production, the quality will be assured by the

automatic determination of alternative grades which can still be achieved under the given conditions. The appropriate heat production orders are automatically determined using the production program and are suggested to the user.

If all limit values have been complied with after finishing, the heat is automatically released. If one or more limit values have been exceeded, an attempt is made to convert the heat to an alternative grade using the saved set of rules.

All usage and heat release decisions are rule-based and available online, even during ongoing production, with checking of each individual analysis, from the primary facility and secondary metallurgy through to the casting of the heat.

*For more information, please contact Mr. Heinz-Josef Ponten.*

## News & Events

### Latest Orders

**ThyssenKrupp Electrical Steel, France:** *PSI metals* for production control and quality tracking for the rolling mill and thermal treatment in the electric strip cold rolling mill in Isbergues, France; Targets: Harmonized processes and reduced expenditures in the IT administration by means of a standardized shop-floor system at both European plants. This order was preceded by the proven use of *PSI* systems at the Gelsenkirchen site and the successful implementation of *PSI metals* in slitting and packaging in Isbergues.

The connection to SAP and to the various sub-systems is handled by *PSI integration*. The commencement of operations for the rolling mill and thermal treatment is planned for the first half of 2010.

More information about the successful implementation in slitting and packaging area you can read in this newsletter in column "On top with *PSI metals*".

**AG der Dillinger Hüttenwerke:** Consulting and implementation services for the rollout of the proven solution in heavy plate production to the area of slab finishing for optimizing logistical workflows.

### Upcoming event

#### 25. Aachener Stahlkolloquium

From 11th to 12th March the 25th Aachener Stahl Kolloquium focusing on "Metal Forming" will take place in Aachen, Germany. Organized by the Institute of Metal Forming and the Department of Ferrous Metallurgy of RWTH Aachen the conference serves as a forum for information and discussion for experts from industry and research, these days on the topic "Global Challenges: New Markets for Metal Forming". *PSI* would like to welcome you on both days at our booth in the Eurogress Aachen.

More information about the event you will find on our website following this link [www.psimetals.de/ask](http://www.psimetals.de/ask).

#### **SUMMARY: Success for the Production Management Optimization for Steel Roadshow 2009 in Chicago area**

On October 15th industry representatives gathered south of Chicago in response to a *PSI/AIS* invitation to participate in a unique session discussing Production Management Optimization for the steel industry. More than 20 attendees from 10 different North American steel industry companies joined the forum.

Throughout the day, the attendees had the chance to gather understanding of the solution offering and development roadmap of *PSI/AIS*, the #1 supplier in the world of

Production Management software for the steel industry.

The sessions closed with a round table discussion concerning the financial crisis in steel and what PSI/AIS could do to support the industry in this time. The day ended in a more relaxed atmosphere in a popular local restaurant.

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