

### Content

[Customer Success Stories:](#)  
ThyssenKrupp Electrical Steel

[Product News PSImetals:](#)  
- Process chain spanning defect cause analysis  
- Welcome to PSImetals Cockpit

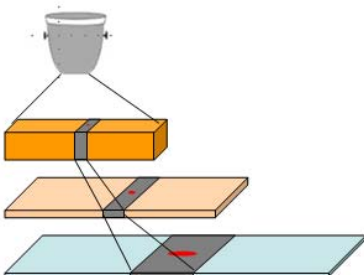
[Latest Orders:](#)  
- BGH Edelstahlwerke  
- SSAB, China, Sweden & USA  
- Vallourec, USA  
- Vallourec Mannesmann Tubes, China

[PSI Metals Company News:](#)  
- Name change AIS Belgium

[Events:](#)  
- PSImetals UserGroup 2011  
- EOSC 2011, Sweden  
- CP 2011, Italy

### Subscription PSI Metals Newsletter

You have received our Newsletter by forwarding and wish to subscribe now? Please click [here](#) to subscribe.



Dear Madam or Sir,

Enjoy reading the PSI Metals newsletter for producers of steel, aluminum and copper.

With our PSImetals Newsletter we inform you about product news, successful projects and latest orders. Special notes about industry-specific events and joint activities with partners complete our information services.

Yours sincerely  
Annett Pöhl

PSI Metals GmbH • [apoehl@psi.de](mailto:apoehl@psi.de) • +49 30 2801-1817

### Customer Success Stories

#### ThyssenKrupp Electrical Steel forges ahead with integrated PSI, SAP & IBM solution.

To meet the demands of its growing international business in an efficient and cost-effective way, ThyssenKrupp Electrical Steel (TKES) needed to standardize its production, business control and financial systems. The ultimate goals were to be able to optimize business and manufacturing operations using a standardized approach at all locations, and to provide consistent reporting on production and finance – regardless of location. This would require powerful, highly integrated ERP and shopfloor solutions running on a reliable, high-performance platform.

Working with IBM and SAP, TKES extended its existing SAP and PSImetals landscape to five locations. Business processes were extensively re-engineered to enable greater harmonization of operational activities across the company. TKES estimates that the combined IBM, SAP and PSI solution delivers cost savings of 25 to 30 percent over comparable solutions, thanks to its efficiency, consistency and reliability.

*[Please ask for the complete case study of IBM, SAP & PSI solution at TKES.](#)*

### Product News in PSImetals

#### Defect cause analysis based on the combination of data mining and material genealogy

The adherence to specific quality criteria is ascertained along the whole process chain. Despite a tight, real time supervision of the production conditions, the required quality standard cannot always be reached. Data mining technologies are already supporting many steel companies around the world to investigate cause&effect relationships between process/plant variables and product quality. The processes of operative quality control and subsequent defect cause analysis are, however, usually performed separately at each production step.

---

PSI*metals* enables the process chain spanning defect cause analysis by an integration of data mining and material genealogy. Therefore PSI*metals* correctly projects each segment of a product on the historic segments of the contained input materials including all related quality and process data. Correlations between quality and process data that were captured in various production steps, thus remain. The complete integration of data mining technologies with a material genealogy model and the possibility to define and apply problem adapted analysis scenarios in a very intuitive way is a highly innovative approach and offers completely new solutions for fast quality optimisations.

*This topic was presented within the METEC InSteelCon conference in June 2011. In our customer magazine „production manager“ a more detailed article will be published. We inform you at the date of publication.*

---



### **Welcome to the PSI*metals* Cockpit!**

Many impressed visitors as well as many interesting requests for our PSI*metals* Cockpit – those are direct responses to our METEC presentation. With the PSI*metals* Cockpit we presented an integrated and holistic view of production processes across all areas of a factory. Different scenarios as for iron making, steel making, rolling and others will show how local process deviations may influence planning, production and logistics targets in other plant areas.

*You can still visit our presentation. Filmed scenarios will show you our cockpit-vision via <http://messestand-online.de/metec11/psi/>. Have a look and enjoy the presentations!*

---

### **Latest Orders**

**BGH Edelstahlwerke GmbH, Germany:** Replacement of the proven PSI-steel mill control system (15 years in operation) by the latest PSI*metals* Standard with state-of-the-art functionality in terms of standardization, configurability and quality assurance for the steel mills in Siegen, Freital and Lippendorf.

#### **SSAB, Sweden, China & USA:**

PSI*metals* as yard management system for the new warehouse to be built in Oxelösund, Sweden for semi finished plates.

PSI*metals* as Manufacturing Execution System for new production lines and two new storage areas within the new cutting and painting facility for heavy plates to be built in Kunshan, China.

PSI*metals* as Manufacturing Execution System for the heavy plate facility in Mobile, USA.

#### **Vallourec Gruppe, USA & China:**

PSI*metals* as the Manufacturing Execution System (MES) for new forge for the big diameter tubes at Changzhou in China.

PSI*metals* as the Manufacturing Execution System (MES) for the new small diameter finishing mill at the Youngstown plant in Ohio, USA. |

[more...](#)

---

### **PSI Metals Company News**



**Name change of AIS Belgium:** In 2009 AIS Group became part of PSI Metals Group. Effective from May 2011 the legal entity name will be changed from AI Systems nv to **PSI Metals Belgium nv**. All company details such as address, bank details, VAT, registration remaining un-

---

changed. Email addresses change from [firstname.lastname@aisystems.be](mailto:firstname.lastname@aisystems.be) to [firstnameinitial/lastname@psi.de](mailto:firstnameinitial/lastname@psi.de).

All office locations of the PSI Metals companies you will find on our website [www.psimetals.com](http://www.psimetals.com).

## Events



**PSI metals Usergroup:** On September 27 & 28, 2011 PSI Metals and Salzgitter Flachstahl will welcome all PSI Metals customers to the annual PSI metals UserGroup in Bad Salzdetfurth, Germany. In addition to the exchange of experiences, customer presentations and PSI metals lectures, PSI offers the opportunity for a factory tour to the steel making plant or the casting plant at Salzgitter Flachstahl.

We are excited to welcome customers from PSI Metals Non Ferrous (former 4Production) for the first time. Detailed information (registration form, hotel reservation form, a.o.) you can find via [www.psimetals.de/en/usergroup2011](http://www.psimetals.de/en/usergroup2011). The agenda will be sent to all customers by end of August.



**European Oxygen Steelmaking Conference:** At the 6th EOSC from September 7-9, 2011 in Stockholm PSI Metals will be present with the joint technical presentation of BFI, Saarstahl and PSI about „Model-based dynamic monitoring and End-Point Control of Converter Process“. The lecture introduces structure and functions of the dynamic BOF process model for an optimized converter process. Furthermore it presents the advantages of an online integrated process simulation into control systems as PSI metals with respect to improvements in energy and resource efficiency. [Conference-Website](#)



**International Conference on Principles and Practice of Constraint Programming:** The International Conference on Principles and Practice of Constraint Programming is the annual conference on all aspects of computing with constraints. The CP 2011 will take place in Perugia, Italy from 12th to 16th September. PSI Metals is sponsor of the event. Furthermore PSI is collaborating with the Katholieke Universiteit Leuven on a research project called Parallel Advanced Planning and Scheduling (ParAPS). The goal is to assess how CP techniques can be used to solve optimisation problems in the area of steel production.

*About constraint programming, advantages and capabilities we recommend you a more detailed article in [issue 1-2011 of our customer magazine „production manager“](#).*

**Imprint** Responsibility for contents:  
PSI Metals GmbH  
Heinrichstrasse 83-85  
40239 Düsseldorf  
Germany

We've got your e-mail-address by a business contact with our company.

If you don't want to receive this newsletter, please send us an e-mail by clicking [here](#).

©2011 PSI Metals GmbH, all rights reserved.