



PSImetals Newsletter



*** Production Management for Metals *** 03/2006

Dear Sir or Madam!

Welcome to this, the third edition of our PSImetals Newsletter. Once again, we hope that we can provide you with interesting reports and new information on the topic of "Production Management for Metals". We hope that you have a very enjoyable read!

Do you have questions or helpful suggestions? Please give us a call (telephone +49/30/28 01-18 81) or write us an e-mail (rrzepka@psi.de). Please have a look at our homepage as well: www.psi-bt.com.

Yours sincerely Rainer Rzepka

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Solution & Product Management

P.S.: We would like to congratulate Annett Pöhl on the birth of her son Matti who was born on 29 June. Both mother and child are doing well.



On top with PSImetals



Middleware solution for TISCO Taiyuan Iron & Steel (Group) Co. Ltd., PR China: PSI is implementing a middleware server (MWS) as a communication infrastructure for Chinese steel producer TISCO. MWS is responsible for data exchange between a central SAP R/3 system and several Manufacturing Execution Systems (MESs) from different manufacturers. The technical foundation for this is *PSIintegration*, the EAI framework from PSI. The MWS provides RPC-based MES queue interfaces for data exchange from and to SAP. The message structures required are directly imported from SAP using an extraction tool. The SAP Java Connector (JCo) is the implementation basis for all *PSIintegration* components for communication with SAP. When data is downloaded from SAP to MES, the same message must frequently be passed on to several MESs in the TISCO environment. The MWS features a configurable router which is responsible for this distribution. If when uploading from MES to SAP messages are rejected due to temporary SAP object blocks, MWS performs a series of time-delayed send attempts. The integration of routing as a conflict solution in MWS also frees SAP and the MESs from additional complexity when it comes to message processing.

For further details please contact:

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Logistic processes optimized at voestalpine Stahl GmbH: A slab throughput control system (BDST) from PSI at voestalpine Stahl GmbH in Linz, Austria, ensures optimization of in-house slab logistics. In addition to the two existing pusher-type furnaces, the Austrian steel producer installed a walking beam furnace (HBO) to boost throughput of the heating furnaces for the subsequent hot rolling mill. The BDST

improves the utilization of existing transport resources and boosts logistics performance by mobilizing existing reserves. The different performance capacities of the furnaces increase their supply logistics. With the BDST system, joint planning and data supply for the HBO and the two pusher-type furnaces is possible; this ensures optimum utilization of the HBO. The efficiency of the slab transports is improved by optimized sequence generation and by considering future transport demand. Forecasting piling reduces sorting trips and prevents empty runs. The BDST permits automatic and priority-controlled supply of cranes in the furnace hall. A positioning system ensures correct material tracking even in the case of unforeseen slab transports. From considering the casting forecast for piling the hot material to resource planning for slab processing, the new logistics processes at voestalpine Stahl GmbH are fully mapped by the BDST.

For further details please contact:

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News & Events

Last Orders

Maanshan Iron & Steel Co., Ltd (MASTEEL), PR China: In rolling mill No. 4 of the Chinese steel company's new main production plant, *PSI Metals* is the solution of choice for production management. In addition to organizing planning, control and supervision of production procedures, *PSI Metals* also organizes the fine planing processes and optimizes the production sequence of all connected systems. The contract also involves the implementation of a Production Execution System for steel production in the new converter steel works.

ThyssenKrupp Steel AG, electric steel strip production, Bochum (TKS BNO): ThyssenKrupp Steel produces non-grain-oriented electric steel at its works in Bochum, Germany – formerly EBG Bochum. PSI was also commissioned to implement the third step of the shopfloor project. Based on the successfully implemented stages 1 and 2 for inventory management and plant planning, this stage will involve the replacement of the so-called cold-strip document holder as an information carrier. The measured values of the plant computer are gathered, saved and visualized at the workplaces. Furthermore, automatic error routes are generated from the measured sequences which form the basis for optimizing planning, in particular at the longitudinal slitting lines. This optimization means that planning work is easier and production is improved.

Peiner Träger GmbH: In an effort to boost efficiency and save costs with its logistics processes, Peiner Träger GmbH, Germany, commissioned PSI to expand the industry standard *PSI Metals* which is already in use. Initially, system-supported planning of raw material inventories of the STS and UMIT rolling mills will be implemented. Following this, the functions of the STS and UMIT presetting systems are integrated into *PSI Metals*.

Upcoming Events:

International Conference "STAHL 2006"

with symposium, presented by Stahlinstitut VDEh and Wirtschaftsvereinigung Stahl
November 09th - 10th 2006, Düsseldorf, Germany

METEC - 7. International Metallurgical Technology Trade Fair

with congress "InSteelCon"

June 12th - 16th 2007, Düsseldorf, Germany

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