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Cokemaking:
New stamp charging coke oven batteries at
ZKS, Germany, with modern design approach



Cover photo:
Battery No. 3 at Zentralkokerei Saar,
Dillingen, Germany

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Editorial

A. Hannewald

- 3 Dynamism instead of uncertainty

Columns

- 8 International industry news
- 74 Technical innovations
- 79 Cartoon
- 80 Literature service
- 82 In the next issue
- 82 Imprint

Topical themes

R. Loddo, A. Esposito, S. Pivot

- 26 **New stamp charging coke oven batteries at ZKS, Germany, with modern design approach**

The saving of energy and reduction of pollution are key issues worldwide. The coking industry is being called upon to improve its technology and equipment to comply with the increasingly stringent environmental protection guidelines. In this scenario, Paul Wurth Italia put into operation the new coke oven battery No. 3 at the ZKS Dillingen plant, Germany.

Ironmaking

- 32 **Cost-saving lighting for the cast house at ThyssenKrupp Duisburg**

The cast house of Europe's largest blast furnace was equipped with an energy-saving lighting system. It has reduced energy consumption for light by around one third.

- 34 **Two Corex plants started up at Essar Steel in Hazira, India**

Two Corex-2000 plants have been designed for a total production of 1.7 million tons of hot metal per year, and have been modernized by Siemens with new special equipment and automation systems.



Two Corex C-2000 plants were relocated from Korea to India

Steelmaking

Dr. M. Dorndorf, M. Abel, M. Hein, H. Huber, Dr. M. Fleischer

- 36 **New type EAF excels at melting direct-reduced iron**

Siemens VAI presents an electric arc furnace especially designed for the use of DRI and equipped for a continuous melting process. Melting periods and specific energy consumption are lowered, productivity is increased.

L. G. de Oliveira Amaral Mello, F. Memoli, N. Rondini, F. Ferrara, J. Villares de Freitas

- 40 **VSB operates first Consteel EAF meltshop in Brazil**

Vallourec & Sumitomo Tubos do Brasil recently started up the meltshop in its new plant in Jeceaba, Minas Gerais. The Consteel® EAF was designed for the production of one million t/year of liquid steel based on a very flexible mix of metallic raw materials.

T. Eichert

- 48 **Customizing of RH degassing technology in Russia**

The pressure is high on Russia's steel industry to follow the strict market demands for quality and economy in steel production. Four new RH units in different production lines and with different metallurgical tasks are described.