

MPT

INTERNATIONAL

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ISSN 0935-7254

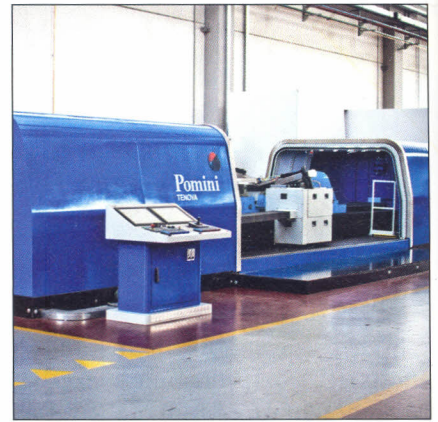
April 2014



New technology for surface finishing on work rolls for flat cold rolling mills

International industry news

- 30 AISTech 2014 returns to Indianapolis**
The Iron & Steel Technology Conference and Exposition will take place on 4 – 8 May 2014
- 34 Winners of the virtual steelmaking challenge**
The world finals of the 8th virtual steelmaking challenge took place in Brussels, Belgium, in February
- 36 Changes on the managing board of SMS group**
Burkhard Dahmen was appointed new spokesman of the SMS group



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Environmental protection

- 38 ArcelorMittal Ostrava invests in environmental improvements**
The company started a huge investment programme to reduce pollution at the integrated iron and steel works
- 44 Sound filter solutions applied to the treatment of fumes arising from flame cutting**
The off-gas arising in recycling operations are collected and filtered using a sophisticated technology

Steelmaking

- 50 New secondary steel treatment options implemented at Ternium-Siderar, Argentina**
A state-of-the-art vacuum steel degassing unit was recently commissioned and started operation in late 2013
- 54 Production of ferritic stainless steel in VOD plants**
An optimize process allows to achieve carbon and nitrogen levels lower than 150 ppm

Continuous casting

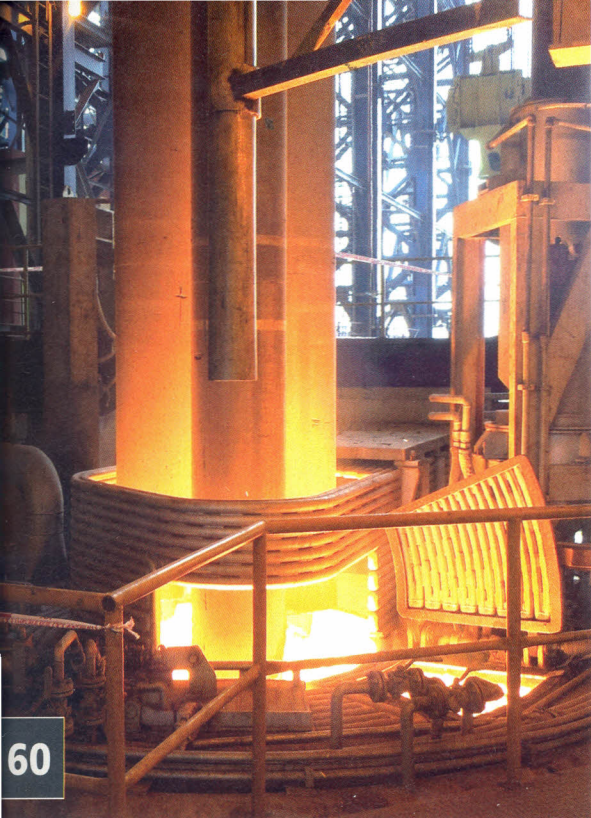
- 60 Meltshop and slab plant commissioned at JSPL Angul, India**
The DRI based EAF plant was successfully put into operation; also the slab caster commenced operation
- 64 New strand supporting roll technology to provide astonishing benefits**
The sophisticated solution will optimize the slab casting process and set new standards for efficient maintenance
- 66 Design and construction of the new slab caster at Salzgitter Flachstahl, Germany**
Designed as a bow-type machine, it is currently Europe's largest non-vertical continuous slab caster
- 70 High-end rail production at Evraz Novokuznetsk works, Siberia**
A mechanical soft reduction system was implemented at the bloom caster in the framework of a revamp project

Quality assurance

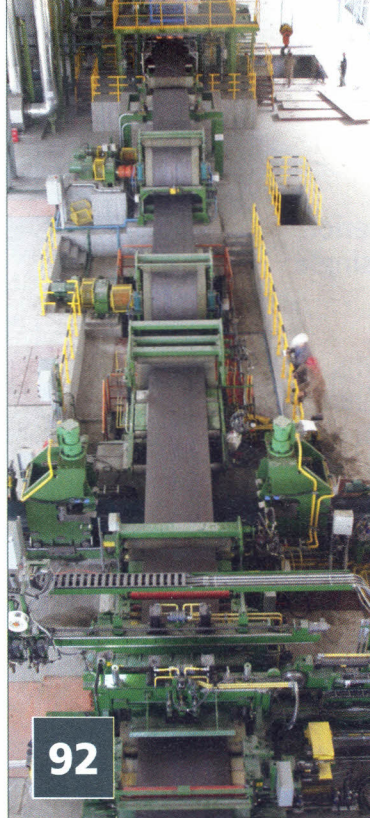
- 78 A common language for all data**
Gallatin Steel is using a quality execution system to make coil grading decisions by way of an automated process

Cold rolling

- 84 New technology for surface finishing on work rolls for flat cold rolling mills**
The concept completely re-defines the technology in terms of methods, operational and maintenance costs



60



92



38



34

Strip processing

88 Automation of a flying shear for cutting high-strength steel

The lower the complexity of the system, the lower the lifecycle costs – this combination also applies to systems used in strip processing

92 Sichuan Southwest Stainless Steel Company inaugurated new annealing and pickling line

The new plant will increase the annual capacity by 700,000 t of hot rolled stainless steel strips ready for downstream operations

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