Case study
SSAB
A major steel producer, SSAB is a leader in its niche specialty, high-strength steel. With production in Sweden and the USA, as well as finishing operations in China, the company has 9000 employees in 45 countries. SSAB’s blast and electric furnaces consume huge amounts of power – and make extreme demands on power generating performance and reliability. To make sure its generators keep generating, SSAB insists that its motor control equipment is SEMI-F47 certified. ABB is one of few suppliers able to satisfy the stringent requirements for this standard.

The intermittent failure of conventional contactors, when voltage sags caused them to weld together, was resulting in unplanned downtime, lost production and costly replacements. Health and safety was an issue too. Processing molten ore at around 1300°C makes any stoppage a potentially dangerous situation. SSAB had to find a solution that offered consistent and flexible performance, even in such extreme conditions.

Can we get consistent performance?

Absolutely.

SSAB.
Making certainty standard.

The client
A major steel producer, SSAB is a leader in its niche specialty, high-strength steel. With production in Sweden and the USA, as well as finishing operations in China, the company has 9000 employees in 45 countries. SSAB’s blast and electric furnaces consume huge amounts of power – and make extreme demands on power generating performance and reliability. To make sure its generators keep generating, SSAB insists that its motor control equipment is SEMI-F47 certified. ABB is one of few suppliers able to satisfy the stringent requirements for this standard.

The challenge
The intermittent failure of conventional contactors, when voltage sags caused them to weld together, was resulting in unplanned downtime, lost production and costly replacements. Health and safety was an issue too. Processing molten ore at around 1300°C makes any stoppage a potentially dangerous situation. SSAB had to find a solution that offered consistent and flexible performance, even in such extreme conditions.
The ABB solution

SSAB needed to secure a consistent and stable power supply, without unnecessary recourse to UPS (Uninterruptible Power Supply) or battery backup systems. Voltage sags arising from instability in the power network were causing conventional contactors to weld. SSAB turned to ABB, who proposed a solution compliant with the SEMI-F47 voltage-sag immunity standard with electronically-controlled advanced technology AF contactors.

3 400 000 tons

The amount of crude steel produced by SSAB in 2010. That is equal to the weight of 336 Statues of Liberty.

To maintain power, you need Control.
Contact us

ABB France
Low voltage Products Division
10, rue Ampère Z.I. - B.P. 114
F-69685 Chassieu cedex / France

ABB STOTZ-KONTAKT GmbH
Eppelheimer Straße 82
D-69123 Heidelberg / Germany

ABB
Control Products
Low Voltage Products
SE-721 61 VÄSTERÅS, Sweden
Telephone +46 21 32 07 00
Telefax +46 21 12 60 01

www.abb.com/connecttocontrol
www.abb.com/lowvoltage