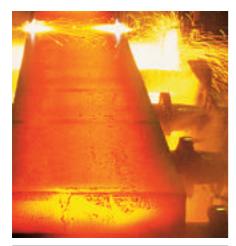
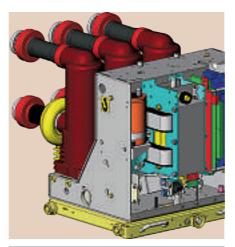
# Contents



Page 6 Faster thick-slab casting



Page 17 Intelligent – ABB's eVM1 circuit-breaker



Page 32 Extended automation

6 Direct control of electromagnetic braking for faster thick-slab casting A new tool optimizes the flow of molten steel in continuous casting for higher productivity and better slab quality.

#### 13 Robotics technology in automotive powertrain assembly

For robots to emulate humans on an assembly line, they need to exhibit forcesensing capability and compliance, and react to contact information. New robot technology from ABB shows how.

#### 17 The eVM1 medium-voltage circuit-breaker

All the functionality of outgoing feeders or medium-voltage motor applications can be combined in this intelligent integrated device.

#### 22 Simulation of high-current vacuum arcs

A simulation tool being developed by ABB promises a better insight into the physical limits of high-current interruption under vacuum.

#### 28 Detecting high-impedance faults caused by downed conductors

Downed conductors are dangerous *and* difficult to detect. A new ABB relay uses newly developed algorithms to reliably identify their location.

### 32 Industrial<sup>IT</sup> System 800xA

How can manufacturers best use the vast amounts of available information, especially data from 'smart' field devices, to drive productivity? ABB's Extended Automation System has the answer.

#### 38 Battery energy storage system for Alaska

The world's largest BESS is providing essential back-up power for 90,000 people in the Fairbanks area.

# Contents



Page 47 A 'new-look' customer interface



Page 53 ABB pressure group

#### 44 ACS50 – sizing up the consumer industry

ABB's new variable-speed microdrive targets new markets like the consumer industry, where applications, for example in home and medical appliances, abound.

**47** Navigating within ABB to find complete Industrial<sup>IT</sup> solutions One way in which ABB can uniquely serve key customers across industry is to

simplify and upgrade their interface to our company. Here's how.

### Innovative engineering

- **53 ABB pumping stations remove water from Gotthard Base Tunnel** Against an alpine backdrop, ABB equipment is pumping water 850 meters up a vertical shaft, out of the world's longest railroad tunnel.
- **57 Record-breaking car to go the distance with ABB** ABB drives and motors are being put to the ultimate test in an attempt by a British team to beat the world electric land speed record.
- 60 Vertical integration down Rio way A 'vertical design' was chosen by ABB's engineers to minimize the impact of a new substation in Rio's Copacabana Beach resort.

## **R&D** digest

- 61 ABB's partnership with MIT and Leaders For Manufacturing program
- 64 New compound reduces contact wear

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