

ABB Review 3/2006

Ingenuity at large

Ingenuity at large

6

Beyond the sky

When ABB gets into rocket science, the sky is no longer the limit. The company is helping launch satellites from a floating platform in the Pacific Ocean.

10

The “Silver Elephant”

What does a pipe of steel weighing 60t with a window to watch bubbles have to do with shipbuilding?

14

Uncommon problems, common solutions

From the pleasure beach to the ski slope and from olive oil to Formula One, standard ABB products are at work in not-so-standard applications.

Ingenuity in medicine

21

Robots with patients

The exercising of impaired limbs requires long hours of repetitive effort from physiotherapists – now what if robots could take on the chore?

25

Breathtaking – The Sherlock Holmes of gastroenterology

A *Helicobacter pylori* infection can trigger diseases such as gastritis, ulcers and cancer. Diagnosis? Elementary – thanks to spectral analysis of the patient’s breath.

Ingenuity and energy

29

A wave of renewable energy

A raging storm isn’t bad news for everybody – especially not for those who know how to harness its energy.

32

Guri Dam

In terms of energy, it’s the world’s second largest hydro dam. ABB is upgrading its control system.

37

The “shore” way to clean energy

Sharing instead of flaring - gas that was previously wasted is now finding not one but four uses.

41

The Arctic challenge

Liquefied natural gas far north of the Arctic Circle.

46

Electrifying London

A new power link to strengthen London’s grid.

Ingenuity on the move

49

Trained to fit

The transformer that makes any track the right track.

52

The compact converter

Few people realize that many of today’s highly successful lightweight trains are powered by ABB converters.

56

Cranes with brains

Thinking outside the box – but taking care of what's inside. Container ports move towards automation.

60

Hoist and haul

From mining hoists to outdoor leisure – a long haul? ABB is giving boaters an uplifting experience.

64

Skipping constraints

More speed and more business while using less fuel? Just the job for ABB's Azipod!

Ingenuity in analytics

68

Gas spectroscopy

From weather forecasting to fuel blending – a spectrum of applications for Fourier transform spectroscopy.

75

AquaMaster™

From mining to water networks, flow measurement is helping companies keep their feet dry.

78

Making news

High levels of automation and integration ensure the news is still hot when it rolls off the press.

