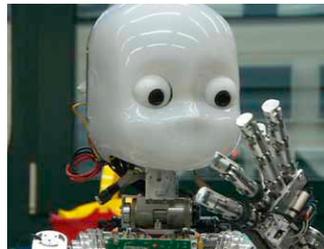


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Faster, Higher, Stronger – Tomorrow's Technology

Faster, Higher, Stronger – technology has always been a driving force of human development. Engineers around the world tackle every conceivable challenge and regularly achieve the impossible. Tomorrow's Technology is all about amazing adventures, intellectual and physical. **Faster, Higher, Stronger – Tomorrow's Technology** tracks the latest developments from the drawing board to implementation. The brilliant engineers of today are helping to shape the world of tomorrow.

01 Digital Thinking – Intelligent Robots **HD**

Robots are becoming increasingly useful to scientists and engineers. They inspect pipes and power stations, dive to inhospitable depths, and analyze rock samples on Mars. Their capabilities are advancing by leaps and bounds. But the artificial intelligence of robots differs greatly from human intelligence. Scientists are working hard to make robots much smarter and more like us.

02 Networking the World – Extreme Pipeline Construction

Pipelines are the lifeblood of our oil- and gas-dependent world. Many cut through very inhospitable regions of Earth. Laying pipelines is often a dangerous undertaking and one that presents engineers with huge technical challenges.

03 Mass Transportation – Tokyo's Railway System

Tokyo's urban rail network is used by around three and a half million commuters every day. Shinjuku is the main hub, and the busiest station in the world. It takes up-to-the-minute technology to keep so many people moving smoothly and safely at Shinjuku and throughout the city.

04 Mirror Power – Energy Production for the Future

The sun is destined to play a central role in future energy production. Huge solar power stations are already capturing tremendous amounts of energy and converting it into electricity. The solar furnace designed by inventor Denis Eudeline was far ahead of its time. Its enormous array of mirrors captures and bundles sunlight to produce incredible heat.

05 The Sky's the Limit – Aerial Cableways

Aerial cableways are now an integral feature of transport systems in mountainous regions, moving both people and goods over deep gorges and the most challenging terrain. Aerial cableways are also set to play a key role in city transport networks. In Algeria for example, cable railways are already a key element of public transport.

06 In Free Fall – Improving Parachutes

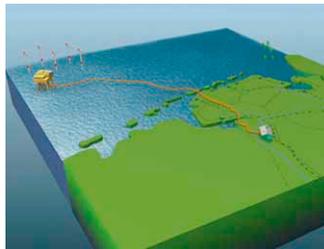
For many decades, parachutes have been an indispensable feature of flight safety. Civilian and military researchers are working on new parachute systems that will bring entire aircraft safely down to earth in an emergency.

07 Unstoppable – Plowing Through the Pack Ice

Double acting ships are the latest technological achievement in the shipbuilding sector. These tankers or freighters are also ice-breakers, which means they can navigate the dangerous Northeast Passage alone, and that is quite a challenge for crews and engineers alike.

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08 The Source of Human Energy – A Power Plant Within Us All

A person generates around 100 kilowatt hours of heat and kinetic energy every year. Researchers have begun to examine how this human energy source could be of benefit to the environment. Their vision is to transform the heat and motion generated by human beings into electricity.

09 Powering the Giants – Marine Propellers

The propeller is a key component of any ship. Its design is one factor determining the ship's speed and energy efficiency. The construction of a propeller is highly specialized work. Every propeller is unique, designed for one particular vessel and manufactured with incredible precision.

10 Sky High – Building Taller Turbines

Engineers are designing ever taller towers for wind turbines in order to increase their electricity yield, which climbs one percent per meter in height. The tallest ever turbine tower clocks in at 200 meters, and the whole thing weighs in at 7,000 tones. Engineers and construction teams perform amazing feats at dizzying heights, to ensure that these technological marvels go into operation.

11 Robots With Scalpels – The Operating Theater of the Future?

This is one medical vision for the future that is not without controversy: A new generation of computers able to work entirely self-sufficiently and conduct operations – more efficiently and more precisely than any surgeon. Before long, it's hoped that robots will be performing open-heart surgery and operating on the brain. But just how safe will these automated procedures be without any human control?

12 Quick and Clean – The New Generation Power Grid

The future of European wind energy is out on the high seas. Vast wind farms are planned 120 kilometers off the German North Sea coast – further away from the mainland than ever before. Transporting the electricity over such long distances requires new technology: High-voltage, direct-current transmission.

13 Technology in Miniature – A Scale Model of the World

How is it possible to travel across all of central Europe and the US in just a few hours? The answer is simple: By visiting the "Miniatur Wunderland", or miniature wonderland, in Hamburg, Germany – an enormous model railway built on the scale of 1:87. 1,000 trains, 11,000 wagons and 200,000 plastic figures animate this exciting, tiny world. The attraction is a technological masterpiece that pulls in the crowds.