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## microscopic archive

The Rosetta Disk fits in the palm of your hand, yet it contains over 13,000 pages of information on over 1,500 human languages. The pages are microscopically etched and then electroformed in solid nickel, a process that raises the text very slightly - about 100 nanometers - off the surface of the disk.



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## velvet rocketship

The Bugatti Chiron is a car with a spec sheet full of world-conquering numbers: nearly 1,500 horsepower, 1,600 Nm of torque, top speed somewhere north of 420 km per hour and a cost of €2.856 million to name just a few.



## regulars

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Robot lands a 737 by hand	
The world's first electric vertical take-off and landing jet takes off	
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Think global, act local - There is a paradigm shift in the European tool and mouldmaking industry, believes Prof. Thomas Seul, vice president for research and transfer at the University of Applied Science in Schmalkalden, Germany.	
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Lower carbon dioxide emission is one of the significant goals of the future. Not only for Germany, but also for the EU and all industrialised nations. Trimming down the weight of cars, planes and trains offers a potential solution for saving energy and raw material.	
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Support vessels carry out a multitude of different tasks.	

## basics – crawler cranes

No longer are smaller mobile cranes asked to do one job. Now, ever-growing cranes must serve multiple purposes. The crawler crane has the capability to work on every type of ground surface, even on the softest grounds, thanks to its specially designed track properties. The metal tracks make the crawler crane very stable on the ground and also provide increased maneuverability on the ground.



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## brazil – where the city meets the sea

After decades of overselling a handful of tried and tested beach destinations, Brazil is now inviting travellers to explore further. Even the mildly adventurous tourist can get deep into the Pantanal, the immense wetlands of the south that rival the Amazon for biodiversity, or drive the coast roads of the north-east. Intrepid beach lovers can mingle with Brazilian travellers on the Costa Verde, in Fortaleza and in the resorts of Santa Catarina.



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## technology

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Civil engineering

**history** 61  
Robert Bosch opened its Workshop for Precision Mechanics and Electrical Engineering in November 1886 with two employees. Five years later the company counted 15 employees and reached the verge of insolvency in 1892. A lot has happened since then. Today, Bosch employs around 375,000 people and generates annual sales of €70.6 billion.

**history audio** 63  
The CycloCrane – a hybrid airship developed in the 80's.

## worldwide

**business partner** 36  
The Netherlands (or Holland) may be a small country, but it's packed with world famous icons including tulips, windmills, cheese, and millions of bicycles. We have compiled some information about the Netherlands and the Dutch to help you doing business in Holland.

**topic** 20  
Are you emotionally intelligent? When emotional intelligence (EQ) first appeared to the masses, it served as the missing link in a peculiar finding: people with average IQs outperform those with the highest IQs 70 percent of the time. This anomaly threw a massive wrench into the broadly held assumption that IQ was the sole source of success.

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