

TOP 10

Hanzelka & Zikmund Tatra T87

The original Tatra, now the pride and joy of the National Technical Museum, not only commemorates the adventures of the famous duo, but also the Czech tradition for streamlined car body design.

Sodomka Aero 50 "Dynamik"

The unique specimen of the vehicle on display, as produced by the famous body shop situated in Vysoké Mýto, can also be seen in miniature 3D-printed form.

Zbrojovka vz. 26 (BREN)

The legendary machine designed by Zbrojovka Brno, and produced under license, saw major use on the battlefields of World War II.

Škoda Vision X

As tradition dictates, the largest and most successful car manufacturer in the Czech Republic is introducing its latest concept vehicle at the International Engineering Fair.

Jet Loom P45

The jet loom, designed by Vladimír Svatý and a Czechoslovak patent, significantly accelerated production and became an important export product.

Tatra 603X

The 603X prototype should have been a design alternative to the famous T603 limousine. It was created in Bratislava by the Tatra design atelier, but never went into production.

M260.0 "Silver Arrow" Locomotive

The aerodynamic body of the "Silver Arrow" was designed to compete with Tatra express trains' "Slovak Arrow". Only one piece was produced by ČKD at the turn of the years 1938 and 1939.

Zetor Crystal

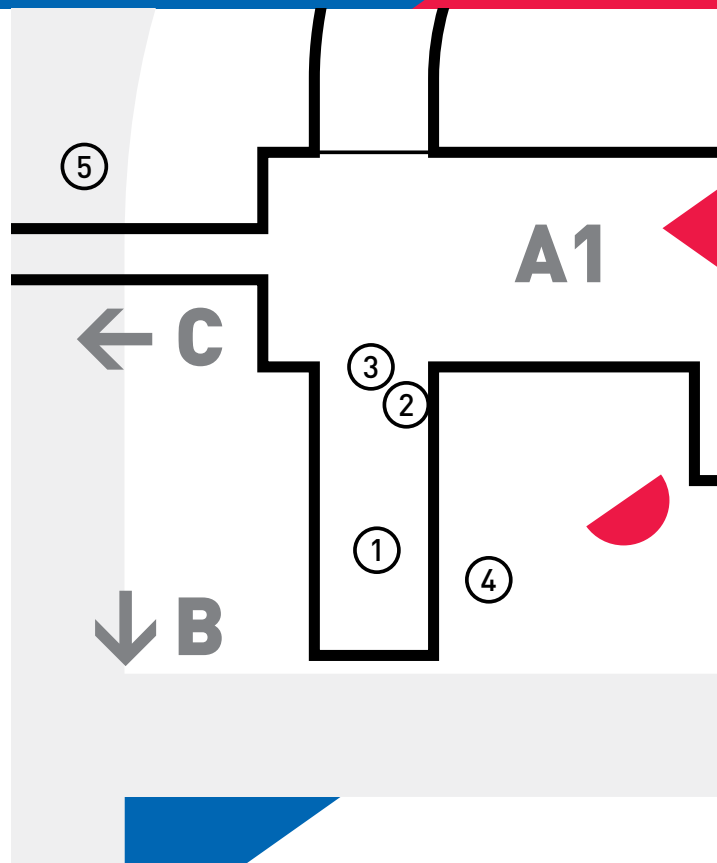
The legendary Crystal was added to the portfolio of the world-renowned tractor producer fifty years ago. At the fair, both the original Crystal with its revolutionary safety cabin and its completely new namesake are on display.

Kovosvit MCSY50A "Boháro"

The multi-functional machine tool, which combines machining and turning technologies, and which was nicknamed the "Boháro" and is still in use to this day, made the Czechoslovak company Kovosvit famous all over the world. Machines produced by other giants in the industry, such as Šmeral Brno, Žďas, TAJMAC-ZPS are also on display.

T2 Tram

The iconic T2 Tram was referred to as the "Sputnik". It transported visitors to the International Engineering Fair in 1959.



- 1 Passenger vehicles, electrical engineering industry, machine tools and forming machines
- 2 Czech Innovation Expo
- 3 TGM90
- 4 Trucks, heavy-duty vehicles, buses
- 5 Rolling stock, public transport

100 STORIES

CZECHOSLOVAK INDUSTRIAL LEGENDS





Dear Visitors

Welcome to the Brno Exhibition Centre and this the 60th International Engineering Fair. If you are holding this guide in your hands, you are in all likelihood setting foot in the A1 pavilion, host to the 100RIES exhibition in the majestic rotunda. The exhibition tells the stories behind one hundred Czech and Slovak industrial legends - products that have brought and bring honour to both countries across the world.

Even though the fifty exhibits on display are unique, the most challenging task was not to bring them together, but to make a selection from the thousands of incredible stories that make up Czech and Slovak industrial history - be it from the history of Czechoslovakia that was founded one hundred years ago, or that created over the six decades of the engineering fair.

The stories behind the legends of Czechoslovak industry are something to be really proud of. However, when you read them, you could be forgiven for being left with a bittersweet aftertaste, in particular when you come to realise how the historical ups and downs of the 20th century sealed the fates of many Czech scientists, design engineers, famous factories, and renowned brands.

I hope that while passing through the exhibition, the story of human invention, enthusiasm, desire, and hard work comes to the fore, and that it becomes clear that it is these tremendous forces that drive the development and the bringing to life of all the iconic products that surround us. The best news is that brilliant ideas continue to be generated by Czech and Slovak minds. The best evidence of this is not only the 100RIES exhibition, but also the 60th International Engineering Fair itself, which displays the best products both Czech and Slovak industries currently have to offer.

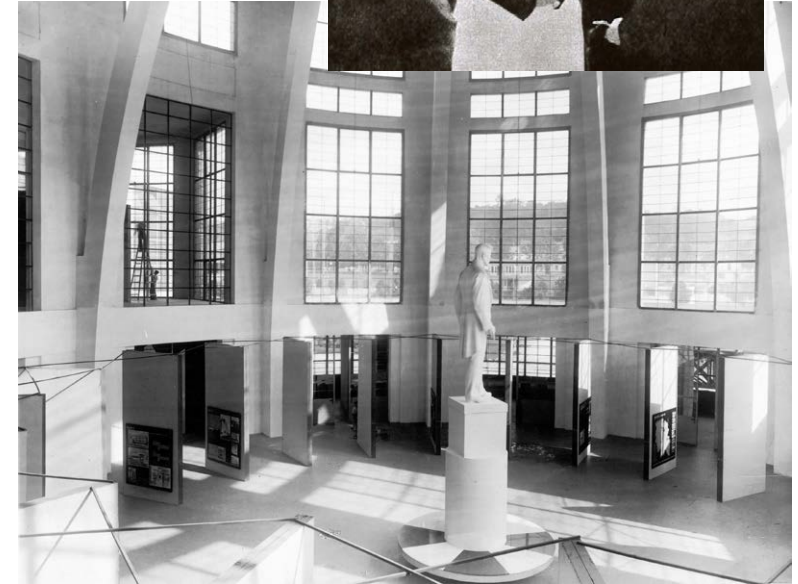
Lost Masaryk returns to the Brno Exhibition Centre

When the Brno Exhibition Centre was officially inaugurated in May 1928, the president, Tomáš Garrigue Masaryk, looked down at the crowds of visitors. The heroic sculpture was mounted on a pedestal and placed inside the rotunda of the central A pavilion. No-one really knows what happened then and how the statue was lost.

Today, after ninety years, and due to the joint efforts of MCAE Systems and Veletrhy Brno, the statue will make its return to the Brno Exhibition Centre. In 2017, it was discovered that the statue was most probably a gypsum plaster cast created by Otakar Španiel. The model was used for no less than three bronze sculptures, of which two are deemed to have been lost, and the third was known to be in the depository of the Národní muzeum (National Museum). During the International Engineering Fair, a more than three-metre high robot will mill a 3D replica of the statue from 1928. 3D data scanned from the model of the statue kept in the Prague depository will provide the basic information for the creation of the artwork.

Before the 100RIES exhibition started...

MCAE Systems from Kuřim, "the number one company on the market", accomplished the tremendous challenge of returning Masaryk to the Brno Exhibition Centre. Before the start of the International Engineering Fair, the company tested all the steps for doing so by creating a bust and historic statue of Masaryk based on data collected using a GOM ATOS 5 3D scanner. The computer model, created as a polygon mesh, was transferred to Tebis CAD/CAM software - a programme for robotic machining strategies. A Kuka industrial robot subsequently milled both objects from easily modelable polyurethane SikaBlock M330 - firstly roughly, then adding little details after cementing with potter's clay. The sculptor Ladislav Jezbera from the Secondary Stonecutting and Sculpture Industrial School in Hořice finalised the shape. His own production is characteristic of experiments with modern technologies.



Participating in the exhibition:

Exhibition theme	Jiří Kuliš, Jiří Smetana - Veletrhy Brno
Project manager	Jiří Smetana - Veletrhy Brno
Architect	Petr Sopoúšek - Expodesign
Realisation	Tomáš Moravec, Tomáš Odstrčil - Veletrhy Brno
Production	Věra Menšíková, Ludmila Bušová - Veletrhy Brno
Editor	Halka Horká - Veletrhy Brno
Graphic designer	Jan Uiberlay, Petr Kincl - Kreatura.cz
PR and marketing	Karolína Křenková - Veletrhy Brno
Translations	NK-Translators