

Teamcenter • NX

## Motor Jikov Group

Use of Teamcenter and NX help Motor Jikov Group become a market leader in CNG car filling stations

### Industry

Industrial machinery

### Business challenges

Track complex, disparate data  
Manage change

### Keys to success

Implement a system to manage change processes, enable collaboration among groups and create best practices to reduce costs

### Results

Integrated CAD and CAM foster better, more efficient product development  
Complete, transparent documentation eliminates guesswork  
A single source of secure, easy-to-access data facilitates collaboration, best practices and productivity  
First to market in Czech Republic with innovative CNG filling stations

### 21st-century home “filling stations” dispense compressed natural gas

#### Thriving business

A century ago, the first roadside commercial “filling stations” began to appear, beckoning drivers to stop in for gasoline, lubricants and mechanical services. Today, drivers can gas up at home, using 21st century “filling stations” – the compact machines that are used to fill up modern cars equipped to burn compressed natural gas (CNG). A Czech-based manufacturer, Motor Jikov, is doing a thriving business in providing these machines to homeowners.

Motor Jikov Group a.s. (Motor Jikov) includes a number of engineering and

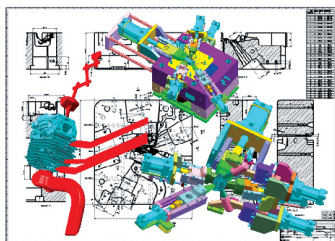
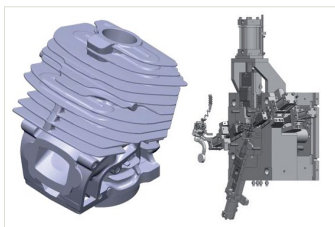
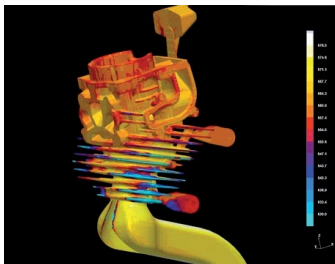
foundry companies. The centralization of these companies into a single entity made it possible to create synergies that have fueled more efficient production and better operating results. In total, the group employs 900 people, with annual sales exceeding CZK 1 billion. The main industries in which the group operates are accessories and components for passenger vehicles and trucks, pressure casts of zinc and aluminum alloys, casts of grey cast iron, special machine tools, CNG filling technologies, injection molds, riveting tools, lawn mowers and other machines.

Given the scope of this portfolio, it is evident that if synergies are to be used to the fullest extent, the company must have not only transparent and powerful software



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Engineer  
Motor Jikov Group



for designing individual parts but also, and quite critically, software that can connect complex and often disparate data. To that end, Motor Jikov implemented Teamcenter® software from Siemens PLM Software. Teamcenter can be used to connect people throughout the lifecycle with a single source of product and process knowledge.

#### Success with NX leads to Teamcenter

The company already had experience with another Siemens PLM Software solution, having used NX™ software since 1996. NX is a next-generation digital product development system, featuring the industry's broadest suite of integrated, fully associative computer-aided design (CAD), computer-aided manufacturing (CAM) and computer-aided engineering (CAE) applications.

“We have been using CAD and CAM for many years, and one could say that we could not exist without these today,” says Ing Vladimír Kubeš of Motor Jikov Fostron. “We have been using NX for quite a long time. It is a robust, comprehensive system, which we decided to use on the basis of our good experience with the designing and building of molds. With NX, we have a unified solution for product development

throughout the group. Now, Teamcenter is also playing a big role in our company. It is thanks to this solution that we can keep our documentation up-to-date, manage the process of changes and collaborate across the group.”

Teamcenter is not only used for document management and collaboration between worksites, but also to process documents received in diverse formats. “Our subsidiary in Soběslav focuses on special projects commissioned by clients,” says Kubeš. “The documents for these projects often arrive in various formats and Teamcenter allows us to capture all this information in a single database and to easily work with it.”

#### First to market with CNG filling stations for home use

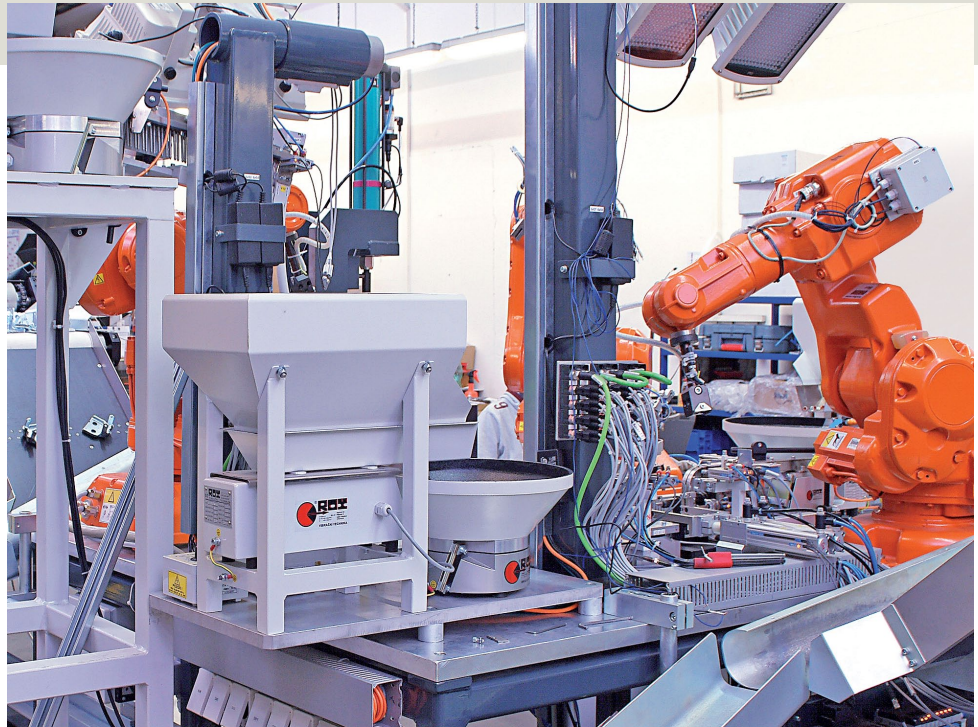
Among its specialties, the subsidiary in Soběslav is using both NX and Teamcenter to develop and produce its highly successful CNG filling station line. “With today's fuel prices, every efficient measure is welcome and CNG proves to be a very successful solution,” says Kubeš. “Unlike LPG (liquid petroleum gas), which can be filled only in specialized stations, CNG can be filled at home, wherever there is a natural gas connection.” He adds, “That is, if customers buy a Motor Jikov filling station.

## Solutions/Services

Teamcenter  
[www.siemens.com/teamcenter](http://www.siemens.com/teamcenter)  
NX  
[www.siemens.com/nx](http://www.siemens.com/nx)

## Customer's primary business

Motor Jikov Group manufactures components and accessories for cars and trucks. It specializes in aluminum and zinc castings, special machine tools, assembly equipment, CNG filling equipment, injection molds, riveting tools, lawn mowers and cleaning machines.  
[www.motorjikov.cz](http://www.motorjikov.cz)



## Customer location

Ceske Budejovice  
Czech Republic

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The small CNG filling stations are very efficient and they are a very good investment both for companies and private users." Kubeš, who uses a company car fueled by CNG, notes, "Yes, I can confirm that the savings are significant."

Motor Jikov is enjoying significant success with its CNG filling station line. "We have no competitors in this market in the Czech Republic," says Kubeš. "We were first-to-market, having successfully developed and launched this system."

## Siemens Industry Software

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