

KOMPAS-3D drives industry digitalization at PC Transport Systems



Pictures by PC Transport Systems

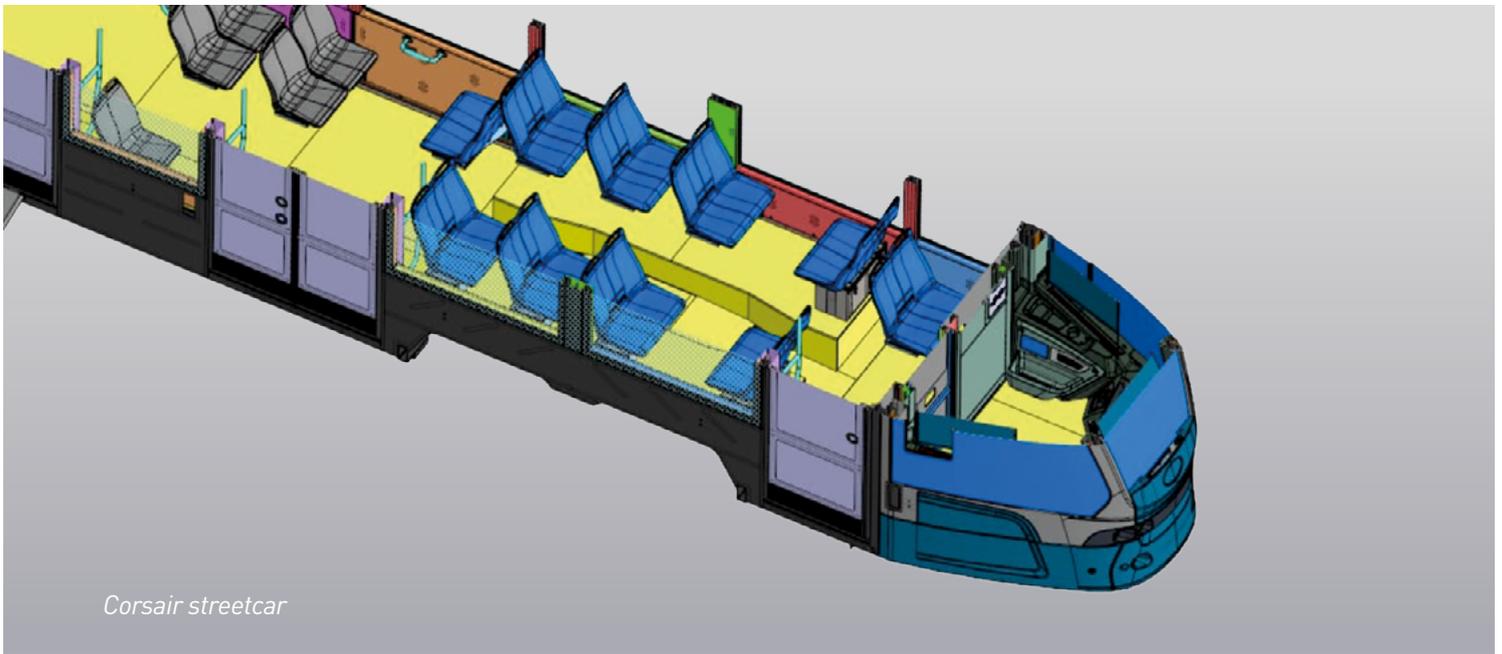
Company Profile

PC Transport Systems specializes in manufacturing a fully low-floor rolling stock and produces 8 low-floor tram models and 2 electric wheel transport models: the fully low-floor trolleybus Admiral with increased autonomous motion and the innovative bus Pioneer using MAC. The Company is committed to its main tenet: each new product combines the advanced global technologies, innovations and exclusivity. At the heart of

the design of trams produced by PC Transport Systems is a unique patented elastic swing carriage. The cart is available in three versions: for the track width of the tramway of 1,435 mm, 1,524 mm, and 1,000 mm. The Company's top priority is to partner with European cities in comprehensive addressing of the objectives of modern, reliable and comfortable transport support of passenger transportation.



Lion streetcar



Corsair streetcar

Challenge

Rolling stock manufacturers need to constantly update their products and key IT systems as the transportation means should be aligned with the global trends of public transport and adapted to real operation conditions. This use case describes how PC Transport Systems has switched to KOMPAS-3D from another CAD system, and now manufactures state-of-the-art urban transport enabled by digital solutions from ASCON.

Solution

Initially, PC Transport Systems used SolidWorks as a design tool. In 2017, they ran a pilot project to assess the capabilities of KOMPAS-3D from ASCON. Both technical and economic aspects were analyzed including the deployment period, CAD quality, support for virtualization, and total cost of ownership (TCO).

Results / Business Values

Based on the testing results, and taking into account the highly appealing total cost of ownership, PC Transport Systems made the decision to switch over to KOMPAS-3D as their primary design software. To support this transition, the company's design engineers participated in a structured training program focused on mastering the new system for 3D modeling and drafting tasks. One of the most significant innovations introduced during the deployment of KOMPAS-3D was a complete virtualization of every workstation and service. This shift allows employees to access their individual workstations remotely, from any computer, at any time, offering increased flexibility and efficiency. Using KOMPAS-3D, engineers successfully developed key components for the Vityaz-M, a next-generation streetcar, as well as the Corsair, a narrow-gauge streetcar designed for specialized urban transit applications.

KOMPAS-3D

Intended for creating 3D-models for individual parts and assembly units containing both original and standardized structural elements. Supports modern design methods, such as top-down and bottom-up approach.

- Solid Modeling
- Surface Modeling
- Sheet Metal
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