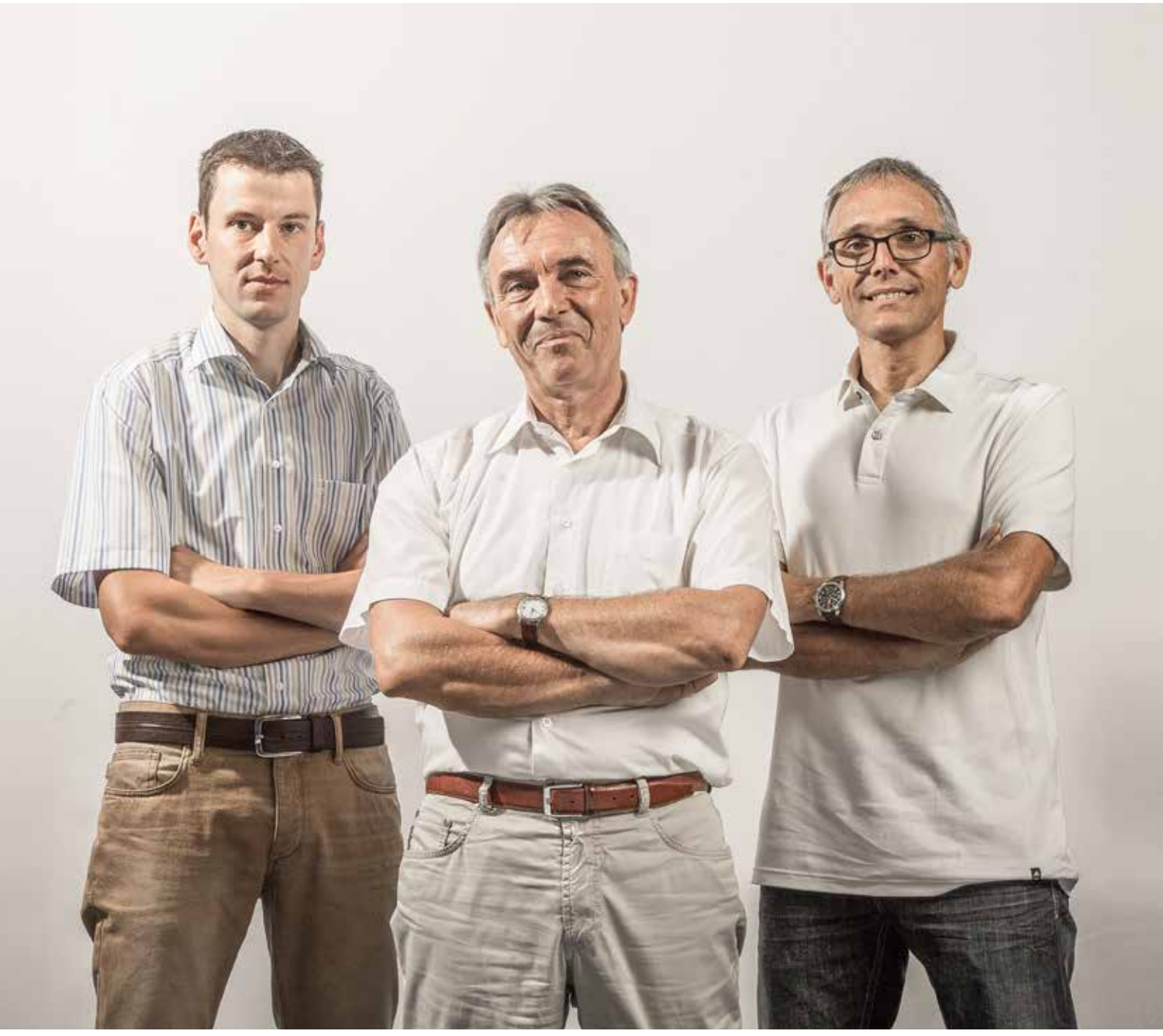
AUTODESK.



Genius that goes with the flow

The engineering team at Ammann Group

In just six months, Ammann Group built the Prime 140 – a mobile mixing plant that produces 140 tons of asphalt per hour (on the move). The team uses the Autodesk® Digital Prototyping solution and Autodesk® Product Design Suite with Vault.





Meet our rock and roller

It's Bruno Schwager, CIO at Ammann Group.

Bruno helped expand into South America.

"When it comes to static plants, asphalt has to be produced in a fixed location. From there, the hot asphalt (measuring up to 180°C) is placed on the road. If the radius is too big, the asphalt will cool down too quick. That's what happens in South America where it's too expensive to build static plants every 15 to 18 kilometers."

"This meant developing a horizontal asphalt mixing plant that is mobile. The Prime 140 can be attached to a towing vehicle and produce asphalt without previous installation. We were able to develop it within a period of about 6 months."

"The reason for our success is that the Ammann Group is very innovative. And the core components of our innovation, such as our burners, were completely re-designed using Autodesk Product Design Suite."

The entire system could be represented down to the finest detail, in multiple components, while simultaneously allowing designers to work on it properly, without having to break up the overall design in to small pieces."



Meet our fixer

It's Bruno Meier, CAD manager at Ammann

Bruno automated workflows across 200 workstations - in over 10 counties.

"I'm team leader of CAD at Ammann. It's a very small team and we are responsible for the whole CAD environment – installation, configuration, training, work processes, support and more."

"We have a lot of different companies within Ammann. One deals with plant design, one with machines that break roads, another that lays asphalt. We have to connect all the people and offices together and synchronise workflows and ideas into one process."

"That's very challenging because we have nearly 200 work stations all together – located in more than 10 countries. It is a very big installation."

"We build up e-learning courses to explain new functionality to end-users and offer global update training.



Autodesk helps us do that – and gives us products for each industry we work in. Today, 3D is the daily way of working. The time it takes to close the deal is shorter because you only need to explain something one time – rather than three or four – and then show a 3D picture or photographic rendering. We use Inventor, AutoCAD Mechanical, and plan to use Showcase and Navisworks. Autodesk will help us with the challenges of the future."



Meet our lateral thinker

It's Jan Thomschke, development team leader at Ammann Group.

Jan coordinated 25 designers in three locations to complete one big project.

"I'm group leader for new developments like Prime."

"In Europe we have lots of space when it comes to building asphalt plants – about 30m of height. However, in Brazil, the asphalt plant had to fit on the trailer of a pick-up. This meant we had to reduce everything in size. We weren't allowed to build vertically at all."

"We had project members working in Brazil, Germany and Switzerland; all at the same time. All were working on the same project, but everyone had a specific part they were responsible for. The challenge was that all the different parts had to be assembled together and mounted without any collision points."



"That's the biggest advantage of using Autodesk Inventor – collision control. It's the A to Z in the 'plant' industry."

"There were approximately 25 designers, all working on the same project, but on three different locations and the construction period – from doing the market research up to completion of the industry." plant – took only six months."