

Electric servo-drive for nuclear plant NAB5

SCHIEBEL Halves its

Czech milling and turning specialist SCHIEBEL s.r.o., has been using CATIA PLM Express and 3DVIA Composer for just three months. In that short period, the benefits have been so wide ranging that the company now has made the implementation of PLM a short-term goal.

Focus on 3DVIA Composer

3DVIA is the newest of Dassault Systèmes' six brands and the thinking behind it is simple: establish 3D as the universal language for businesses and consumers to communicate. 3DVIA Composer was designed for use by non-technical users.

The solution enables the reuse of digital product definition data, including 3D design data and bills-of-material information, eradicating rework at a stroke. Input data can come from any 3D CAD system and can be maintained in the file system or in any PLM system, while outputs from 3DVIA Composer are industry-standard file formats, including PDF, HTML, AVI and graphics formats like SVG and CGM.

With 11 employees and a long history of using CAD systems, SCHIEBEL s.r.o., produces electronic actuators for the atomic industry and designs and develops devices for the aircraft industries – all using the most modern CNC equipment.

CAD AS A UNIQUE SELLING POINT

Five years ago, Marek Roskol, SCHIEBEL's CAD expert, began to feel frustrated by the limitations of his existing CAD package. "Our assemblies for the aerospace sector were becoming more complex resulting in technical problems and our various solutions were hard to explain to our customers. I decided to scour the marketplace to find the most advanced package available. I had CATIA experience in the past, but the functionality of 3DVIA Composer proved to be a revelation. It meant we would be able to take our engineering ideas and share them with our customers at a very early stage of the design process. Our engineering CAD data, which lies at the heart of what we do, could be turned into a marketing and account management tool."

Since installation, just three months ago, the SCHIEBEL team has deployed its CATIA PLM Express and 3DVIA Composer software on fifteen projects. The company has been supported and trained by Dytron, a Dassault Systèmes' VAR in the Czech Republic. SCHIEBEL's account manager at Dytron, explains: "The

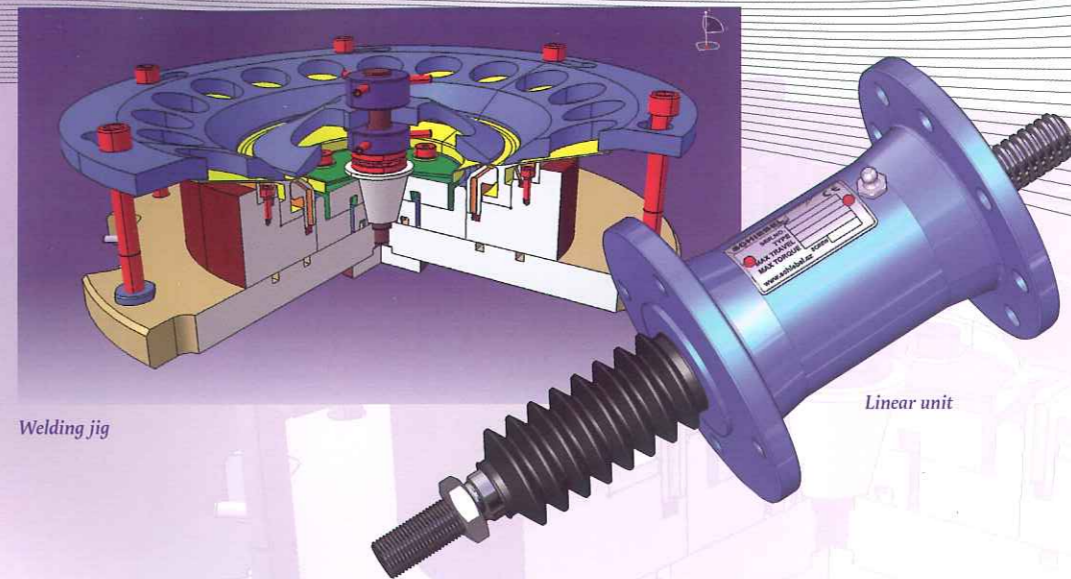
Bringing customers' virtual prototypes to life.

SCHIEBEL team has been rapid in mastering both CATIA and 3DVIA Composer. Partly, I think this was because some of the team had CATIA experience, but I think that mainly they have been so successful because they saw the advantages of bringing their virtual prototypes to life for their customers."

One big hurdle that SCHIEBEL was relieved not to have to overcome was the need for translators between CAD packages. This has meant that data generated in its old CAD package can be reused with the minimum of fuss. The company was also surprised to learn that even highly complex, 3D assemblies can be modeled and displayed with an ordinary PC.

FROM ONE MONTH TO A FORTNIGHT

Speed was not a critical factor in SCHIEBEL's decision to invest in Dassault Systèmes software, but nevertheless, Roskol's team has found that the time taken from the receipt of the first STEP or IGES customer file to the delivery of the final product has been roughly halved. "We present our first, basic, 3D design after about five days", Roskol says. "After that, it now only takes us ten days to complete all the 3D documentation for the manufacturing process and 14 days to



Welding jig

Linear unit

Design Cycle

By Vladislav Polach

realize a physical prototype. The main reason why we implemented CATIA solution is the excellent quality of mathematical models and fantastic graphical output, which allows maximal decreasing task of production management. The exactitude of CATIA output has a key role in our production and afterwards measurement on our CMM machines. Many of the laser jigs, welding jigs, stamping tools, control master jigs we manufacture for our customers are either complete one offs or very limited production runs, so being able to guarantee high quality precision is really everything."

Even highly complex, 3D assemblies can be modeled and displayed with an ordinary PC.

The reaction of SCHIEBEL's blue chip client base, including companies like Honeywell Aerospace and Kaps Transmission amongst others, has been overwhelmingly positive. Many have taken the opportunity to bring non technical managers to SCHIEBEL's meetings because, thanks to the superb 3D graphics and animations Roskol's team has been able to produce, issues that need to be discussed are clear to experts and non-experts alike. Customers have been able to fully understand a virtual product's

We consider our new software as our 'ace card'.

functionality, enabling them to make any modifications of the design early in the design cycle. This is one of our best competitive advantages. "We have branded all our models with our logo," says Roskol, "not just because we are so proud of them, but also because thanks to CATIA and 3DVIA, our technical superiority is plain for all to see. None of our competitors can offer either such incomparable data or such brilliant graphical expression. We consider our new software as our 'ace card'."

PLM BECKONS

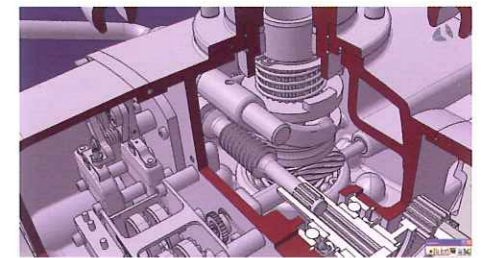
With CATIA and 3DVIA Composer having made such an impact in such a short space of time, SCHIEBEL is determined to press on towards PLM. Roskol explains: "The sheer plethora of projects means we are handling more and more data. Having looked into ENOVIA SmarTeam, I can see that it could help us manage our iterations, documentation and customer collaboration more effectively. Given that we can be certain of great support from Dytron, we have made PLM a short term goal this year" •]

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in practice

SCHIEBEL
Mechanical Design

dytron



Electric servo-drive - detail

More about SCHIEBEL

SCHIEBEL s.r.o. was established in 1996 as an affiliate company of SCHIEBEL GmbH Vienna. The company focuses on CNC milling and CNC turning. The main production volume of the company consists of welding, turning, milling and checking fixtures for the aviation industry, as well as single part / small batch production for various industrial applications.

SCHIEBEL's most important target is customer satisfaction regarding their products and services. The client-oriented approach is a vital prerequisite for success in the international industrial market.

SCHIEBEL's team - Design department

