



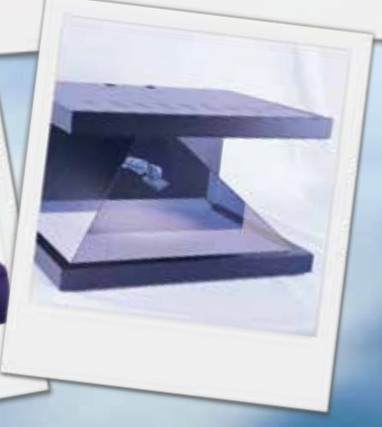
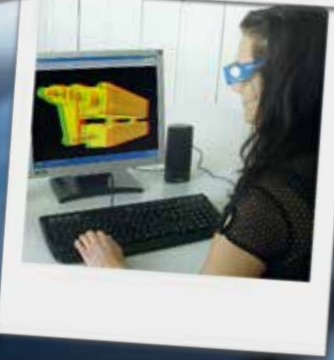
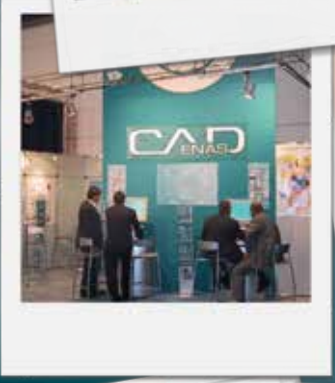
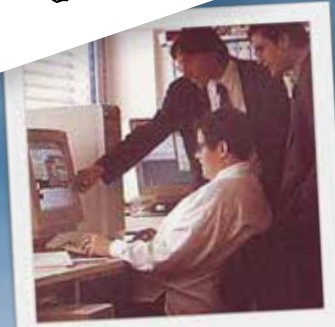
CUSTOMER MAGAZINE

Joint Success 2016

Successful Projects, News, Events and much more



25 Years CADENAS



EDITORIAL

That was the year of 2016!

Dear CADENAS customers and partners,

Tim Berners-Lee started a small project at the end of the 1980s that was to simplify data exchange of the CERN research center. This resulted in today's World Wide Web. We recognized the potential of the beginning age of IT already back in the early 1990s and grew from a small engineering office to one of the most successful international software companies for Electronic Product Catalogs and Parts Management with currently 300 employees at 17 locations. We quickly developed a feel for trends and are inspired by innovations in all kinds of areas time and again. This has led to new ideas, like how manufacturers have been able to successfully market their products with intelligent engineering data and how companies from the industry optimize their design processes.

Industry 4.0, or the digitalization of the producing industry, has become an important issue worldwide. The more single components should communicate with each other in the production process, the more intelligent the digital data must be. Keyword: digital twin. With our software solutions, we are a part of the digital revolution and go the first steps with our customers on the way to Industry 4.0 and to the Internet of things. The many customer suggestions for the further development of our software is crucial for our success, thereby contributing to your success.

As a former engineering office, the support of engineers and purchasers is especially important to us. Optimized and above all simplified processes, which can save as many costs as possible, form the basis for successful industrial companies. Starting with the first CAD data in 3D, which went online in a first version of a 3D models download portal known back then as "PARTserver" – and further expanding to a complete professional Parts Management Solution PARTSolutions.

And we don't stop at new business areas: Recently we've been involved intensively with the subject of Building Information Modeling (BIM). This is where we can superbly adapt our decades of proven knowledge and our technology to the BIM and AEC branch. There is change going on in this branch and the need for digital BIM CAD product data is having an impact.

In many areas we were able to maintain our pioneering role also this year. New partnerships, cooperations and sponsoring of young talents help us to be positioned in many areas.

We wish to thank our customers and partners for the successful cooperation and start into our promising anniversary year of 2017.



CADENAS – The Innovation company

Yours

A handwritten signature in black ink that reads "Jürgen Heimbach". The signature is written in a cursive, flowing style.

Jürgen Heimbach
Dipl.-Ing. (FH)
CEO
CADENAS

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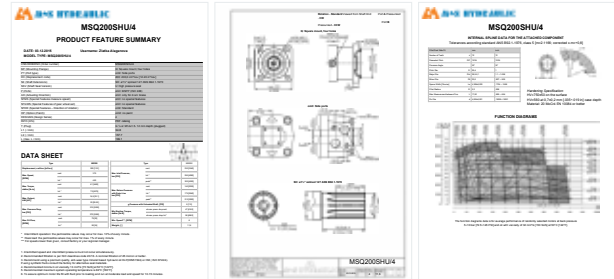
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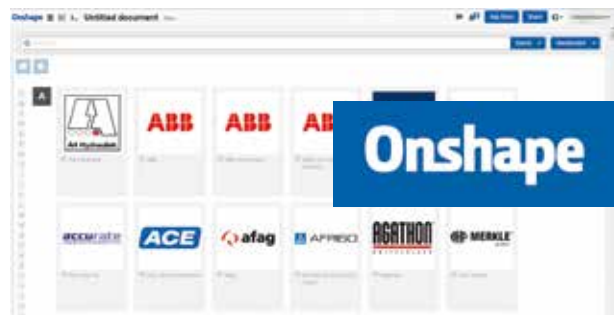
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Empowering the world's BIM community with 3D BIM CAD models by CADENAS 62

Partnership agreement of CADENAS and the BIM Hub - it all starts with an app

OUR YEAR 2016

Events, Exhibitions, Customer Forums

CADENAS at the Motek exhibition

CADENAS helped Afag Automation AG to present their new products at the Motek trade fair in Stuttgart (Germany) from the 10th to the 13th of October 2016. Through the Tradeshow Entertainment Package CADENAS skillfully showed the products to the tech scene.



CADENAS Solutions Forum Italiana

In April, CADENAS Italy held the exclusive Solutions Forum at the Hotel Calzavecchio in Bologna for the seventh time. More than 70 participants from the industries of mechanical and plant engineering as well as electrical engineering were able to find out about trends in the fields of Strategic Parts Management and Electronic Product Catalogs during the numerous lectures.





Customer Forum Esslingen

On the occasion of the relocation of CADENAS in Esslingen, Thomas Lang and his team invited customers from the German region of Baden-Württemberg on the 14th of April 2016. The visitors had the opportunity to see the new office spaces, to get to know the CADENAS products and to get in touch with the team. Existing customers as well as interested purchasers and engineers were able to hear exciting lectures on the Strategic Parts Management PARTSolutions and the Smart Sales Tool, as well as giving suggestions for their own marketing and sales. CEO Jürgen Heimbach was present in person to give a lecture on the innovative marketing of technical products.



Siemens PLM Connection Germany

On June 7th and 9th, Siemens PLM Connection Germany took place. As a partner of SIEMENS PLM, CADENAS presented innovative solutions for the implementation of the PURCHINEERING concept with the Strategic Parts Management PARTSolutions.



CADENAS at the PLM EUROPE 2016

From October 17th to 19th, CADENAS successfully presented itself at PLM EUROPE 2016 - Siemens PLM Connection. The user conference in Berlin is a meeting place for decision-makers, users and service providers of the PLM thematic area.



Industry-Forum 2016

At the 17th Industry-Forum, around 200 international participants gathered in the WWK Arena in Augsburg (Germany) from the sectors of machine and plant engineering as well as electrical engineering in best practice lectures on innovations and trends around the topics of Strategic Parts Management as well as Electronic Product Catalogs and the new topic BIM (Building Information Modeling).



At the annual home match, the Industry-Forum evenings event, the augsburg company was able to show of its skills with various leather-ball attractions. With the slogan "Champions made in Augsburg who knows everybody #jedesau" the tech company showed that they too are first league. The opportunity to take part in the stadiums and to explore the home of the German football team FC Augsburg was especially appreciated.



Impressions, reviews and updates on the next event

» www.industry-forum.biz

keydays 2016

On April 21st and 28th, the keytech customer days were held in Dortmund and Stuttgart (Germany). CADENAS introduced the Geometric Similarity Search GEOsearch at the keydays.



BIM World Munich

At the end of November, CADENAS successfully presented more than 1000 trade visitors at the BIM World Munich the numerous possibilities of BIMcatalogs.net. As an exhibitor, CADENAS informed component manufacturers how BIMcatalogs.net markets their 2D & 3D BIM CAD product data ideally and to make it available in numerous BIM formats such as Autodesk Revit, ARCHICAD, Nemetschek Allplan etc. as well as in various output formats.



Fluid Power & Systems 2016

From April 12th to 14th, CADENAS, together with the British Fluid Association (BFPA), presented itself at Fluid & Power Systems 2016. CADENAS presented its innovative solutions, e.g. the Strategic Parts Management PARTsolutions as well as the Geometric Similarity Search GEOsearch and its eCATALOGsolutions technology.



CADENAS Summer Party 2016



Fotos: Manuel Wolff

This years CADENAS summer festival was exactly the right thing for hot July: two beach volleyball fields attracted CADENAS employees to an exciting tournament in the Fribbe outdoor pool, Augsburg (Germany).



WE SUPPORT...

Engineering newcomer and local activities

7 mal Sieben, Gemeinsam stark für Kinder e. V.

The Duanne Moeser sponsorship of the "7 mal Sieben, Gemeinsam stark für Kinder e. V." has been supporting child and youth welfare services in Augsburg, Hochzoll (Germany) since 2002. Donations are collected regularly with various hands-on activities. At the annual bowling tournament in February, a CADENAS team took part: "We are enthusiastic about the commitment of Duanne Moesers and wanted to make our contribution to it," explains Jürgen Heimbach.



The German software manufacturer from Augsburg went a step further and offered to develop a new website free of charge via the 100% subsidiary CANVAS. Since June, the new website is online and has been redesigned from scratch: the structure has been renewed, simplified and modernized. The color scheme is based on the Augsburg Panther, the former DEL club Duanne Moesers. In addition, the website has responsive design and is optimized for mobile devices. Duanne Moeser is convinced by CANVAS' expertise: "I am very enthusiastic about the work of the marketing agency of CADENAS - our new website and external exhibition shows us in a whole new light and brings out our commitment to the best. Thanks to CADENAS and their in-house agency for this great support," he said.

For the first time, norelem initiated a test run with with CADENAS as the sponsor. This served as preparation for the international competition for the Formula Student. The two-day event took place at the headquarter of norelem in Germany at Markgröningen and on the racetrack in Bopfingen from June 28th-29th in 2016. Students from various study programs designed their own formula racing cars at the international students competition.

Seven teams, along with the SolarCar team from Bochum, who presented their ThyssenKrupp SunRiser, took part in the event. The popularity of the test races was demonstrated by all the teams that showed up from all over Germany like Paderborn, Zwickau and Austria like Graz.

Day 1: Preparation for the static disciplines

On the first day in Markgröningen, the test of the static disciplines awaited the teams. These were divided into three categories: Engineering

Design, Business Plan and Cost Report. The jury consisted of employees,

alumni of the Formula Student as well as sponsors of the company. CADENAS was represented by Thomas Lang, Sales Manager South, as part of the jury.

Whenever teams were not busy giving their presentations, they spent their time otherwise: "At the norelem Race Camp, we had good opportunity to exchange ideas with the other teams", the team of the Formula Student in Weingarten pointed out.

CADENAS supported norelem during the day on site with live reporting and posted impressions and comments in their own group on the 3D CAD models download portal PARTcommunity. In the afternoon, the teams headed for Bopfingen, along with the norelem crew, and prepared for the upcoming test racing that was to take place the next day.

Day 2: High speed on the race track in Bopfingen

On the second day the time had come: In the morning, the dynamic discipline was tested. The teams looked on in suspense and carefully compared their times. The drivers especially got down to it. At the same time, the CADENAS press once again posted pictures and comments live in the group on the 3D CAD models download portal PARTcommunity.

The SolarCar team from the Bochum University tested their vehicle on a separate track section. "We use the racetrack to prepare for the European Solar Challenge. We were able to practice our pit stops with jacking up the car, removing the roof or changing the tyres, and that in the best of weather", they delighted.

One of the highlights of the day was the drive with the ThyssenKrupp SunRiser. Employees of norelem as well as the CADENAS press were invited to take a ride. They documented the drive with a video. The recording gave the viewers the feeling that they were sitting directly in the car and experiencing the drive themselves. The video was also published in the PARTcommunity group as well as on the CADENAS YouTube channel.



Engineering Newcomer 2016



A total of 53 students and pupils from 20 schools and colleges battled in teams or alone this year for the title of Engineering Newcomer. The winners were announced at the norelem fair stand on the Motek in Stuttgart on the 11th of October 2016. The challenge is an opportunity for future engineers, students and pupils to present their abilities and to draw attention to their projects and to themselves. Together with the norelem Normalelemente KG, the Bundesarbeitskreis Fachschule für Technik and a media partner, CADENAS initiated the contest. Attractive prize money and an award can increase career opportunities.

"In its third year now, the challenge is enjoying ever more popularity. We are persuaded that the contest has hit a nerve for upcoming engineers", Jürgen Heimbach, CEO of CADENAS, is happy to say. The participants, such as Andreas Bair, are quite content: "The uncomplicated participation, the great organization as well as the interesting and diversified contributions in the Engineering Newcomer 2016 Group deserve special praise."



1. place

Tobias Mayer, Matthias Metz and Sebastian Huber of the Technical College Munich with the fully-automatic placement line for dental instruments - the "Next Generation Feeding System". The jury awarded the winning team, who worked on the project for four years, 2,000 euros.



2. place

Armin Nocker from HTL Jenbach in Austria was unfortunately not at the awards ceremony personally. He enjoyed receiving, however, his award of 1,000 euros. His GreenBot recycles unusable printouts and waste from 3D printers and supply these as new rolled-up coils to be used again.



3. place

Ulrich Schmid, Philipp Schoch, Timo Schönegg from the Überlingen secondary school, persuaded the jury with the development of an automated drone to search for missing persons. The three boys received 500 euros as their award.



Formula Student

The Formula Student is an international engineering competition in which students from different colleges and universities compete with self-constructed and built racing cars. The Formula Student team, together with the Rennteam Uni Stuttgart e. V., also founded an internal project that focuses on a future-oriented drive concept for the coming years. The association and the students tried to make the processes as efficient as possible. The use of standard and purchased parts is therefore essential for the design as the product can be manufactured more cost-effectively. Because of this, the association turned to CADENAS with a request for PARTsolutions. The software manufacturer from Augsburg immediately gave them PARTsolutions licenses. Firstly, Strategic Parts Management is used only for the racing engine project. Next year, the software solution will also be used for vehicle development.

Bavarian Beachvolleyball Championship

CADENAS, headquartered in Augsburg, has been closely linked to the trendsport beach volleyball as well as the organizer of the Bavarian Beach Volleyball Championship, the DJK Augsburg Hochzoll (Germany). For example, at the annual CADENAS summer festival in the Fribbe pool in Augsburg, a large beach volleyball tournament is held among the company's employees. Jürgen Heimbach, CEO of CADENAS: "I am delighted that CADENAS, one of the world's leading software producers with headquarters in Fuggerstadt, can make an important contribution to the Beachevent of the Year and be the first to be an exclusive sponsor."



„F1inschools“ competition

Last year, CADENAS was able to actively support the team "Chasing Shadows" (new name "alphatec") in the development of a miniature Formula One racing car. In addition to financial and material help, the students of the team "alphatec" have access to the PARTcloud.net portal to convert the CAD models of their vehicle into 3D objects. Here they can preview the new miniature racing car model and download the 3D CAD model. CADENAS is committed to the promotion of young talent, so it is self-evident to the company to participate in the project of the pupils.



INTERNATIONAL

Success from our branches around the world

France | CADENAS France SARL

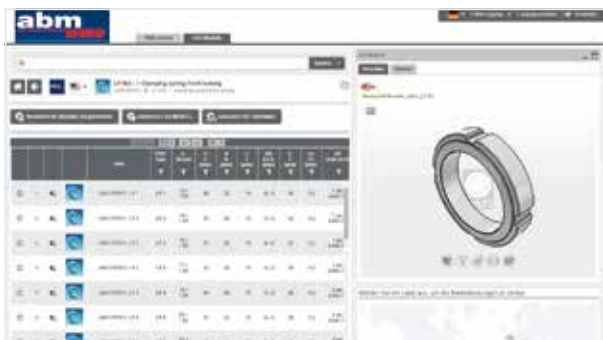


»» www.2222editiondesign.com

22 22 Edition Design



22 22 Edition Design published an Electronic Product Catalog of its furniture and fittings. The aim of the company is to provide architects, decorators and interior designers with a product catalog a new service and help you to market your products. The company, which has only a few stores, uses an Electronic Product Catalog from CADENAS among other marketing activities.



»» <https://abm-sfero.partcommunity.com>

ABM SFERO



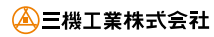
ABM Sfero, a nuts and rings manufacturer for locking and unlocking purposes based in Saint-Etienne (France), strengthens its online presence by publishing its 3D catalog on CADENAS portals. The company's objective is to help engineers to save time by simplifying the design and conception of shafts, housings and assemblies in general with its new 3D catalog.

Japan | CADENAS WEB2CAD INC.



» <https://sanki.partcommunity.com>

Sanki Engineering



Sanki Engineering is a conveyor technology and equipment manufacturer. The conveyor belts are used in a variety of automation lines, as in the food industry. They needed an Interactive Product Configurator that can handle complex lengths and options to deliver CAD data for their products. CADENAS also fulfills complex requirements and optimally adapts to them. The company plans to increase the amount of data in the future.



» <https://horiuchi.partcommunity.com>

HORIUCHI MACHINERY



HORIUCHI MACHINERY is a manufacturer of hydraulic cylinders. With a market share of more than 40% in Japan, their hydraulic cylinders are used in a variety of industries. To date, they have created CAD data for internal use, but they have problems such as delivery constraints or unsupported model numbers. With the CADENAS solution they were able to support both multi CAD formats as well as complete model numbers.

China | CADENAS China Ltd.



» <https://linkable.partcommunity.com>

CIMES 2016



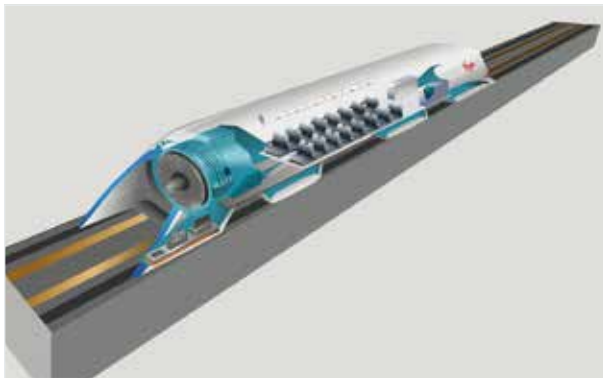
In June, LinkAble presented the software solutions of CADENAS as a strategic partner at the trade fair CIMES. The Electronic Product Catalogs based on the eCATALOG solutions technology as well as other possibilities such as the mobile app, the 3D PDF data sheet, the support for the creation of print catalogs, etc. were also of great interest. In addition, LinkAble introduced the 3D CAD download portal LinkAble PARTcommunity. Especially for the Chinese market, it also scores with a local, Chinese-speaking support team.



USA | CADENAS PARTsolutions LLC



»» www.grcontrols.com



»» www.ryersonhyperloop.ca



Turkey | CADENAS Yazılım Hizmetleri Türkiye



Image source: Serhat Güllüoğlu

»» www.yalova.edu.tr

Grand Rapids Controls



Grand Rapids Controls (GRC) released its new Interactive Product Configurator. The Configurator enables GRC customers to design the required control cable directly on the GRC website. The Interactive Product Configurator reduces design and manufacturing time from weeks to days. Costs are reduced by selecting GRC default options that can be more cost-effective than other components.

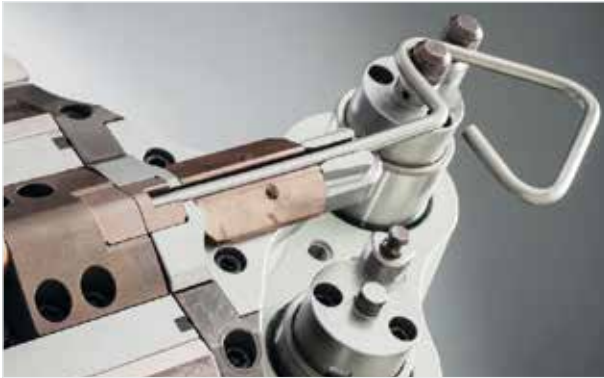
Ryerson Hyperloop Team



The Ryerson's International Hyperloop team used digital 3D components of the AIA National Aerospace Standard (NAS), which were implemented on the basis of CADENAS technology. With these certified components, the team was able to successfully reduce their development time and concentrate more on the core of their award-winning, extendable wheel system.

Yalova Üniversitesi

In April, Akin Terzi, Managing Director of CADENAS Turkey, gave a lecture to over 80 engineering students at the Turkish University of Yalova. He explained the numerous possibilities of the Electronic Product Catalogs as well as the Strategic Parts Management. The numerous practical examples among the students were of great interest. Subsequently, the participants addressed questions to Akin Terzi, to obtain further information for their studies and their entry into the professional world.

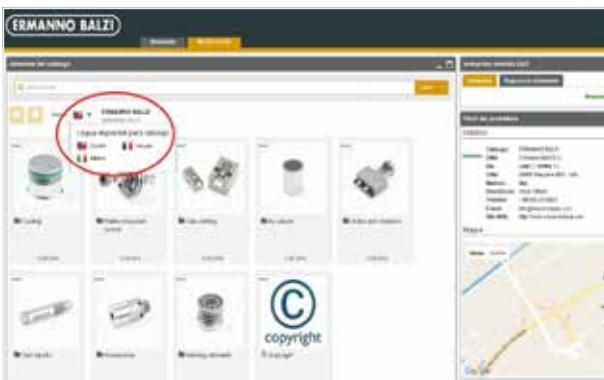


»» www.blmgroup.com

BLM GROUP



BLM Group is an international company for the complete machining process of pipes. The company chose CADENAS's Strategic Parts Management PARTsolutions to support Geometric Similarity Search GEOsearch, including definitions of the rules for the classification of its components and to harmonize the data. The result is a new, complete and common database that is optimized for all components in the archive.

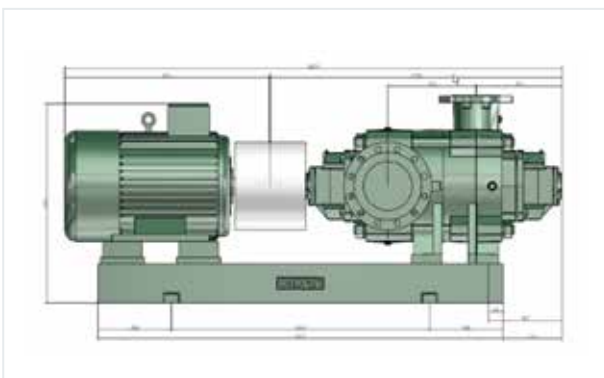


»» www.blmgroup.com

Ermanno Balzi



To increase the awareness level of the company Ermanno Balzi S.r.l.. In the international market, the company decided to provide its product data of the injection molds in different languages. Thanks to the Electronic Product Catalog, which is based on CADENAS eCATALOGsolutions technology, users can download 2D and 3D CAD models in over 100 formats around the clock and around the world.



»» www.caprari.com

Caprari



Caprari offers in its manufacturer catalog the new service of automatic generation of 2D dimensional drawings. The CADENAS eCATALOGsolutions technology provides the implementation and definition of dynamic 2D dimensions in the 3D configuration environment. The creation of 2D dimension drawings allows 2D models to be exported in DWG and DXF format with a custom title block. The 2D dimensional drawing can also be included in the PDF data sheet of the product.

BEST PRACTICE

Strategic Parts Management PARTsolutions



AUTODESK®
FUSION 360™

CADENAS' "parts4cad" now completely integrated in Autodesk Fusion 360

The app "parts4cad" was fully integrated into the standard packages of Autodesk Fusion 360 at the beginning of 2016

At the end of 2014, CADENAS published its app „parts4cad“ for users of the cloud-based design and planning software Autodesk Fusion 360. At the beginning of 2016 the app was completely integrated into the standard packages of Autodesk Fusion 360. With the update at the end of January 2016, this feature was available to all users.

By means of this feature, millions of 3D CAD models from over 400 certified manufacturer catalogs are available to engineers. The desired components can be configured individually and afterward integrated directly into the existing design in Autodesk Fusion 360. Thus "parts4cad" is the first and only app within Autodesk Fusions 360 that provides 3D CAD model data from manufacturer catalogs.

Cloud-based design independent of time and place

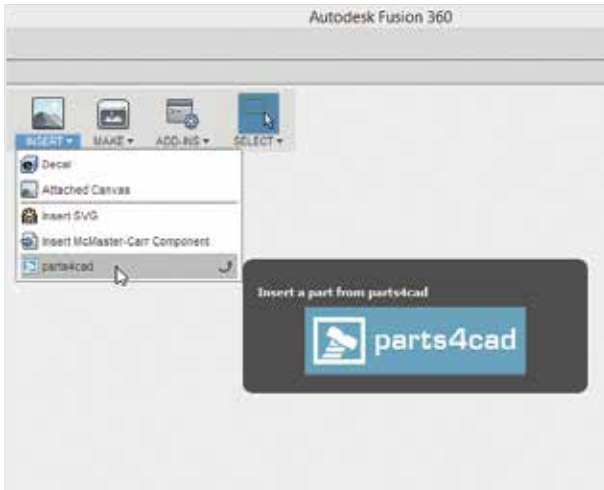
Autodesk Fusion 360 is an all-encompassing cloud-based solution for 3D modeling and the first 3D CAD/CAM tool of its kind that comprises the complete product development process with a single cloud-based tool. Designers and engineers create their product designs in the cloud in 3D and work together with others internationally. The cloud technology behind Autodesk Fusion 360 makes it possible for the user to access with practically any mobile device or internet browser at any time, regardless of their location.



Visit the Autodesk Fusion 360 3D CAD model download portal:

autodesk-fusion.partcommunity.com

THIS IS HOW IT WORKS:



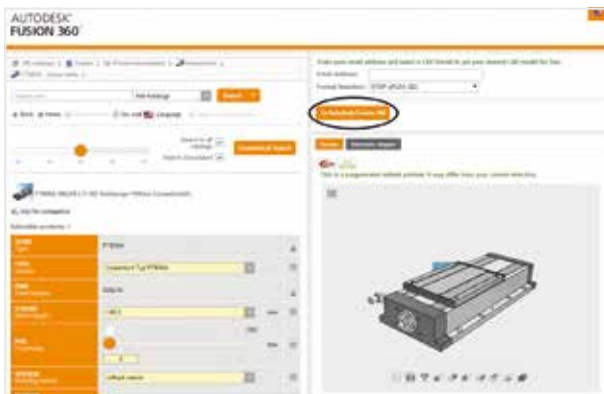
There is already the menu item "parts4cad" Autodesk Fusion 360:



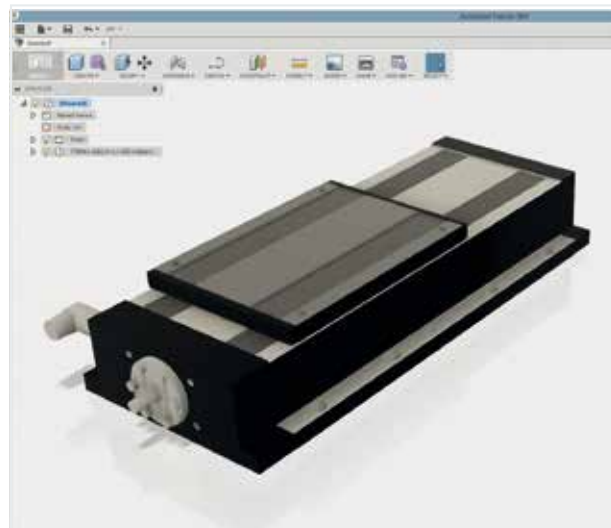
After clicking the menu item, the Autodesk Fusion 360 portal is started in the browser, where required parts can be selected and configured.



The button "To Autodesk Fusion 360" starts the transfer of the parts.



Soon after that the component shows up in the CAD solution Autodesk Fusion 360 and it can then be worked on.



What are the challenges for companies in the industry?



CADENAS survey gives insights into important, strategic topics of the industry for the sectors mechanical engineering, plant engineering and electrical engineering

The current CADENAS Strategic Parts Management PARTsolutions brochure contains results from the last survey, which is of great interest to companies in the mechanical engineering, plant construction and electrical engineering sectors. The brochure shows how specialists

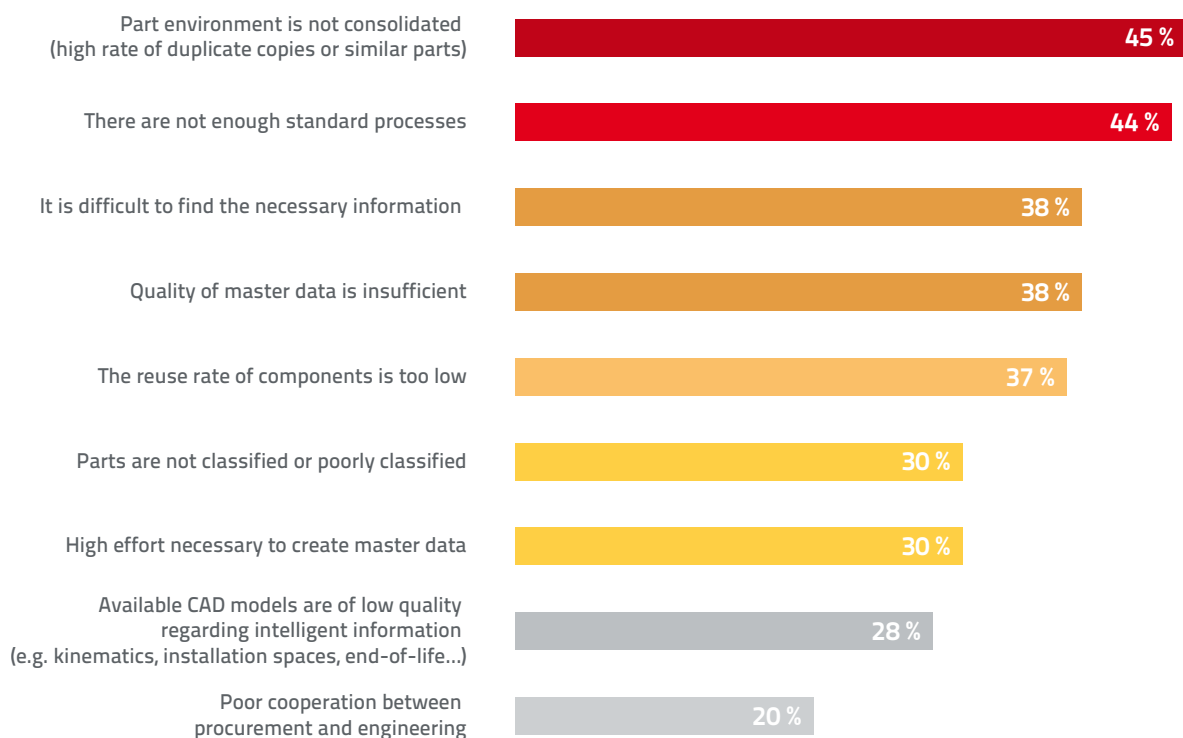
from design, standardization, purchasing and product development can optimize their workflows. The times when the search effort and administrative tasks have dominated the main part of the work and pushed creative constructions into the background are a thing of the past.

Requirements from the industry as a basis for the CADENAS software solution

The survey results on the topic of “Parts Management and Product Development Processes in the Industry” among 70,000 engineers, designers and purchasers of last year show the challenges industrial companies face. This is how the greatest need for action is seen: The weakness is seen,

among other things, in the diversity of parts. In conjunction with the life cycle costs of each individual component, the competitiveness of a company can be permanently impaired.

Where do companies see the most urgent need for action in the product development process?



Everything at the touch of a button in one brochure



The Strategic Parts Management PARTsolutions works at important points, improves structures and facilitates the work of engineers and buyers. The brochure provides an in-depth survey and its results, exciting facts and solutions, such as standardization. A further development to the PURCHINEERING 2.0 took place in PARTsolutions and offers additional functions for a smooth cooperation between purchasing and engineering.



For further information on the Strategic Parts Management PARTsolutions, please refer to the current brochure:

www.cadenas.de/brochure/partsolutions

With PARTsolutions the time for parts creation and search was reduced by 80%



Toyo Seikan drastically reduces the workload for its designers

The Strategic Parts Management PARTsolutions from CADENAS has been supporting the Japanese manufacturer since 2008 as a supplier parts library for the design of production equipment.

Due to the use of numerous supplier parts in Toyo Seikan products, an important factor for their 3D designing was to rapidly obtain accurate 3D CAD data. Another additionally important issue was reducing the man-hour design costs. The "easy to integrate in existing systems" ability has been a key factor in Toyo Seikan's choice for CADENAS.

Search and creation of supplier parts is reduced by 80%

Thanks to Strategic Parts Management PARTsolutions, designers only need a few seconds to find components and to download them. Furthermore, the obtained catalog data already contains manufacturers' original attributes, to which Toyo Seikan can add its self-managed information and metadata: Within the PARTsolutions parts library, it is possible to assign values such as part numbers and inventory information.

In the case of commonly used standard parts Toyo Seikan can assign its own catalog references and simplify the search effort greatly due to the ease of use. Also through the

library management multiple re-creations of the same parts are avoided.

With the introduction of the Strategic Parts Management PARTsolutions Toyo Seikan reduced time and costs drastically: "Compared to conventional approaches, the entire process has been reduced to one-fifth of the time, which greatly reduces the workload of designers," confirmed Mr. Nagata, Assistant Manager of Toyo Seikan.

PARTsolutions at Toyo Seikan



Time for search & creation of supplier parts is **reduced by 80%**



PARTsolutions offers **70%** of the required supplier parts



Seamless integration in existing systems



More information about PARTsolutions at Toyo Seikan can be found in the common success story at:

www.cadenas.de/success-stories/toyo

Parker-Hannifin Receives 2016 Manufacturing Leadership Award

Industrial manufacturer honored for internal optimization with the Strategic Parts Management PARTsolutions by CADENAS

Parker-Hannifin, a global industrial manufacturing leader based in Cleveland Ohio, has been honored by Frost Publishing, receiving a 2016 Manufacturing Leadership Award for their forward-thinking implementation of CADENAS' Strategic Parts Management PARTsolutions. CADENAS are the architects of the platform and key consultants used to implement the initiative.

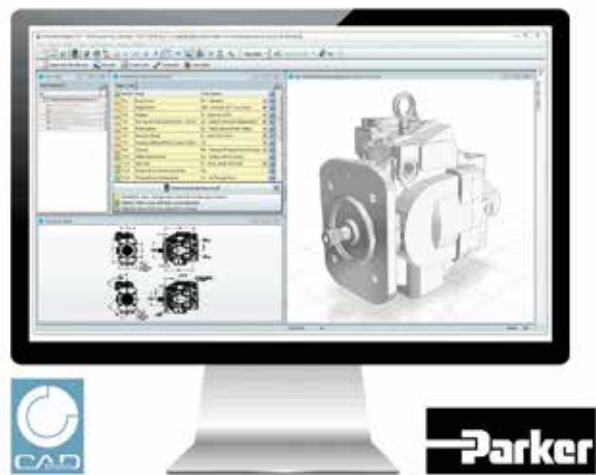
"With this Strategic Parts Management implementation we are helping Parker Hannifin achieve a key organizational goal, reducing engineering time by fostering reuse of components throughout Parker Divisions," says Tim Thomas, CEO of CADENAS PARTsolutions, LLC. "Every time a part is reused, using the Strategic Parts Management PARTsolutions, Parker is saving money and time through the entire product lifecycle and getting Parker products to market faster."

The Parker-Hannifin Strategic Parts Management initiative

With the intent of streamlining the use of 3D parts, Parker teamed up with CADENAS to introduce an enterprise-wide "Strategic Parts Management" project, using a centralized database of 3D parts and data from which engineers can easily find and reuse the component they need. The end goal is to promote divisional and interdivisional re-use of parts as well as give purchasing visibility to enterprise quantities of standard parts.

The two organizations launched a Strategic Parts Management initiative across several Parker divisions, providing visibility and tracking of parts used in Parker designs. The project's payoff is the ability to easily reuse internal components across all Parker divisions, as well as reduced time finding parts and new savings through volume purchase agreements.

Prior to the introduction of PARTsolutions, there was limited ability for Parker's procurement and engineering



department to see which parts were available from other Parker divisions. This made it difficult for purchasing departments to identify volume purchase opportunities. Engineers also had little ability to access engineering data from other divisions, creating silos of duplicate and obsolete data. This created an opportunity for Parker to add part visibility for all divisions, eliminating the proliferation of duplicate parts and local part numbering schemas.

To accomplish this, all divisions of Parker are being brought onto a common Parts Management System using CADENAS technologies. CADENAS serves as the platform to find and re-use common parts with an enterprise part numbering strategy.



More information about the Manufacturing Leadership Award can be found at:

www.mlsummit.com

CADENAS continues to pioneer: First 3D CAD models app and other apps available for Windows 10



On the basis of positive feedback, CADENAS publishes its apps for the Windows 10 operating system

Since 2012 the app “3D CAD Models Engineering” from CADENAS works as a download service for engineers and purchasers as well as a research tool for 3D CAD data. Due to the growing popularity and the increasing number of downloads via Google Play and Apple iTunes, the software company has decided to make the app available for Windows 10 as a mobile and desktop version.

The PARTCommunity 3D CAD Models App offers engineers and purchasers of the mechanical and plant engineering as

well as automotive industries direct access to thousands of components from more than 400 manufacturer-certified catalogs of leading international companies.

“The release of our app 3D CAD models in the Windows Store was very well received. Therefore, it was clear to us that our other apps should be available to Windows 10 users,” explains Jürgen Heimbach, CEO of CADENAS.

Advantages of 3D CAD models app:



Free download of 2D and 3D CAD models



Allows individual configuration of the CAD models by the user



All CAD models are certified by the manufacturers



The CAD models are available in all major CAD formats



For all current CAD systems:
CATIA®, Autodesk® Inventor®,
SolidWorks®, Creo™ Parametric,
NX™, AutoCAD®, Solid Edge®, etc.



3D CAD Models Engineering App

The app helps engineers and purchasers in the mechanical and plant engineering and automotive industries to find the right 3D CAD model in the desired format. The app is based on the eCATALOGsolutions technology from CADENAS. The CAD models are also manufacturer-certified and available in 85 formats for the most common CAD systems, such as Solid Edge®, NX™ and SolidWorks®.



PARTsolutions App

Strategic Parts Management PARTsolutions has been helping long time engineers and purchasers to intelligently find and manage standard parts and purchased parts, and to reduce component fractions, avoid duplicates, and save costs. In order to have PARTsolutions always at hand in meetings, the app of CADENAS offers a variety of different features.



PARTcloud.net App

PARTcloud.net as an app, based on the eCATALOGsolutions technology from CADENAS, helps engineers to simply upload and share the 3D CAD models of their own, designed components with friends and colleagues, as well as to download them. Uploading your own 3D CAD models in STL or STEP format is very easy. Subsequently, the uploaded models are automatically available in numerous other CAD formats.



BIMcatalogs.net App

The app helps architects, engineers and purchasers of the construction industry to find the right 3D BIM CAD model in the desired format. The BIMcatalogs.net app is based on the eCATALOGsolutions technology from CADENAS. The BIM CAD models are available for the most common CAD systems in compatible formats, such as IFC mesh, STEP, STL, COLLAD and 3D PDF.

4,2



The app 3D CAD Models Engineering is among the most popular in the field of 3D CAD manufacturer catalogs. This shows both the installation numbers as well as the numerous, positive evaluations. Because with 4,2 stars, the app can really be seen.



Just awesome! Intuitive and easy to use, almost inexhaustible supply of standard data.



The best known 3D CAD program.



Clear, fast, easy to use.
How I envision a good app.



[...] 3D preview goes flawless, even the generation of previews after adjusting the parameters. CAD Model will be sent by e-mail. Account is free [...]



Franz Binder GmbH reduces design time by 80% with the CADENAS software solution

Introducing the Strategic Parts Management PARTsolutions saves time and results in more efficiency



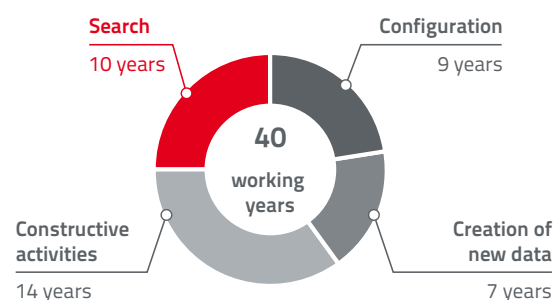
Franz Binder uses standard parts for the development of plastic injection molding tools and systems for the automation of their applications.

A medium plastic injection molding tool consists of about 150 parts and the share of standard parts amounts up to 20%. There are around 500 parts in the automation system and accordingly the share of standard parts is higher. Besides reducing design costs, standard parts restructuring at Franz Binder, lead to a reduction of parts and to a standardization of designs. The company always faced the challenge of finding standard parts from various sources: Websites, CDs and other options were available for this purpose. However, the search was often very time-consuming. If the engineer couldn't find the needed component, he started over again and needed more time for the design.

The time had come for the introduction of a Strategic Parts Management: By introducing PARTsolutions from CADENAS, Franz Binder GmbH now has a completely implemented parts management system. Quickly finding and using standard and supplier-specific parts in the CAD and PLM system Siemens NX, in connection with Teamcenter, was paramount. Franz Binder has succeeded in significantly



reducing the times for search and design: "After introducing PARTsolution, it's clear: Searching and, above all, finding can be easier if you have the right tool," explains Claus Burmeister, Team Leader of Tool Design Engineering at Franz Binder. By using a native CAD format compatible with the respective CAD systems, the company obtains completely detailed models, including "design tree". With PARTsolutions, a time savings of up to 80% when using standard parts is no longer a utopian concept.



» An engineer invests nearly 70% of his time with non-constructive activities – 27% searching, 18% redesigning, 23% configuration! «

Aberdeen Group, Component Supplier Management, März 2002

200 manufacturer certified catalogs in PARTsolutions with eCl@ss information

Intelligent information from the 3D CAD models makes engineering work easier

Frequently within a company material strains are classified according to eCl@ss. These markings help to ensure that the same component is being spoken about by all parties, regardless of which designation the particular department or the respective manufacturer uses.

3D CAD models with eCl@ss classification help with master data management

Strategic Parts Management PARTsolutions offers engineers 200 certified manufacturer catalogs of well-known companies with eCl@ss information: including, among others, AHP, Festo, Rittal, SKF, Würth and Wago. The eCl@ss standards provide users with a good basis for orderly master material, a lower classification effort as well as a classification system that supports interdisciplinary standards. In addition, engineers are provided with the Strategic Parts Management PARTsolutions as a universal search system with all important information available at a glance.

As an authorized eCl@ss IT service provider, CADENAS has been supporting all current eCl@ss versions since the end of 2015. The goal is that engineers with PARTsolutions in combination with a PLM and ERP connection have access to the DIN / EN / ISO standard parts classified according to eCl@ss. Engineers are more likely to opt for products that make inquiries and complex research unnecessary. The only prerequisite is the acquisition of the eCl@ss standard for use in the company.



A price overview of the eCl@ss licenses can be found here:

www.eclasdownload.com/catalog/pub/english/eclass_prices.pdf



Global parts management at SMS group



PARTsolutions from CADENAS allows for all SMS group locations to have central access to the same pieces of information

The SMS group has been using the Strategic Parts Management PARTsolutions from CADENAS since 2006. As a globally operating company, SMS has the target to orient its parts management more internationally and to integrate all SMS companies worldwide with its catalog parts, manufacturers and standards into SAP by 2020. The SMS group, is a group of global players in machinery and plant construction for the steel and nonferrous metals industry. More than 14,000 employees generate global sales of some EUR 3.4 billion.

Central department parts management

There is a central department at the SMS group responsible for all tasks around the topic of "parts management". It provides the designers of the company with, among other things, required manufacturer catalogs and catalog parts for multi CAD capability - for example Creo Parametric, Autodesk Inventor and Auto CAD - using PARTsolutions and update them. Moreover, SMS internal catalog and standard parts are created with their specific requirement as 3D CAD geometries and made available in the parts

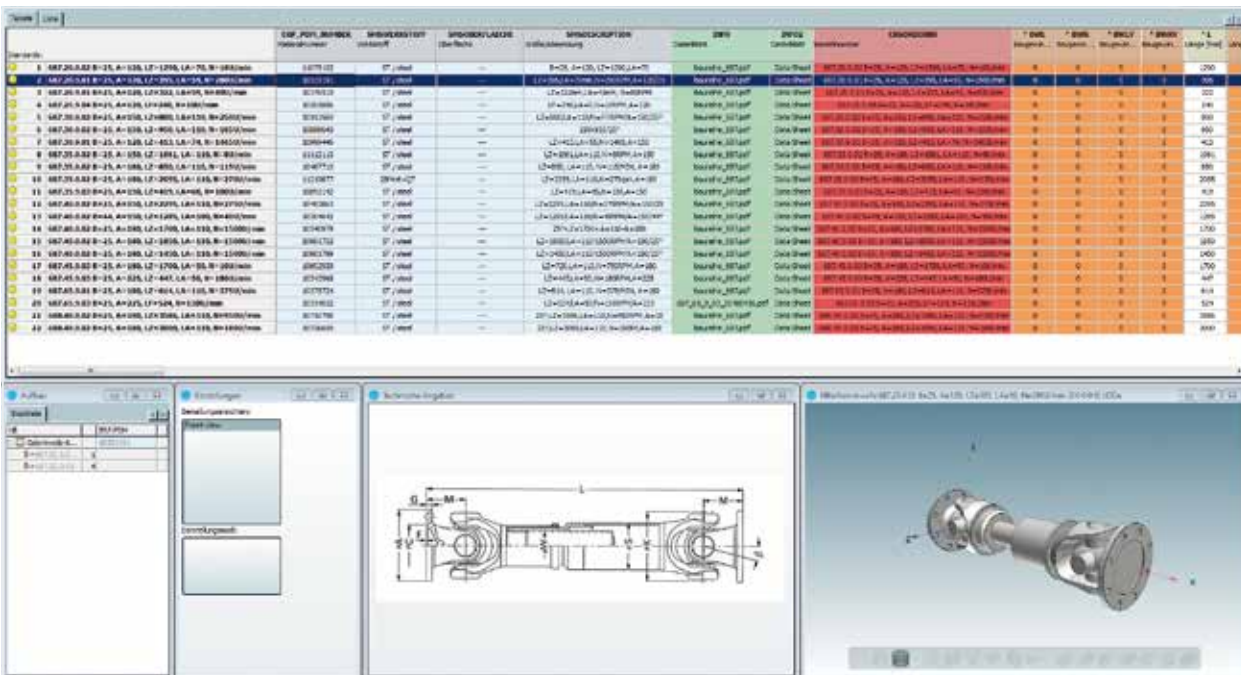
management system from CADENAS. A total of more than 48,000 standard parts and over 43,000 catalog parts are provided.

Central access to all locations for identical parts information

Numerous locations of the SMS group worldwide already access the Strategic Parts Management PARTsolutions. Parts information used to be stored at individual locations and were updated and made available only after hours on end. Parts data of the SMS group have been centrally stored on one server, the PARTapplication, since March 2015. Thus, all locations now have access to the same parts data, which are made available to design engineers much faster. "We are one of the first customers to use the CADENAS web service for the quick distribution of data to distant company locations. We are excited at how well everything works," says Bernd Postaremczak, Head of parts management SMS group.



Overview of the manufacturer catalogs at the Strategic Parts Management PARTSolutions by the SMS group



The engineer gets all important component information at a glance in PARTSolutions

Challenges for parts management in a globally operating company

Especially with the international orientation of parts management, the SMS group currently faces a number of challenges.

“Foreign sites are not to merely be extended workbenches in the future, thus our company has the target of integrating all SMS group companies in SAP by the year 2020. This means a change to the ERP system for all newly integrated locations, which will involve a number of

challenges,” says Bernd Postaremczak, SMS group. “An effective parts management and PARTSolutions from CADENAS supports us optimally.”



More information about PARTSolutions at SMS group you can find in common success story at:

www.cadenas.de/success-stories/sms-group

BEST PRACTICE

Electronic Product Catalog eCATALOGsolutions

M + S Hydraulic relies on CADENAS' eCATALOGsolutions technology & 3D PDF

The first customer from Bulgaria is already using the broad marketing potential of the Electronic Product Catalogs



Find what you need quickly & efficiently

Since September 2015, all components of M+S Hydraulic have been available via the 3D CAD model download portal PARTcommunity. A clearly arranged catalog structure and extensive search features allow portal users to look for 3D CAD models, e.g. with the Geometric Similarity Search GEOsearch or the performant full-test search. Users can look at the components, configure them and download them in a native format into the respective CAD system as well as integrate them into the existing design.

3D PDFs are dynamically generated according to the product configuration

The possibility for 3D PDFs was already available at CADENAS' eCATALOGsolutions technology. To M+S Hydraulic it was important that the complex data in 3D PDF could be generated according to the configuration. Therefore an extensive and sophisticated data sheet was designed: The data sheet shows M+S customers, for instance, technical information about the product such as parameters, dimensions, characteristics of the load and all peculiarities that are assigned to the selected model. The graphics and diagrams are a highlight, which are additionally displayed for some of the M+S Hydraulic product series. The data is collected dynamically according to the corresponding configuration of the user. Automatic calculations and adaptations are also stored in the data sheet.

M+S Hydraulic PLC in Bulgaria is a globally leading manufacturer of hydraulic orbital motors, hydrostatic steering units, hydraulic brakes and accessories. The company offers a wide range of motors and steering units in metric and SAE versions. The ISO 9001:2008-certified manufacturer turned to CADENAS to market their products on a broader and more international basis with the Electronic Product Catalog.



» CADENAS, is one of the leading manufacturers for 3D configurators, Electronic Product Catalogs and online marketing and the only supplier who was able to create a PDF data sheet for us that meets our complex and specific requirements. «

Zlatka Alagenova, Marketing Expert at M+S Hydraulic

M+S HYDRAULIC

MSQ200SHU/4

PRODUCT FEATURE SUMMARY

DATE: 03.12.2015 User name: Zlatka Alagenova

MODEL TYPE: MSQ200SHU/4

MSQ200SHU/4 (Other number)	MSQ200SHU/4
MP (Mounting Type)	D: Square mount, four holes
PT (Port type)	DN: Side ports
SC (Displacement code)	SD: 200 (nominal) [12.20 (in³/rev)]
SE (Shaft Extension)	SH: at 11° (aligned 14° ANS B92.1-1970)
SSV (Shaft Seal Version)	LS: no pressure seal
P (Port)	DN: SSP (ISO 228)
AD (Actuating Direction)	DN: only for direct stroke
SPMS (Special Feature measure speed)	DN: no special features
SPGSD (Special Feature of gear wheel set)	DN: no special features
SPSD (Special Feature - Cavitation of rotation)	DN: Standard
CP (Color P-Part)	DN: no paint
CSGSD (Coating System)	K
RFQ (RFQ)	RFQ rating
T (Type)	LS: 20 M4x1.5 - 12 mm depth (plugged)
L1 (mm)	24.8
L2 (mm)	55.7
L (mm)	80.5

DATA SHEET

Type	Value	Type	Value
Displacement, under load (l/min)	20 (12)	Max. Speed	3000
Max. Speed	3000	Max. Inlet Pressure	210 (20)
MPMS	LS	Max. Pressure	210 (20)
Max. Torque	67 (50)	Max. Back Pressure	100 (10)
Under 20 (l/min)	72 (52)	Max. Flow	100 (10)
Max. Output	20 (12)	Max. Pressure Drop	10 (1)
Max. Flow	20 (12)	Max. Inlet Temp.	50 (122)
Max. Pressure Drop	10 (1)	Max. Inlet Temp. (max)	80 (176)
Max. Inlet Temp.	50 (122)	Max. Inlet Temp. (max)	80 (176)
Max. Inlet Temp. (max)	80 (176)	Max. Inlet Temp. (max)	80 (176)

1. Intermittent operation: the permissible values may occur for max. 10% of every minute.
 2. Peak load: the permissible values may occur for max. 1% of every minute.
 3. For speeds lower than given, consult factory or your regional manager.

1. Intermittent speed and intermittent pressure must not occur simultaneously.
 2. Recommended fluid is per ISO standard case 2115. A normal viscosity of 32 cSt at 50°C is recommended using a premium quality, anti-wear type mineral based hydraulic oil (HYDONS 104) or HM (ISO EN 424).
 3. Using synthetic fluid instead of factory recommended material.
 4. Recommended maximum oil viscosity: 13 mPa·s (13 cSt) at 50°C (122°F).
 5. Recommended maximum system operating temperature: 80°C (176°F).
 6. To assure optimum motor life fill with fluid prior to loading and run at moderate load speed for 10-15 minutes.

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Rotation - Standard Viewed from Shaft End Port A Pressurized CW

Port B

Pressure: 210 bar

D: Square mount, four holes

DN: at 11° (aligned 14° ANS B92.1-1970)

MSQ200SHU/4

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M+S HYDRAULIC

MSQ200SHU/4

INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Tolerances according standard ANS B92.1-1970, class 5 [m=2.1166; corrected x.m=+0.8]

Parameter	min	max
External Pitch	11.12	12
External Pitch	12.0	12.0
Pressure Angle	30°	30°
Module	2.25	2.25
Major Dia.	33.243	33.243
Minor Dia.	28.25	28.25
Face Width	10.0	10.0
Face Width (External)	10.0	10.0
Face Width	10.0	10.0
Face Width (External)	10.0	10.0
Face Width	10.0	10.0
Face Width (External)	10.0	10.0
Face Width	10.0	10.0
Face Width (External)	10.0	10.0

Hardening Specification:
 HV-750(30) on the surface
 HV-650 at 0.7x0.2 mm [0.035"-0.19 in] case depth
 Material: 20 MoCr4 EN 10084 or better

FUNCTION DIAGRAMS

The function diagrams data is for average performance of randomly selected motors at back pressure 0-10 bar (0-145 PSI) and at oil viscosity of 32 cSt (600 SUS) at 50°C (122°F).

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Pioneer from Bulgaria

Jürgen Heimbach, CEO of CADENAS, is very pleased about this development: "M+S Hydraulic realized its potential and utilized it. The Electronic Product Catalog combined with using the 3D CAD download portal PARTCommunity, are excellent prerequisites for the company to successfully market their products. Moreover we are very pleased to welcome M+S Hydraulic as our first customer from Bulgaria. Also in the future we would like to get more prospective customers in Eastern Europe enthusiastic about our eCATALOGsolutions technology."



You can find M+S Hydraulic's 3D CAD download portal at:

<http://ms-hydraulic.partcommunity.com>



“We consider a 3D CAD catalog as a step towards Industry 4.0”

Native CAD data from CADENAS product catalog as innovation at Pepperl+Fuchs

The new Electronic Product Catalog of Pepperl+Fuchs, based on eCATALOGsolutions technology, is online.

The company was founded in 1945 and today it is a leading manufacturer of industrial sensors operating inductive, capacitive, ultrasonic and photoelectric as well as components and technologies for process automation. At <http://pepperl-fuchs.partcommunity.com> engineers have access to currently 5,800 CAD components from Pepperl+Fuchs. Also 10 configurable rotary encoder families in over 400,000 variations are possible.

Currently the company's CAD catalog is available bilingual in the corporate design of Pepperl+Fuchs.

Additionally, a wide range of search features is available to engineers and purchasers: The 2D sketch search as well as the Geometric Similarity Search GEOsearch and the high-performance full-text search are useful and quick helpers for this purpose. Moreover, customers can easily obtain further information from Pepperl+Fuchs with an RFP and via the 3D PDF data sheet.

An overview of the Pepperl+Fuchs catalog



bilingual catalog (DE/EN)



currently **5,800** CAD components



10 configurable rotary encoder families with **400,000** variations

» CADENAS is always looking for customer solutions. You never have to be afraid of a standstill when working together with the software developer from Augsburg. That creates trust! «

Markus Bamberg, Head of Product Information Management at Pepperl+Fuchs

The initial situation

In the course of digitization, heading towards Industry 4.0, Pepperl+Fuchs now makes its CAD data available online. In doing so the company had special requirements regarding the Electronic Product Catalog: On the one hand, a form variety of native data formats had to be ensured. Many different output formats for print, internet, price lists or catalogs should be generated from one single data source. On the other hand, a precise and detailed display of CAD models is necessary for the customers. Also a preview of the product and integrating it directly into the respective CAD program had to be made possible. Moreover, it was important to Pepperl+Fuchs to offer a central product portal.

Import existing STEP and BMEcat data into the 3D CAD product catalog

Already existing data and models were able to be imported as STEP and BMEcat data, so that no costly new installations were necessary. Several product families were newly created so that these are configurable. Soon Pepperl+Fuchs products are going to be extended with 10 rotary encoder families which can also be completely modeled and configured.



Fruitful cooperation beyond the project

The cooperation between Pepperl+Fuchs and CADENAS was so extremely good, that Markus Bamberg held a best practice presentation about it at this year's Industry-Forum. He especially praised the company, as the project management and the holistic advice helped to realize the project according to the specific requirements.

Markus Bamberg explained that they chose CADENAS, since the company stands for development and innovation: "CADENAS is always looking for customer solutions. You never have to be afraid of a standstill when working together with the software developer from Augsburg. That creates trust!", Bamberg explains. Pepperl+Fuchs puts special emphasis on customer service and with the digital 3D CAD catalog, they hope to extend the reach, generate new leads and develop further technology – all in all a first step towards Industry 4.0. Additionally, a deep integration of the Electronic Product Catalog is going to take place on the company website.



You can find Pepperl+Fuchs 3D CAD download portal at:

<https://pepperl-fuchs.partcommunity.com>



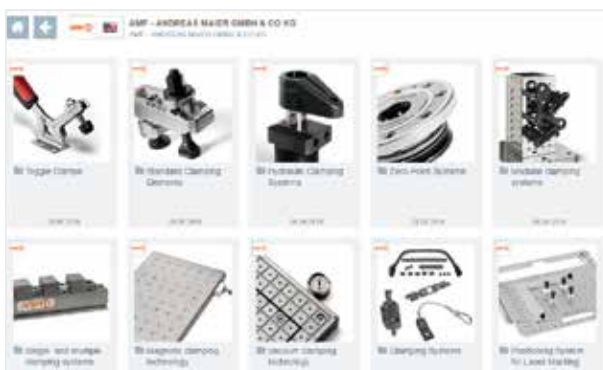
Innovations and features 2016 of the 3D CAD models download portal PARTcommunity

Improved overview, responsive design and even easier to find engineering data

CADENAS has introduced the new version of their 3D CAD download portal PARTcommunity with numerous innovative features and improvements as well as the global innovation "Quick Download". At www.partcommunity.com 3D CAD models from more than 400 manufacturer catalogs are available for engineers to download for free.

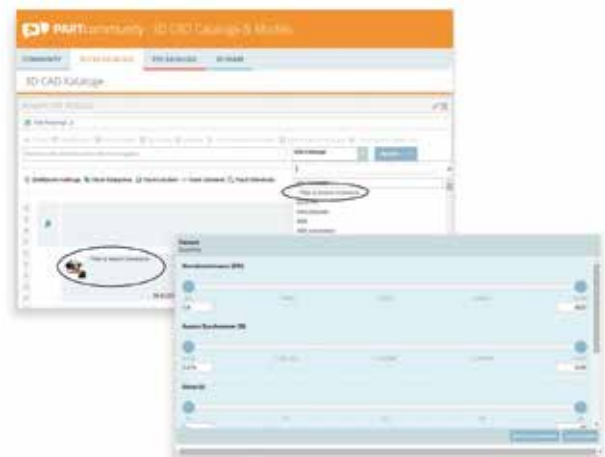
Ideal Usability

For instance, the look & feel of the portal has been further improved. With bigger tiles and images of the 3D CAD models, PARTcommunity users obtain a bigger overview and the usability is simplified.



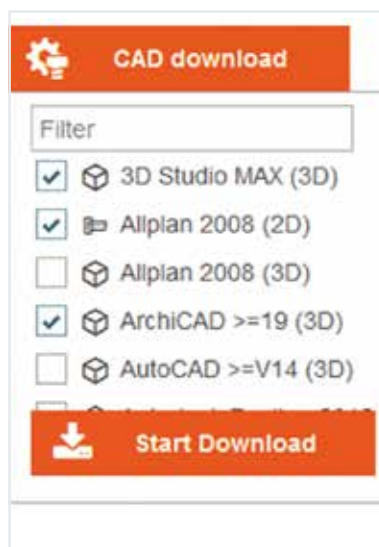
Expansion of the filter assistant to include pitch circle and inner diameter

With the function "Filter & Search Assistant", the 3D CAD models download portal PARTcommunity gives engineers the possibility to attain suitable 3D engineering data more quickly and targeted. Frequently searched for standard and purchased parts can be found in an uncomplicated and effective way by means of the filter assistant. This assistant is being continuously expanded. Engineers currently have the possibility to include the pitch circle and inner diameter of a component in their search.



Revolution through "Quick Download"

As of now, the new PARTcommunity version offers a faster download of CAD models. Within a dialog field, users can start the download process with only a few clicks, which used to require several steps: Registration process, simultaneous download of several CAD formats, faster selection of the CAD formats, providing a 3D PDF data sheet and more simplified, quicker download in a compact ZIP format. Engineers profit from a comfortable 3D CAD download and save precious time, which in turn accelerates the design process.



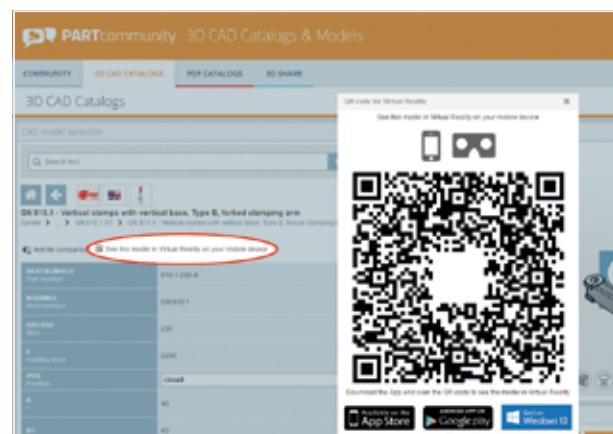
Ideal layout due to responsive design

The layout of PARTcommunity automatically adjusts to the user's desktop width. This means due to responsive design depending on the display size and terminal device, the user gets the best possible view: The windows in a wide screen are automatically displayed side by side and, in case of a narrow screen, under one another.

Already in the former PARTcommunity version, the layout of the 3D CAD download portal can be designed according to individual needs. This is further extended in the new version: All Google fonts at <https://fonts.google.com> can now additionally be used.

QR codes for easier mobile use

Another highlight of PARTcommunity are the new QR codes, which the component manufacturer can store for each individual part. Users of mobile device thus have the possibility to scan QR codes by means of the CADENAS' 3D CAD Models Engineering App, and the respective part is immediately shown on their smartphone or tablet.



Availability of 3D CAD models at the respective subsidiaries

When selecting suitable engineering data, users can display the subsidiaries and the manufacturer representatives to make direct contact faster. Clicking the country on the map causes the corresponding address to appear. The country of the subsidiary in the address area can be changed via the drop down menu.



The 3D CAD download portal PARTcommunity can be found at:

www.partcommunity.com



PARTcloud.net Weekly Challenge 2017

A year of continuous new chances for success

CADENAS is celebrating its 25th anniversary! Every week Amazon gift vouchers worth 25 EUR are waiting for you!

Every week you have the opportunity to be at the front of a new challenge: Show us and the entire PARTcloud.net community your funny, creative, unusual or useful ideas for the current topic.

Was do you have to do?

- Login with your PARTcommunity account at www.partcloud.net.
- Join the group to stay up to date and get the latest info about the challenges.
- Read the weekly task and get started on your creation

How are the winners determined?

Every contribution that is posted before sunday 12 p.m. (CET) is part of the evaluation. The winner of the weekly challenge is elected on the following Monday.

The winner will be contacted by email through the address they entered into their PARTcommunity account. Those who cannot be reached by the provided email will forfeit their win.

Period of Participation

The PARTcloud.net weekly Challenge 2017 runs from 01.01.2017 - 31.12.2017. Tip: check the group regularly to get updates about the latest tasks.

Who is allowed to take part?

Eligible participants are those who are a PARTcommunity user. By uploading, you are agreeing to our conditions of participation.



Join the PARTcommunity group:

<http://b2b.partcommunity.com/community/group/803/partcloud-net-weekly-challenge-2>



Manufacturer catalogs based on CADENAS PARTcommunity technology are available directly in TopSolid

Users of TopSolid will be able to access millions of standardized components and suppliers - without changing the system

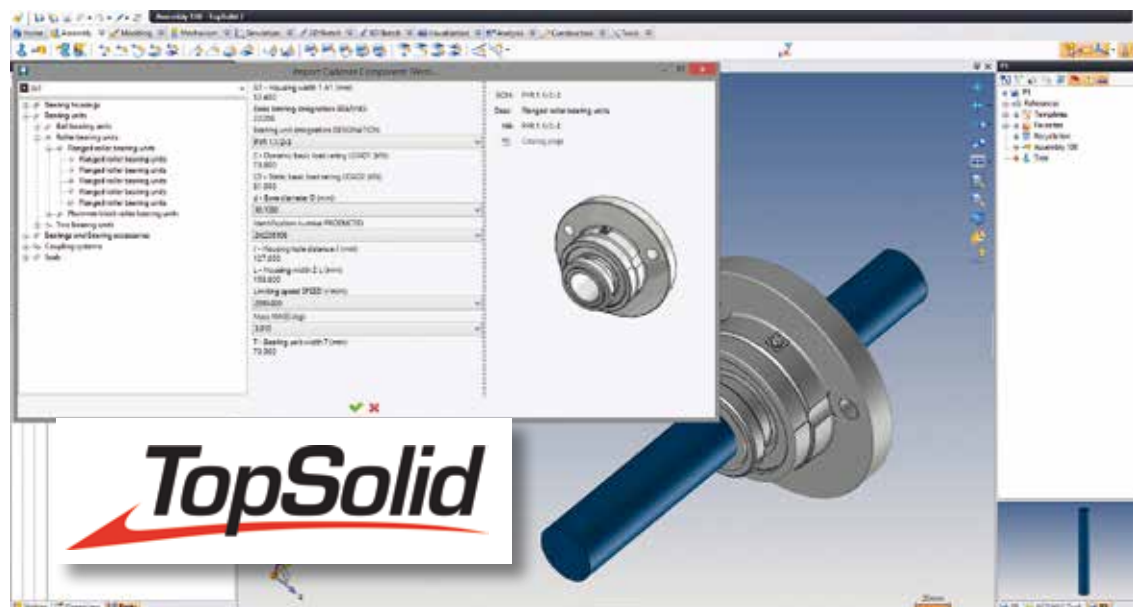
The direct connection between CADENAS component libraries and the TopSolid interface will enable companies to rapidly optimize the design of their products by reducing the time spent searching for standard components.

This new integration benefits companies increasingly looking to reduce the time to market of their products. By providing excellent-quality 3D CAD models, approved and certified by their suppliers, directly into TopSolid via a web service, CADENAS and Missler Software allow designers to produce their projects quicker.

This means that customers will be able to retrieve 3D CAD models of products from the library, with their metadata and bill of material, and automatically integrate them into the TopSolid PDM tool.

The manufacturer catalogs of CADENAS PARTcommunity are available directly in TopSolid from version 7.10.

“We have worked with CADENAS for many years, and our customers were asking for direct access to component libraries in TopSolid. It is a pleasure to announce that this is now available,” said Dominique Laffret, VP Strategic Partnerships at Missler Software.



» This partnership fits in perfectly with our goal of helping designers from around the globe create their CAD projects more quickly and efficiently. The direct interface in TopSolid takes things a step further. «

Is your intellectual property protected against counterfeiting?



Why 3D CAD manufacturer catalogs by CADENAS can help to protect your products against piracy

Product piracy is becoming an increasingly bigger problem for many industrial companies as they are not protecting their intellectual property well enough and criminals are seeing the profits to be gained. "Criminals are increasingly turning towards counterfeiting from other crimes because the profits are better and the jail terms are shorter," explained Ian Blackman, technical manager at the International Institute of Obsolescence Management (IIOM) in an article for Eureka Magazine.

A counterfeit product cannot live up to the same expectations as a real product. When it fails, the consequences can be severe. A loss of image, customers and profits are just the start for the manufacturers who have suffered at the hands of being copied. Above all else though, the safety risks for the consumers are extreme for example think of a car with cheap, low quality brake pads. This makes tackling the problem of product piracy a top priority for many component manufacturers.

What not to do

Many companies try to protect themselves by offering no digital product data, but offering your intellectual property online is only a risk when all of your manufacturing data with feature control symbols and tolerance levels along with all confidential data is available for anyone to download. However, on the other hand many manufacturers are going to the other extreme of not sharing information. They may for example provide only simple 3D contour models that just show the surface of a product. This is a very overcautious approach, as engineers need to see design specifications before they are willing to integrate components into their designs. This means that these companies are preventing themselves from reaching their full sales potential.

eCATALOGsolutions – Enough to be useful, but not to be copied

The best solution is in the middle says the Goldilocks principle. According to the British fairytale when the young Goldilocks gets lost in the woods and stumbles across a house with three bowls of porridge she finds one too hot, the other too cold, but the bowl in the middle is just the right temperature. “We only show enough information to be useful, but not enough to be copied,” explains Jürgen Heimbach, CEO of CADENAS. “Our 3D CAD models in our Electronic Product Catalogs give the engineers and designers all the information they need to make a qualified decision about which components to choose. Materials, kinematics, mounting geometry are just some of the available information that cannot be seen in 3D contour models but are still needed by engineers.”

»» We only show enough information to be useful, but not enough to be copied. ««

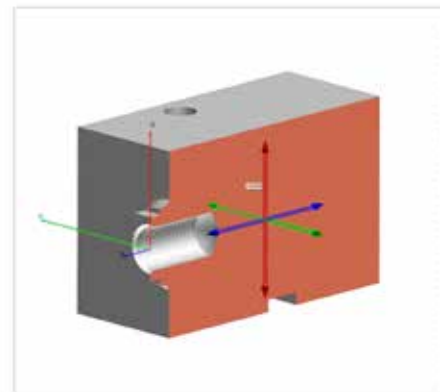
Jürgen Heimbach, CEO at CADENAS

Engineers are satisfied and receive all the necessary data with an eCATALOGsolutions manufacturing catalog, but what about the manufacturer’s intellectual property (IP)? “We don’t share any important IP information in the model. The manufacturers’ IP is our top priority, along with getting the engineers the information they need. Before any content is put on our site it is approved and certified by the manufacturer,” explains Colin Johnson, CADENAS UK in an exclusive interview with Eureka Magazine.



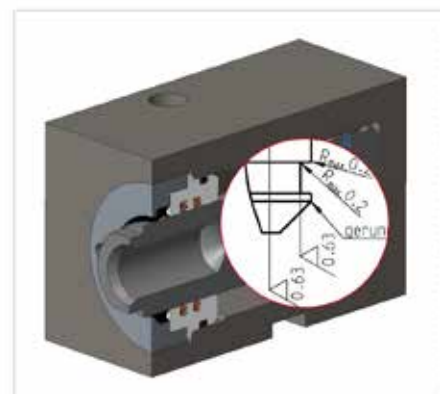
Find out more about how to protect your company from product piracy at:

www.cadenas.de/erfolge-2016/eureka-magazin



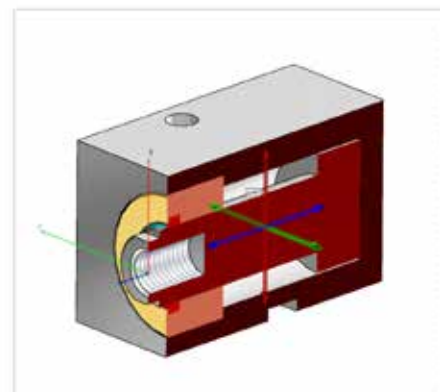
CONTURE ENVELOPE MODEL

- ⊖ Non-intelligent
- ⊖ No kinematics
- ⊖ Useless for Industry 4.0 or other processes



CAD MODEL WITH INTELLECTUAL PROPERTY

- ⊖ Includes all intellectual property
- ⊖ Easy for competitors to copy



eCATALOGsolutions
CADENAS
ENGINEERING
DATA MODEL

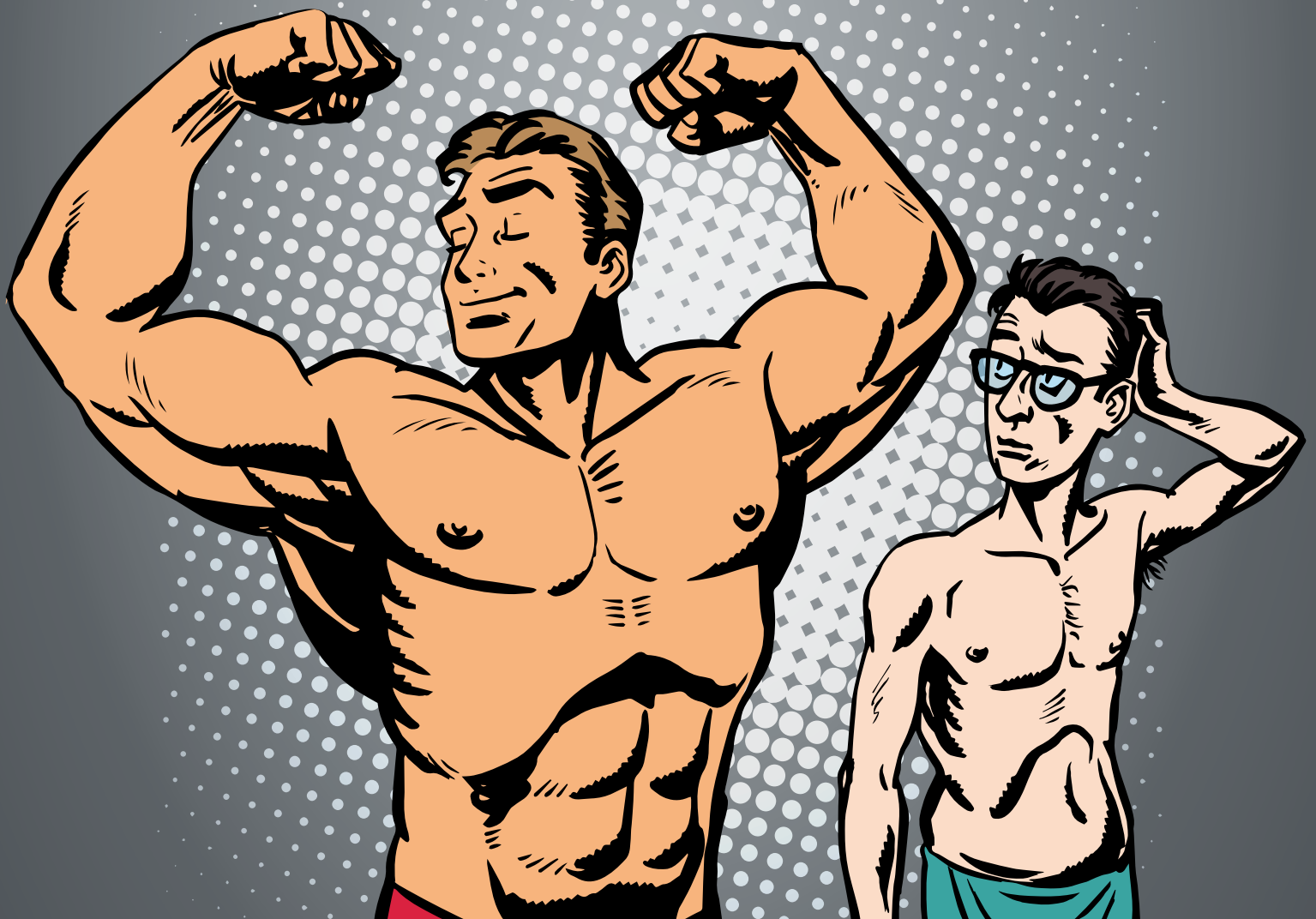
- ⊕ All necessary kinematics, thread & function information

212 million downloads on PARTcommunity: Our market admirers are astonished!

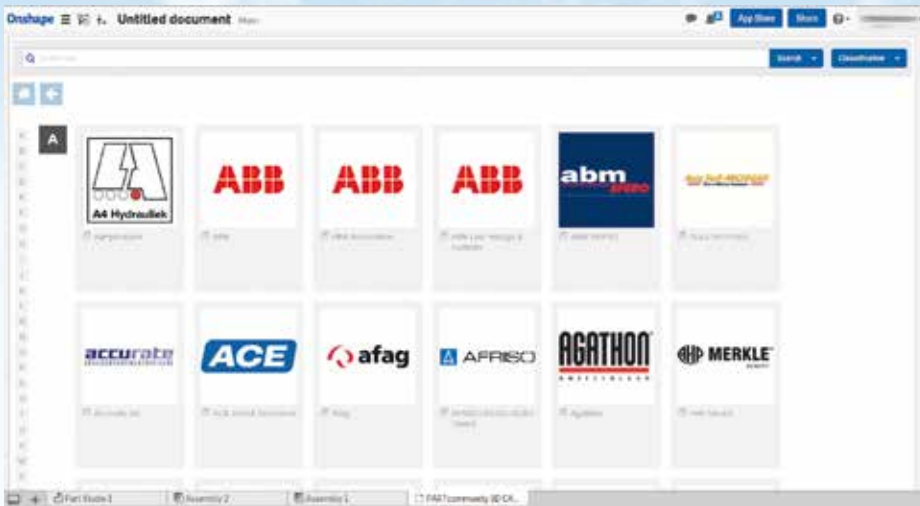
PARTcommunity sets new standards and for the first time achieved 20 million CAD model downloads in a month

Since the beginning of the year 2016, a rapid increase of the monthly CAD models downloads was recorded, which was not to slow down. The number of downloads in March stood at over 23,5 million leaving the yearly total at 212 million downloads – tendency still rising! Engineers and constructors can download 3D CAD components and import them in their native format to suit their CAD System needs worldwide, round the clock. Currently there are over 400 manufacturer CAD product catalogs ready for download. Moreover, the portal offers extensive search features: In every initial situation the 3D CAD model

download portal PARTcommunity always finds the suitable components, regardless of whether you would like to draw a simple sketch of the product or use the Geometrical Similarity Search GEOsearch on the basis of an existing component. Thus PARTcommunity is one of the daily tools of millions of engineers worldwide. The Electronic Product Catalog is ideal for marketing technical products successfully and to a broad international clientele. The advantage for component manufacturers is obvious: Almost 87% of downloaded CAD models lead to purchased products later.



CADENAS partners with Onshape, the first full-cloud professional 3D CAD system



Software specialist now offers Onshape users access to manufacturer catalogs

Engineers, designers and builders can now access over 400 3D CAD manufacturer catalogs for free from directly within Onshape. In 2016, CAD users have imported more than 212 million 3D CAD models from the CADENAS 3D CAD models download portal PARTcommunity.

CAD users can select their desired part models directly in Onshape, and integrate them into their design within an Onshape assembly. Access to CADENAS 3D CAD manufacturer catalogs is enabled through the deep integration of the 3D CAD download portal PARTcommunity by CADENAS.

"As an innovation company, CADENAS is constantly striving to incorporate new approaches and technologies into our products," says Walter Leder, COO of CADENAS. "We love to cooperate with companies that revolutionize the market and with Onshape we have the perfect partner."

"We're delighted to integrate CADENAS parts into Onshape and give our customers millions of more choices of parts and components when designing their products,"

says Darren Henry, Onshape's Director of Marketing. "Onshape is all about speeding up the design process and we're confident our community will value the additional time savings from having instant access to these models." Onshape, which runs in a web browser or mobile app (Android and iOS), is especially designed for teams. It is the first professional 3D CAD system to enable multiple people to simultaneously work on the same model.

If users already have the Onshape app, they just have to go through it: In their documents is an own tab where they get access to 3D CAD manufacturer catalogs by CADENAS. Users, who don't have Onshape app, firstly download the app.



You can download the Onshape app at:

<https://appstore.onshape.com>

CADENAS proves its green thumb: VégéCAD as the first assistant for landscape design



The software developer doesn't only make product catalogs for technical components

VégéCAD® If you think of CAD models trees, flowers or plants in general don't directly come to mind. But for this lively and colorful area, CADENAS has developed an assistant for landscape design for the two French tree nurseries, Minier and LEPAGE. Developed specifically for architects, landscape architects, planning offices and local authorities, VégéCAD is used every day by professionals in their projects. As a result, employees have more time for their projects and more opportunities for advising their customers.

Much more than a plant library

In addition to 2D CAD models, VégéCAD offers various criteria for plant selection. The user selects, for example, the usage form, the color of the leaves and flowers, the type of exposure and the type of the soil, the size of the plant, the stability, etc. After the selection of the plants in VégéCAD, the assistant uses the preset plan of the plant to set the number of plants needed in relation to the surface with corresponding symbols, these are then exported as CAD data.

Export attributes in CAD

In order to further expand the solution, the two nurseries were interested in offering the highest degree of flexibility. This allows the user to select which of the individual CAD attributes they want to export, such as exposure, flowering, size, soil type, foliage, etc.

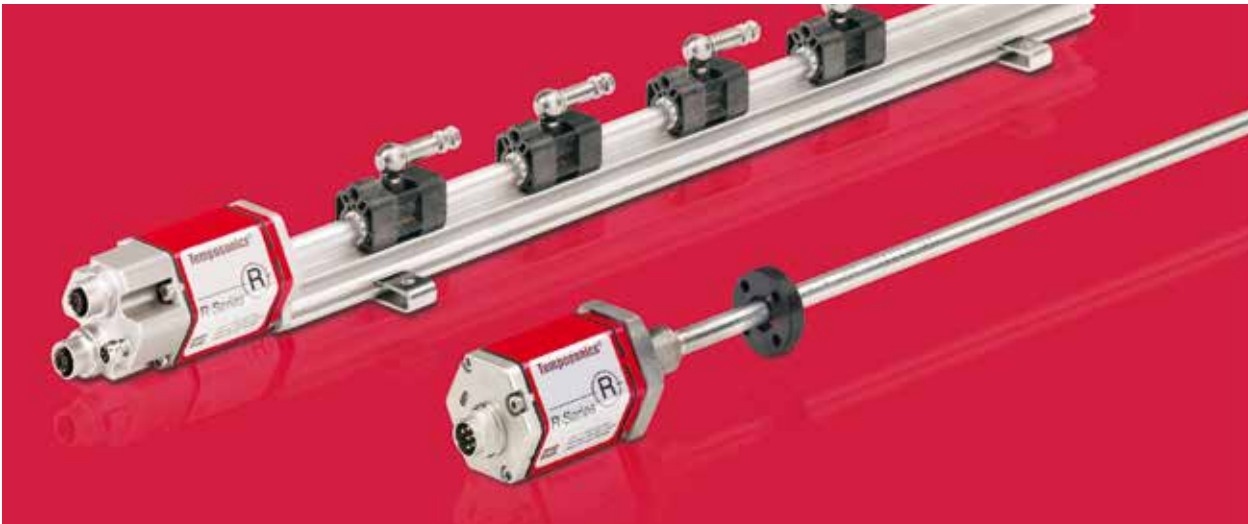
"This development of the VégéCAD library is part of our commitment to expanding our business to include companies dedicated to the design of landscaping," said Pascal Bottet, Director of the French branch. "We are excited about the partnership between the tree nurseries, LEPAGE, Minier and CADENAS as we help a new group of users with their daily work with the use of CAD models."



For a video presentation of VégéCAD visit:

www.vegecad.com

Product catalog of MTS Sensors allows download of intelligent 3D CAD models for sensors



The innovative MTS Sensors Electronic Product Catalog, with plenty of useful features, is now available to engineers and purchasers worldwide



The linear position and liquid level sensors by MTS Sensors are available for download as native data in more than 100 different common CAD system file formats and can be directly integrated into the customer's

procurement process with the Strategic Parts Management PARTsolutions. By using an Electronic Product Catalog, MTS Sensors is equipped for industry 4.0. CADENAS provides the necessary intelligent product data with its eCATALOGsolutions technology. The product catalog is available offline as well as via the 3D CAD models Download portal PARTcommunity online. The catalog is also integrated into the MTS website.

An Electronic Product Catalog is a great help for the customers, since they can comfortably search for an optimal sensor solution and use it directly. Engineers and purchasers get a wide range of search and comparing features: The 2D sketch search, the Geometric Similarity Search GEOsearch as well as the high performance full-text search. Moreover, with the RFP customers can get a 3D PDF data sheet of the configured sensors and other information in a

convenient way. Also, the intelligent 3D CAD models are so called Smart Parts: Engineers and purchasers get additional information about the components, like dimensioning and further features. Thus the selection is uncomplicated for the customer and doesn't require time-consuming inquiries to MTS Sensors.

"CADENAS supported us excellently and we are very glad that our customers and sales processes now profit from our new Electronic Product Catalog. The biggest benefits are that it is convenient, saves time and reduces errors," Moira Lise, Marketing & Communications Manager at MTS Sensors, concluded.



MTS Sensors' 3D CAD download portal can be found at:

<https://mts.partcommunity.com>

“Provide 3D CAD data as uncomplicated as possible”



Simply better.

BESSEY Tool made a conscious decision for CADENAS eCATALOGsolutions technology and extended access to its products

Founded as a bright steel drawing plant in Stuttgart in 1889, the company has continuously expanded the range of products it offers and is situated in Bietigheim-Bissingen. Today, with some 1200 products, BESSEY Tool is among the largest clamping and cutting tool manufacturers in the world, with a presence in over 100 countries.

Since the beginning of 2016, the company has been offering engineers and purchasers engineering data via an Electronic Product Catalog of the eCATALOGsolutions technology by CADENAS.

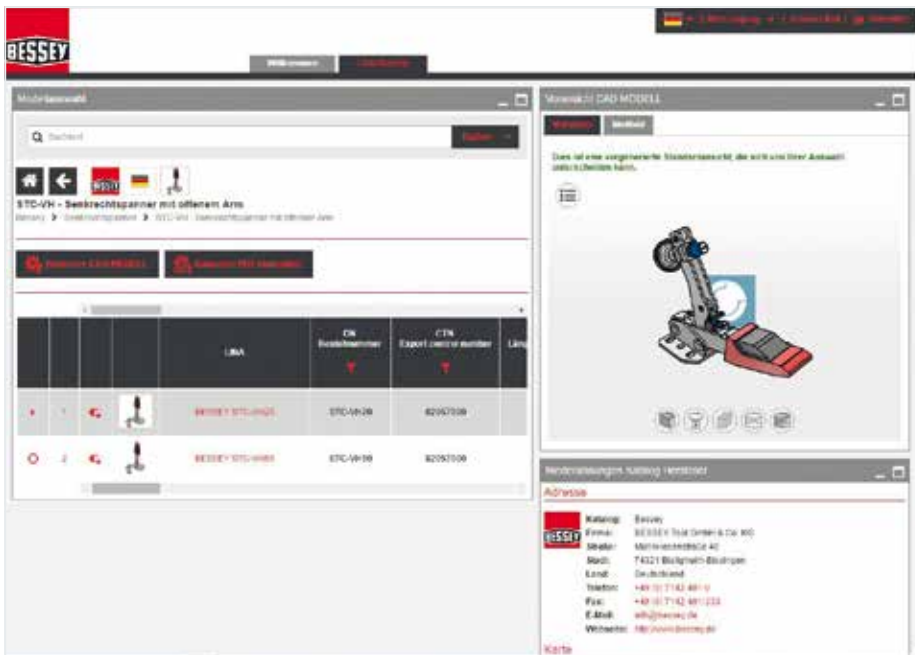
Provide 3D CAD data in an uncomplicated way

Cooperation with CADENAS was a conscious decision from BESSEY Tool: “Through contact with different design offices

and departments of industrial companies, our attention was drawn to CADENAS and the 3D CAD model download portal PARTcommunity,” Rainer Steinle, Product Marketing Manager at BESSEY Tool explains.

“Decisive reasons for choosing CADENAS were the high reach of our 3D CAD data in our strategic business areas and worldwide contact to potential new customers. To us an Electronic Product Catalog, in connection with the 3D CAD model download portal PARTcommunity, is the perfect possibility to provide our international target group with our products and design data in the most uncomplicated way.”

At <http://bessey.partcommunity.com> customers get direct access to the Electronic Product Catalog based on CADENAS' eCATALOGsolutions technology. The catalog



contains, to name a few: the product lines horizontal toggle-, vertical toggle- and push/pull clamps. With these, work pieces of varying thickness can be clamped with almost constant clamping force and without manually changing the pressing screw position.

More service for customers of BESSEY Tool

In the Electronic Product Catalog, engineers and purchasers find all technical information such as 2D drawings and 3D models of the components. Moreover, portal users can look for 3D CAD models by means of the clearly arranged catalog structure with various search features, e.g. the Geometric Similarity Search GEOsearch or the performant full-text search. It is possible to view the components,

configure them, download them in a native format of all current CAD systems, such as Solid Edge® or AutoCAD® and integrate them into the existing design.

Additionally customers will find links to current catalogs of BESSEY Tool's complete product range at <http://bessey.partcommunity.com> which prospective customers can download in their respective language for free and get a detailed PDF about the self-adjusting toggle clamp STC. In addition, another link leads to product pictures and a YouTube Video, explaining the self-adjusting toggle clamps in a funny way and with attention to detail.



Bessey Tool's 3D CAD download portal can be found at:

<https://bessey.partcommunity.com>

“CADENAS is a key element in making IMI Precision Engineering an online world class user experience”



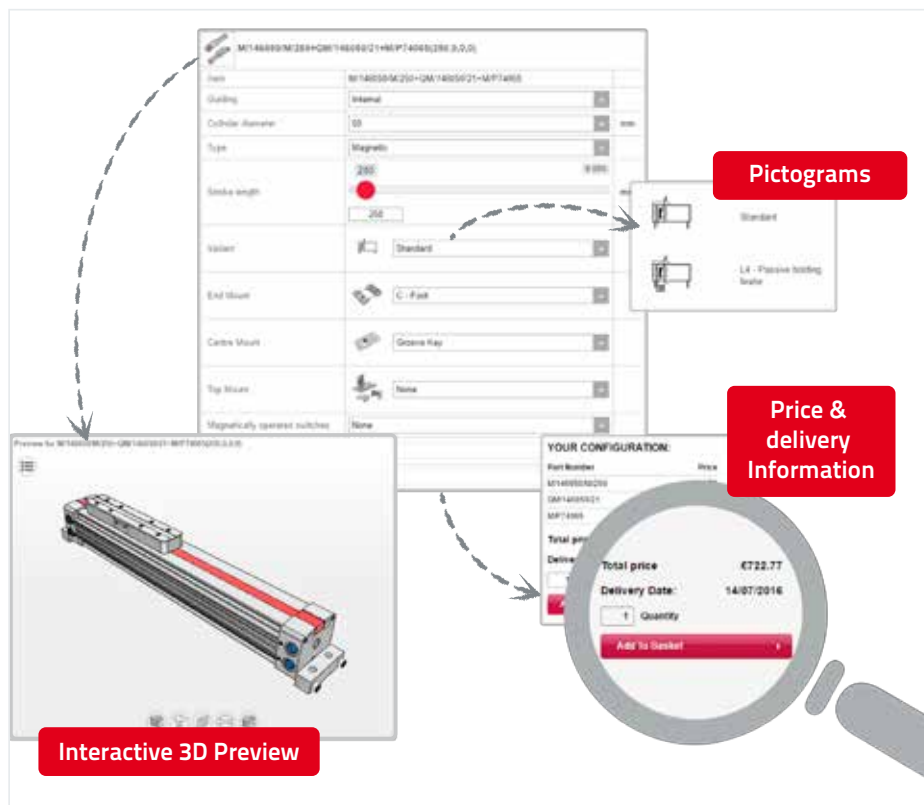
IMI Precision Engineering is seeing a huge increase in customer satisfaction all thanks to the first ever integration of eCATALOGsolutions into an eShop

For IMI Precision Engineering customer satisfaction is the key. Providing product information in a simple and easy way to use product configurator was the best solution.

The Electronic Product Catalog based on the eCATALOGsolutions technology was seamlessly integrated into the existing website and eShop maintaining the full IMI Precision Engineering branding. “CADENAS was the obvious choice due to the ease with which we could embed configuration technology and CAD downloads into our existing website,” explains Jez Ashton IMI Precision Engineering Global Online Marketing Manager. The company believes that the eCATALOGsolutions forms a key part of their online marketing strategy for their products.

Seamlessly embedded portal into the existing eShop

As a global manufacturer of drive and fluid technology with locations in over 75 countries, IMI Precision Engineering offers product groups of actuators and grippers for configuration. More products will follow. eCATALOGsolutions supports multiple languages, as well as providing over 100 native CAD formats online within the eShop. “An Electronic Product Catalog is something that CADENAS has been providing for over 20 years. For IMI Precision Engineering we wanted to take it to the next step and offer an embedded portal that communicates with the customers’ existing eShop and CRM system. This is the first, but certainly not the last time that CADENAS realized this connection,” explains Jürgen Heimbach, CEO of CADENAS.



“Our customers can configure product, obtain a price and availability and order online instantly. All the information needed is available in real time and the user has it all presented on a single page of the website. Configuration and CAD functionality provided by CADENAS is a key enabler as we strive to provide a world-class online solution,” further explains Jez Ashton. The 3D CAD download portal is seamlessly embedded within the eShop ensuring an individual tailored offering within the existing IMI Precision Engineering branding that clients recognize.

An increase in sales leads

A specific part number is assigned to each customer configured product that has been downloaded. This is then stored within the IMI Precision Engineering CRM system along with the customer details enabling the sales nurturing process to begin. Nurturing involves providing additional and relevant product information that has been tailored to the specific product downloads that have been made. This ensures higher customer satisfaction and customer conversion rates which is a win-win situation for client and provider alike. IMI Precision Engineering predicts that this link between the systems will help to drive an increase in sales. “It took no time at all before both teams of CADENAS and IMI Precision Engineering to build an efficient working

relationship. It was a very easy transition,” tells Jez Ashton of IMI Precision Engineering.

Just the start for IMI and CADENAS' relationship

“Creating an Electronic Product Catalog that is seamlessly integrated within the existing IMI eShop and CRM system was highly recommended by CADENAS. We believe in becoming a trusted partner and advisor with IMI Precision Engineering in order to help deliver a “Best In Class” online go to market offering for their complete product range,” announces Colin Johnson, Director of CADENAS UK. IMI Precision Engineering plan to extend not only the offering to their entire product range but also across locations around the world. This will ensure the solution is tailored by country location helping to further provide a specifically customized end user experience.



The product configurator can be found at:

www.imi-precision.com

easyRoute from PFLITSCH enables efficient planning of cable ducts directly in the customer environment



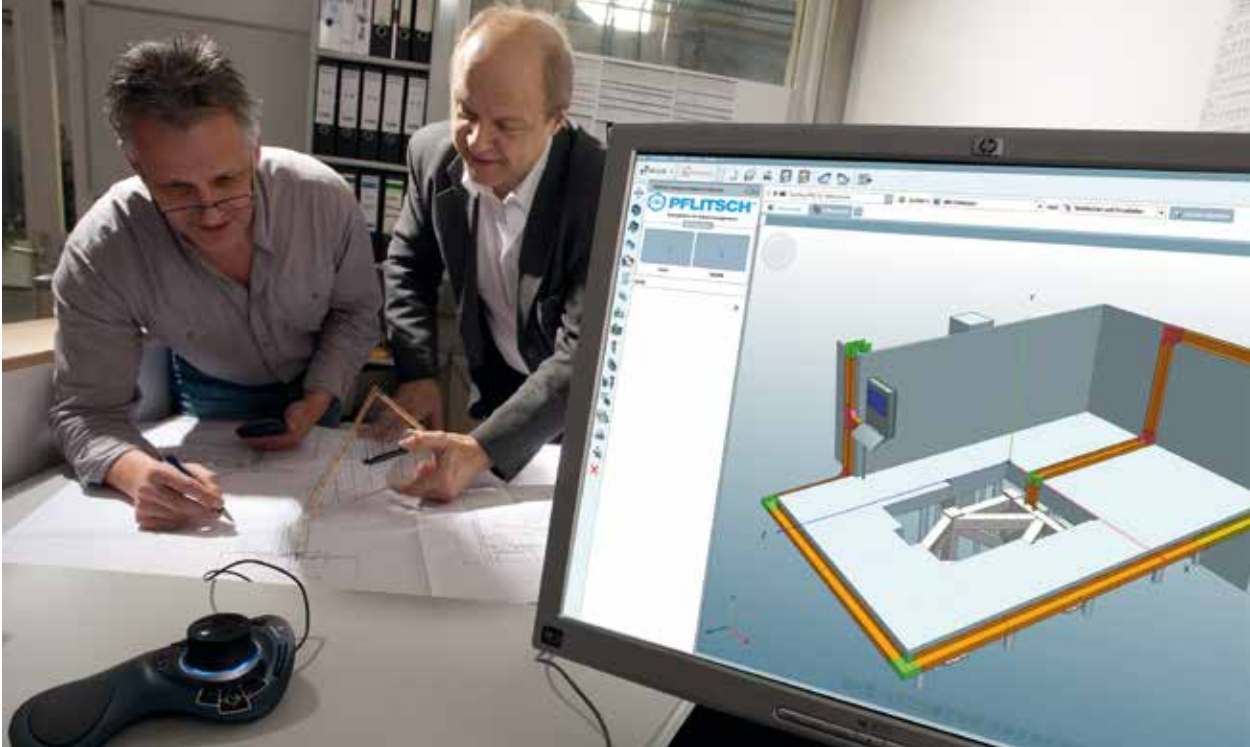
CADENAS tool facilitates project planning for PFLITSCH customers and sales



Planning and configuration of cable routing for systems and machines is time-consuming and complex. PFLITSCH has developed the tool easyRoute to optimize cable planning. PFLITSCH customers have been excited for many years now. Thanks to easyRoute, individual cable routes can be created in 3D on the computer. The newest version, easyRoute 4.0, has a special function: CAD data from the customer, e.g. in-house machine bodies or machine and industrial halls, can be imported as STEP files. Cable routing can be planned easily and quickly in the customer's virtual environment.

“easyRoute facilitates the exact planning and configuration of our cable routes, as several work steps are eliminated. The Assemblies Service makes it possible to order the individually planned assembly on the desired delivery date. Installation at the customer's site is also possible. This can reduce customer costs by as much as 20% and shorten the process time of the projects by one-half. The entire planning process is fully digitalised, starting at the customer's design till production,” explains Ralf Paulus, Production Manager at PFLITSCH.

Following registration and activation, the planning software easyRoute can be downloaded free of charge via the PFLITSCH Club (www.pflitsch.de/en/pflitsch-club/).



Wire tray ducts are now configurable

When planning routes, easyRoute uses a configurator with PFLITSCH components. The eCATALOGsolutions technology from CADENAS serves as the basis for the product configurator. PFLITSCH has successfully used this CADENAS solution for more than 10 years now. In the process, easyRoute is constantly being expanded to introduce new products. New in the configurator is the PFLITSCH wire tray duct program in all available dimensions and molded parts. In addition, complex configurations, such as combining closed and open cable ducts, can be carried out tailor-made. As an additional feature, single components can be modified, for example, to add recesses and holes. The entire configuration can then be completely downloaded in CAD. Users are given a choice of over 100 common CAD formats.



Planning tool "easyRoute" supports sales and the technical office of PFLITSCH

The Interactive Product Configurator from CADENAS can be put to use flexibly: Sales can perform project planning at the customer's site or, in case PFLITSCH customers' don't do the planning themselves with easyRoute, give their support via the technical office located in Hückeswagen (Germany). "The Interactive Product Configurator from CADENAS is available to PFLITSCH customers, the sales force, the technical office or the sales partners, in order to offer the best service and to ensure closer cooperation between manufacturer and customer," says Markus Poppinghuys, Branch Manager of CADENAS Essen (Germany).

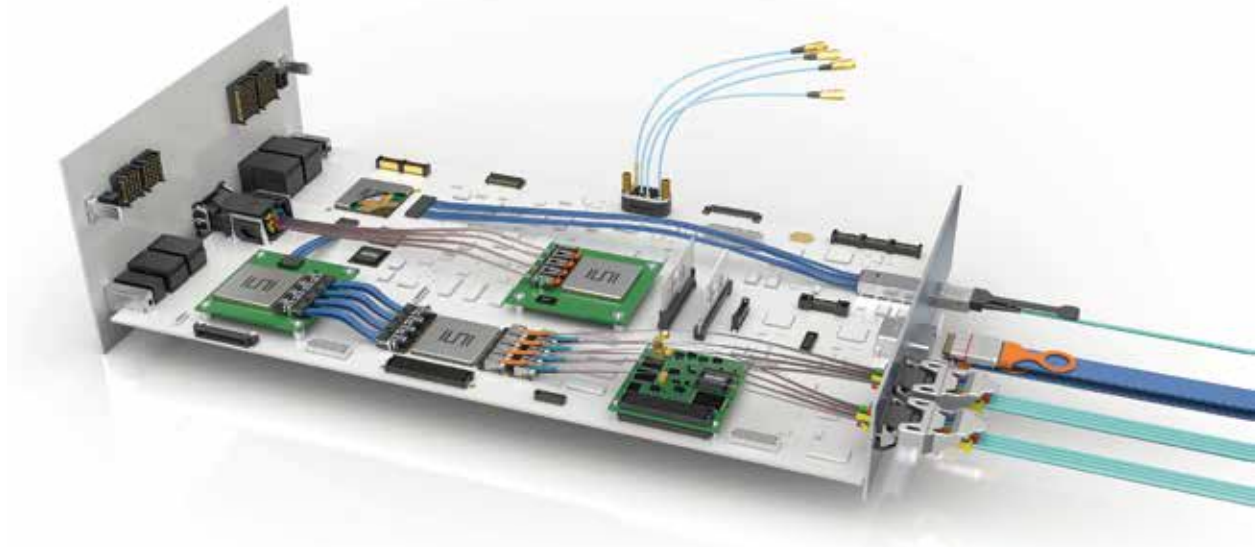
Planning tool and manufacturer certified 3D CAD models

PFLITSCH has been on the market for nearly 100 years. The medium-sized company from Hückeswagen (Germany) offers cable clamps and ducts as well as suitable accessories and services. At the PFLITSCH website, customers not only have access to the planning tool easyRoute but also to PFLITSCH 3D CAD models based on the eCATALOGsolutions technology.



After a short registration and activation, updated data is always available for customers at:
www.pflitsch.de/en/pflitsch-club

Samtec reduces download time from 24 hours to 24 seconds



Samtec uses innovative online configurator by CADENAS to boost electrical component business

Samtec is one of the leading manufacturers in the electrical industry worldwide and offers a wide range of electronic connection solutions. The Samtec company is privately owned and generated revenues of US \$ 625 million in 2015. In 2016, Samtec introduced an Electronic Product Catalog and the Interactive Product Configurator from CADENAS for its 3D CAD models.

The new, easy-to-use online tool enables engineers to dynamically configure, preview and download over one-trillion Samtec product models in the native CAD format of their choice. Once configured, components or product data can be downloaded in just a few clicks. This digital capability adds speed, accuracy and flexibility in the design process specifying Samtec components.

Customer service is the key

The Samtec Sudden Service® supports global customers with the tools, products and services to ease the connector design process. This dedication to customer service sets Samtec apart from their competitors. "We built a reputation as an industry leader by providing mechanical product samples within 24 hours or less," says Daniel Williams, Business Analyst at Samtec, Inc. A similar success should now be achieved with digital users. The selection by Samtec was made for CADENAS PARTsolutions LLC, the American subsidiary of CADENAS Technologies AG, as a partner.

»» CADENAS replaced our entire 3D CAD model catalog in 9 months, and now the CAD models are dynamically generated in real-time on their servers and instantly available in 150 current formats. We are known for our 24 hour sample model, but we are now accelerating that by providing digital samples within 24 seconds. ««

Daniel Williams, Business Analyst at Samtec, Inc.



Samtec's new 3D configurator and CAD catalog

Using a world-class platform to meet exacting requirements

“For Samtec, 3D model accuracy and reduced download times were essential. CADENAS brought those capabilities to the table,” adds Williams. “The opportunity to integrate with a world class platform and collaborate with their technical support team proved indispensable. They exceeded our expectations to create the exact solution we needed. Their implementation team responded quickly and professionally as the project progressed.”

Digital performance proves an air-tight ROI

Samtec’s interactive catalog of 3D CAD models is built upon CADENAS eCATALOG solutions platform, which leads the industry with more than 700 active clients. “Samtec has truly embraced our digital catalog technology while promoting it extremely well to their electronic engineering user base. Their download performance is the proof,” says Jay Hopper, VP of Sales and Marketing at CADENAS PART solutions LLC. “Every minute an engineer downloads a Samtec product model into one of their designs, around 26,000 downloads per month. That’s a marketing tool that performs.”



You can find more information about Samtec's Electronic Product Catalog in the common success story at:

www.cadenas.de/success-stories/samtec

We will show you what you need to know about (online-) marketing in China

„Have no fear of other cultures or rules!“

Since CADENAS customers are increasingly asking about marketing measures in China, CADENAS has asked Axel Sir the Head of International Business at the Chamber of Commerce and Industry and the Managing Director of CADENAS China Ltd. Yi Lan to give their personal assessment on various topics.



Here are the most important points - the entire interview with further information can be found on our website:

www.cadenas.de/erfolge-2016/marketing-china-en



Axel Sir
Head of International Business, IHK



Yi Lan
Managing Director CADENAS China Ltd.

Why WeChat is a must and many numbers in e-mail addresses are harmless

- Make sure you write websites and advertising materials in Chinese. Interested people feel safer and more serious when they read in their mother tongue.
- Good (personal) business relationships enable access to the Chinese market.
- You can also use Tencent's Social App WeChat. The app combines many platforms: messenger, shopping, finance, e-mail etc. and is also very common.
- In China, mobile devices are often used. Always think of optimizing your websites for smartphones and tablets.
- There are many Chinese platforms that offer similar offerings to Western providers. Find out what is best for your product.
- Principle employees can also use their private e-mail addresses for business purposes - this is different from company to company.
- The most popular e-mail providers are QQ, 126.com, and 163.com.
- The form of the e-mail address differs from European ones: Many people register with a mobile number. For example, the address looks like this: 01711234567@126.com.cn. Many numbers in an address does not necessarily mean spam.

Millions of 3D and 2D CAD models are directly available in CorelCAD



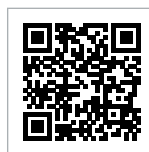
The new PARTcommunity plugin enables quantum leaps by directly accessing 3D CAD manufacturer catalogs in CorelCAD

CADENAS published the new PARTcommunity plugin for CorelCAD. A new service for the fast growing community of CAD software users CorelCAD™. Engineers have access to millions of CAD models from well-known manufacturers directly within the CAD system. Subsequently, the desired CAD model can be loaded directly as 3D-, or in different 2D views, in CorelCAD and used for the design work. Furthermore, the models in CorelCAD can be modified for the design work. The PARTcommunity plugin is directly integrated into a CorelCAD window. A selection of the CAD format as well as a registration is not necessary.

Using a dialog window, users can easily and quickly search the various catalogs of well-known international manufacturers for the appropriate component. A full-text search is also available.

At an affordable price, there is also access to premium content where users can also use standardized CAD models of components as well as standard parts, without having to name a specific manufacturer. This can be useful if the design drawing is used, for example, for an offer. The free plugin is available through the CorelCAD Market (www.corelcamarket.com). The PARTcommunity plugin

for CorelCAD was developed by the software manufacturer CADENAS in Augsburg in cooperation with Gräbert from Berlin. The hitherto tedious search for the desired standard or purchase part is greatly simplified and the design work of engineers is thus even more effective. CorelCAD is a powerful and cost-effective CAD software solution with industry-standard CAD features and tools for precise 2D drawing creation and 3D design. The native support of the DWG file format ensures productive workflows and a carefree collaboration in various areas from the manufacturing industry to architecture and engineering.



The free plugin can be found here:

www.corelcamarket.com

Product configurator reduces the time of offer preparation at LUCAS from 2 days to 5 minutes

Interactive Product Configurator from CADENAS enables over 22,000 combinations from LUCAS linear axes for robotics

LUCAS

The French company LUCAS opted for the product configurator from CADENAS to automate their quote generation. The manufacturer of linear axes for robotics has reduced the time needed to generate quotes from 2 days down to 5 minutes.

LUCAS offers with its linear axes for robot technology to offer comprehensive toolbox for integrators of robotics: Ratio axes, linear modules with two, three and four axes as well as swings. LUCAS robots are used in many areas, e.g.: surface treatment, welding, packaging and commissioning, loading and unloading of machines as well as in the area of the aviation and automobile industry.

The assemblies of LUCAS are strongly modular and built with numerous variable properties. The primary goal therefore was to automate the preparation of offers. The preparing of an offer for a track is not easy. The axis can be linear or rotating and can be equipped either with one or two slides on which one or more robots are placed.



LUCAS at a glance:



LUCAS company: **75 employees**



Product configurator: **22,000 combinations**



Offer preparation: in **5 minutes** instead of **2 days**



Employee training for the product configurator: **< 1 work day**

LUCAS was looking for a solution on how to integrate its data into a product configurator. Furthermore, customers and prospectives should be offered the possibility to configure the track for themselves and determine the price for the configured component. Before the product configurator was introduced, offers had to be prepared manually after an engineer examined the inquiries. This process took an average of two days.

Product configurator with a suitable interface

CADENAS' product configurator is easy to use and yet has all the technical resources in the background. CADENAS meets exactly all the requirements of the manufacturer LUCAS: A user-friendly software solution to configure the floor track on the internet, prepare offers and provide the matching 3D CAD models, without the

processor being dependent on information from the ERP system for each modification. "Even though the product configurator from CADENAS is set up in the background in a complex manner, using it is extremely easy for our customers and our sales staff. Less than one working day is needed to train our employees," says Stéphane Lucas, Project Engineer - LUCAS FRANCE.

Fast configuration and price calculation

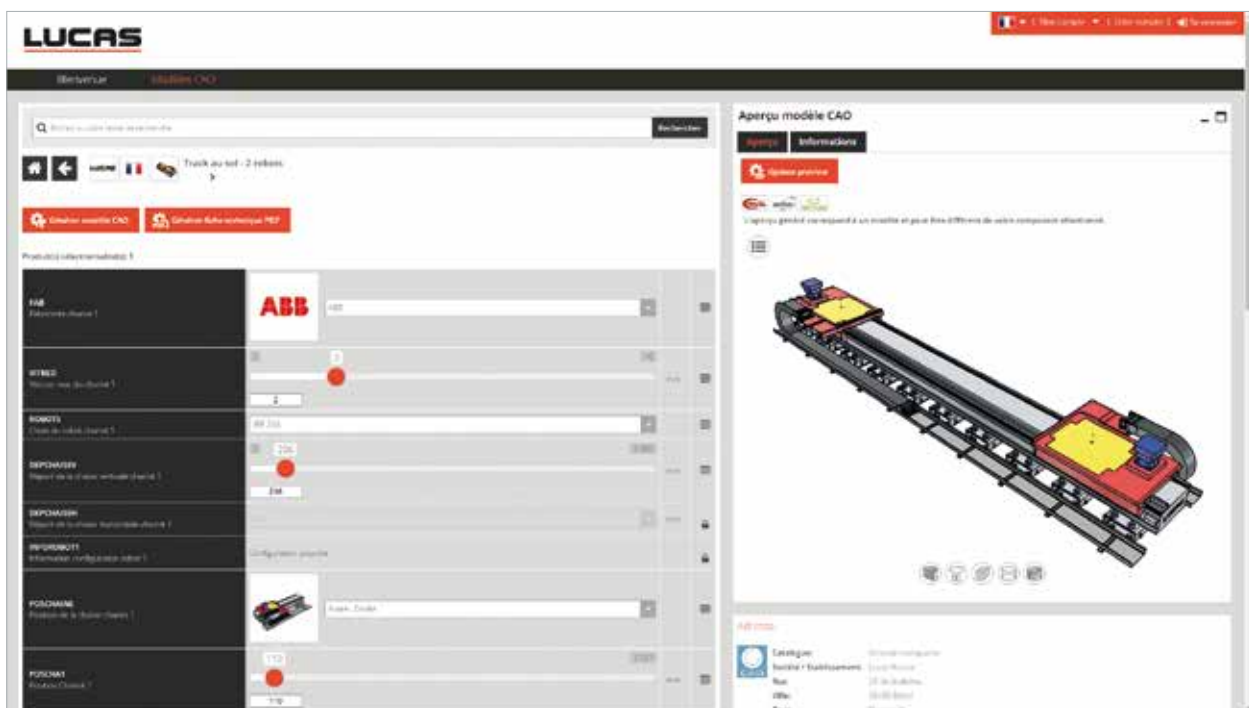
The Interactive Product Configurator developed by CADENAS combines various components, the final result of which is made up of the entire floor track and robot. There are more than 22,000 different combinations possible. The entire unit is thus configured very quickly. The price per meter and per slide can be calculated very quickly, thanks to the interface to the LUCAS ERP system, and so the offer is available almost instantaneously.

As soon as the configuration is completed, the engineer can download the 3D CAD models of the assemblies and integrate them into their design. Moreover, technical documents and assembly instructions are available for download. The product configurator is thus an indispensable tool to implement designs.



More information about the Interactive Product Configurator at LUCAS can be found in the common success story:

www.cadenas.de/success-stories/lucas



CADENAS product configurator at LUCAS

»» The greatest advantage of our product configurator lies in the preparation of offers: What previously took us two days to complete can be done now in a matter of minutes. ««

Stéphane Lucas, Project Engineer - LUCAS FRANCE



Schiedel offers powerful customer service for BIM, architecture and plant engineering with CADENAS

Several assemblies in all important CAD formats are always available up-to-date and compatible



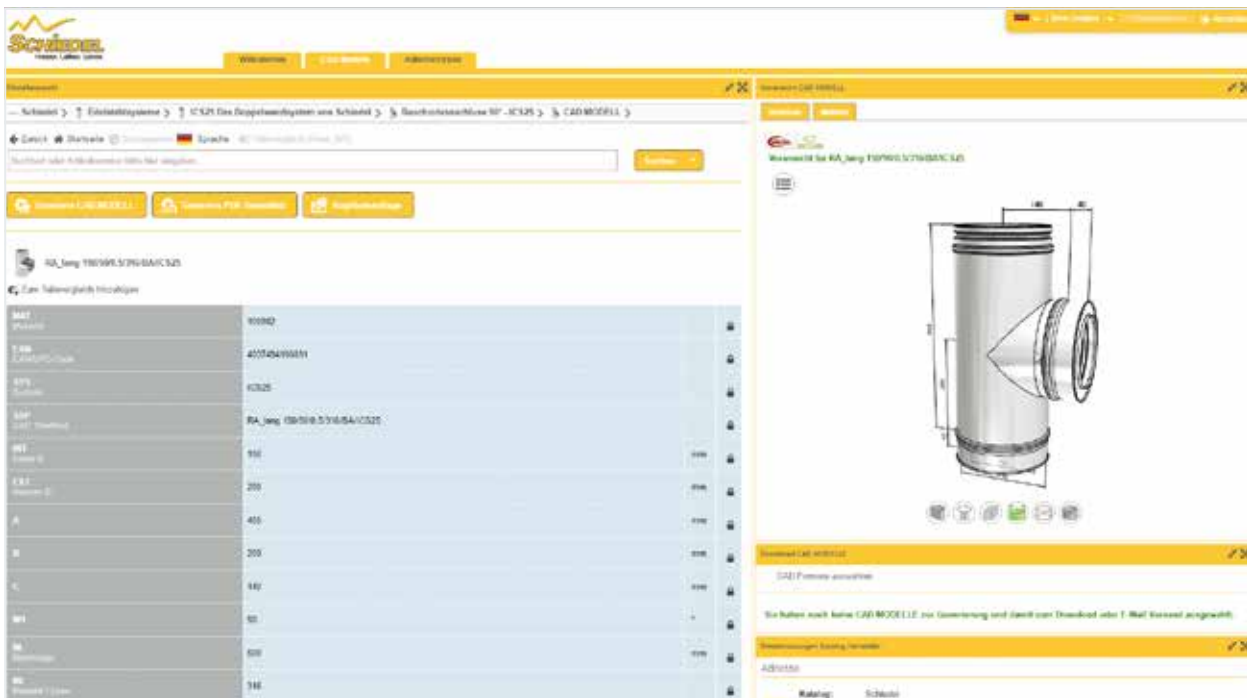
Schiedel is one of the leading manufacturers for exhaust gas systems in new buildings and decided for CADENAS' Electronic Product Catalog, to improve its BIM area for tendered architecture projects, plant engineering etc.

Work faster and easier with current data

The Electronic Product Catalog – based on the eCATALOGsolutions technology – and access to the 3D CAD download portal <http://schiedel.partcommunity.com> are the basis for Schiedel customer service on a grand scale. "Primarily, we want engineers, planners and architects to have a significant influence on the choice of the chimney at the beginning of the planning process. With an Electronic Product Catalog, working as a 3D CAD library, this is a lot easier, since data is always up-to-date and correct," Herbert Pühringer explains, who is responsible for the design area and 3D BIM CAD libraries at Schiedel.

Download BIM- and AEC CAD data around the clock

Currently the double-wall system ICS25 is available to download. Schiedel ICS is a double-walled stainless steel exhaust system with continuous modular-type insulation, suitable for exhaust gas routing from fireplaces with gaseous, liquid and solid fuels. All BIM and AEC CAD formats, like Autodesk Revit, Nemetschek Allpan and Grafisoft Archicad for the respective CAD systems and purposes, are available to engineers, planners and purchasers. Regardless of location and time, customers can access data, download or select 3D BIM CAD models immediately during a consultation meeting. It is also ensured that the products can be provided in all current languages. Further 3D BIM CAD libraries for stainless steel and ceramic chimneys as well as Kingfire furnace systems are being planned.

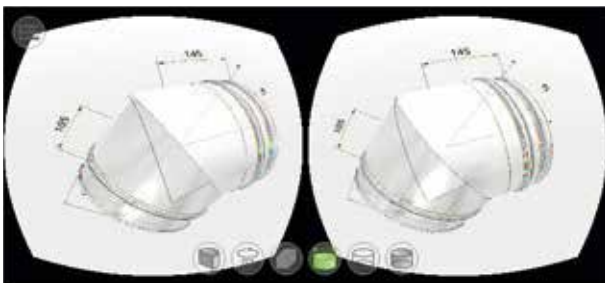


3D CAD download portal of Schiedel

3D visualization with dimensioning

Depending on the application, components can be perfectly selected as individual parts or configurable assemblies (in preparation for the ceramic chimney sector). The web visualization in 3D with dimensioning is possible as well as the usual 2D view.

Virtual reality supports the imagination of architects and planners



As an additional highlight, engineers can use the virtual reality feature of the interactive product catalog. With a cardboard viewer and smartphones, architects can look at 3D models. This supports the imagination of users and Schiedel products can be experienced more easily.

Topicality and compatibility

The major bonus point for Schiedel customers is, that CADENAS is a powerful ally. The software developer from Augsburg ensures topicality. Moreover, compatibility is guaranteed with all important CAD systems and versions of the included BIM and AEC CAD data in the Electronic Product Catalog.

Long-term experience builds confidence

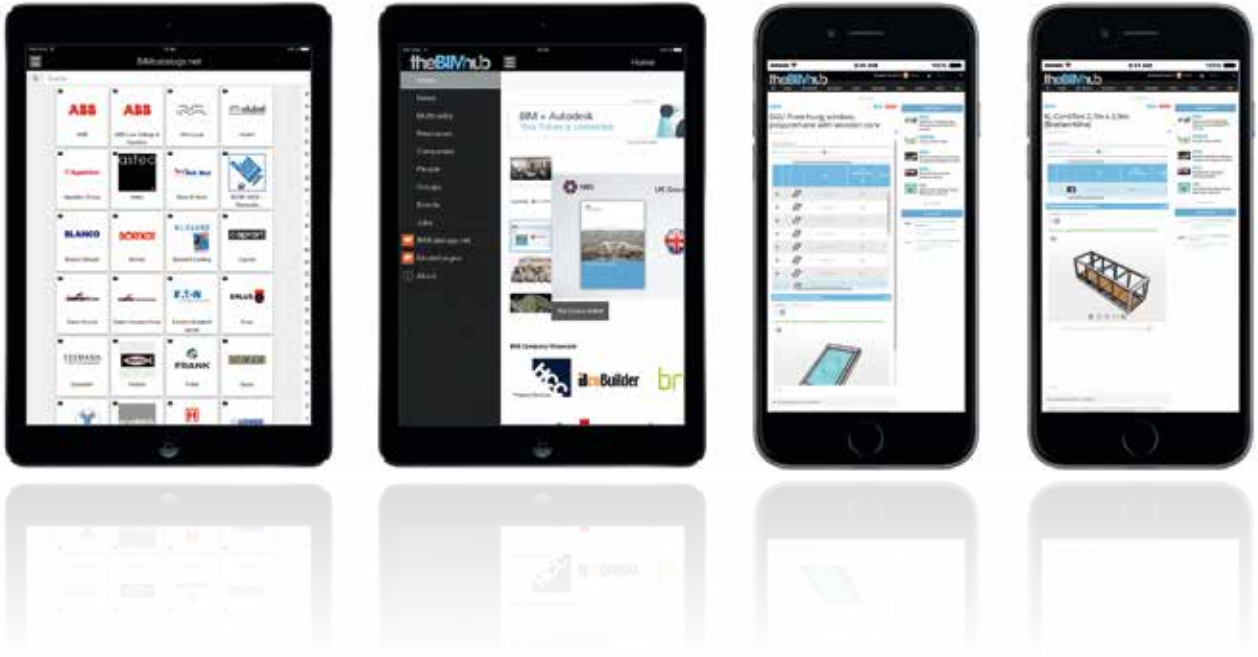
"So far, components have been perfectly prepared for users, however we are still on 'level one'," says Jürgen Heimbach, CEO at CADENAS. Further extension and development will follow. Herbert Pühringer explains why the cooperation between Schiedel and CADENAS is not without reason: "We have known CADENAS for a long time. In our internal design, we often work with components from diverse electronic catalogs," he confirms. "Moreover CADENAS is one of the few providers of 3D CAD objects for mechanical engineering (plant engineering) as well as architecture (BIM). This way we kill two birds with one stone."



Schiedel's 3D CAD download portal can be found at:

<http://schiedel.partcommunity.com/>

Empowering the world's BIM community with 3D BIM CAD models by CADENAS



Partnership agreement of CADENAS and The BIM Hub - it all starts with an app

The BIM Hub®, a trusted networking environment for BIM Professionals and CADENAS, a world leader in 3D CAD models have come together in January to sign a significant partnership agreement. In doing so, their combined expertise now provides the best possible service for architects and engineers in the construction industry worldwide thanks to a stunning new mobile app and well established online platform.

“CADENAS and The BIM Hub can now offer the full package to professionals in the construction industry,” explains the CEO of CADENAS, Jürgen Heimbach. “We supply the 3D BIM CAD model knowledge and The BIM Hub provides a robust and trusted environment for BIM and AEC professionals outright”.

The BIMcatalogs.net add-on then delivers around the clock access to intelligent 3D BIM CAD component data to engineers, designer and constructors worldwide from any computer or mobile device which can then be imported freely into their respective CAD systems. Native formats such as Autodesk Revit, Nemetschek Allplan, Graphisoft ArchiCAD etc are always available.

All in one, on the go – a new app

Since April 2016 The BIM Hub app powered by CADENAS is available from the iTunes and the Google Play Store. In this easy-to-use app, the wellknown company news, case studies, discussions, articles, networking and BIM resources from The BIM Hub complement the CADENAS knowledge of 3D BIM CAD models.

Allowing BIM professionals to now bridge the gap between mobile platform and native integration of product data in one location. Through The BIM Hub's Middle Eastern partner, the Jordan Engineers Association, the app was announced over 70 supplier certified catalogues already and to the organisation's 120,000 engineers. In worldwide terms, the reach and the scope of The BIM Hub's product portal will only continue to grow.

To complement this, 3D BIM CAD models by CADENAS will also be embedded on TheBIMHub.com to be downloaded and implemented directly for users requiring an additional desktop experience.

The best of both worlds - for free

"What The BIM Hub values above all else is to empower the BIM community to connect, learn and develop," explains founder Tahir Sharif. "We enable construction professionals to network in a trusted environment. CADENAS will help us to enhance the user experience by providing high standard BIM models, enabling The BIM Hub environment to offer the best of both worlds for all construction projects."

Just the beginning of the partnership

The joining of the two platforms and the mobile app is just the beginning of a long and hopefully prosperous relationship between the two companies. At the CADENAS Industry-Forum held in Marh 2016 The BIM Hub founder Tahir Sharif himself discussed "The importance of the 'I' in BIM". The presentation was held in the WWK football arena of Augsburg's own Bundesliga Team and is available for all to see online at www.industry-forum.biz.



the **BIM** hub



Networking
environment for
BIM professionals –
The BIM Hub®:

<https://thebimhub.com>



2D & 3D BIM
CAD data on
BIMcatalogs.net:

<https://bimcatalogs.net>

WALL PLANNER

With CADENAS be successful throughout the year in 2017

Tradition against innovation - who scores in this battle? If you want to land targeted, effective hits, you must always keep moving. What has been considered a secret recipe in the past is no longer the most promising tactic today. It is therefore worthwhile to take a closer look at whether traditional marketing tools can actually exert their greatest impact or if there are no more promising strategies.



A huge, hidden potential is waiting for you! Find out whether traditional marketing tools are already counted, and what tactical advantages are offered by a 3D CAD model download portal, based on eCATALOGsolutions technology.



Download at:

www.cadenas.de/kalender/ecatalogsolutions-2017






2017

Nachhaltige Kostenreduzierung bei Norm-, Kauf und Eigentteilen im Engineering und Einkauf





Das Strategische Teilemanagement

DEZEMBER 2016	JANUAR 2017	FEBRUAR 2017	MÄRZ 2017	APRIL 2017	MAI 2017	JUNI 2017	JULI 2017	AUGUST 2017	SEPTEMBER 2017	OKTOBER 2017	NOVEMBER 2017	DEZEMBER 2017	JANUAR 2018
1 DO	1 SO	1 MI	1 MI	1 SA	1 MO	1 DO	1 SA	1 DI	1 FR	1 SO	1 MI	1 FR	1 MO
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4 SO	4 MI	4 SA	4 SA	4 DI	4 DO	4 SO	4 DI	4 FR	4 MO	4 MI	4 SA	4 MO	4 DO
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30 MO	30 DO	30 DI	30 DI	30 FR	30 SA	30 DO	30 MI	30 SA	30 DI	30 MO	30 DO	30 SA	30 DI
31 SA	31 DI	31 FR	31 FR	31 MO	31 MI	31 DO	31 DO	31 MI	31 SA	31 DI	31 SO	31 DI	31 MI


Strategisches Teilemanagement

Warum Sie es jetzt auch mal argumen sollten!




Finden von Informationen

Wann das nicht mehr die Lösung ist



Anlage von sauberen Stammdaten

5 Schritte Implementierung




Multi CAD

Das MultiCAD für Multi CAD




PURCHINERING 2.0

Der Friseur



Finding Information





When searching takes a life time...


Not even searching, but designing anew is no solution either


It seems to be easy instead of looking for an existing component in the existing partial stock, to simply re-construct them. At first sight, it seems tempting, but leads to extensive extra work. With the intelligent search methods from CADENAS, there is no more excuse, not to search!

Intelligent Finding by CADENAS - reducing search times by up to 90%



Full-text Search


3D Geometric Similarity Search


2D Sketch Search


Topology Search


Unmachined Part Search


Semantic Search

The PARTsolutions wall planner 2017 is equipped with a rewritable whiteboard maker ...

... and therefore very flexible - as well as Strategic Parts Management by CADENAS, which will provide you with its Intelligent Finding Methods Access to standard & purchased parts from various well-known manufacturers.



Download at:
www.cadenas.de/kalender/partsolutions-2017

You don't have the CADENAS Calendar 2017 on your wall yet? Then use this opportunity and write an email with subject »PARTsolutions Calendar 2017« or »eCATALOGsolutions Calendar 2017« to Marketing@cadenas.de.

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CADENAS GmbH Setting Standards

CADENAS is a leading software manufacturer in the areas of Strategic Parts Management and parts reduction (PARTsolutions) as well as Electronic CAD Product Catalog (eCATALOGsolutions).

With its tailor-made software solutions, the company provides a link between component manufacturers and their products as well as their customers.

The name CADENAS (span. process chains) has stood for success, creativity, consultation and process optimization since 1992, with 320 employees at 17 international locations.

CADENAS has established many important innovations and trends in the role of initiator and pioneer.

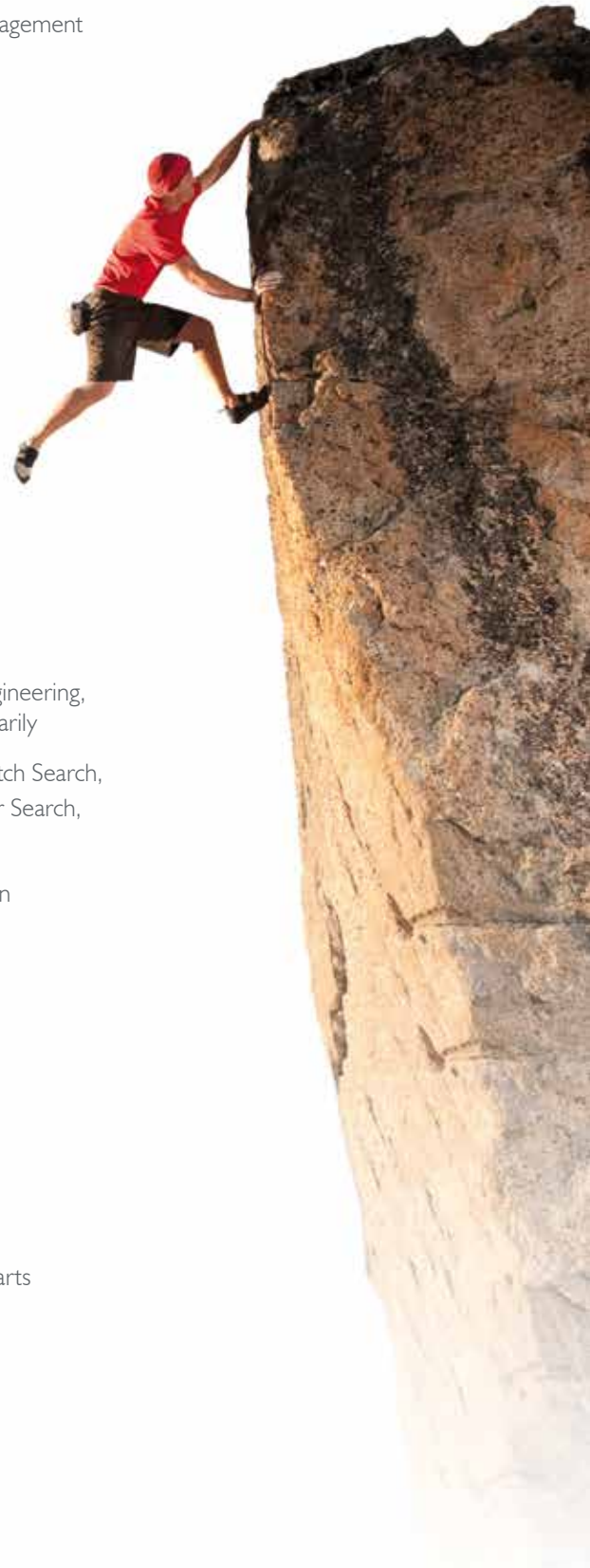
PARTsolutions innovations:

- PURCHINEERING 2.0: Optimized cooperation between purchase and engineering, including automatic background service to avoid creating new part unnecessarily
- Find components in an intelligent way: Geometric Similarity Search, 2D Sketch Search, Topology Search, Cloud Navigator Search, Unmachined Part Search, Color Search, Partial Search and many more
- Classification 2.0: Parametric reference model instead of manual classification

eCATALOGsolutions innovations:

- Multi CAD solutions with native & intelligent engineering data
- PARTcommunity Embedded – Seamless integration of a 3D CAD model download portal into the company's websites
- Smart Sales – Offering the right product, to the right person, at the right time and the right place
- 3D CAD models app – mobile access to millions of standards & purchase parts
- BIMcatalogs.net: Worldwide marketing of your components to architects, engineers and planners
- Support of augmented reality and virtual reality

Further information at: www.cadenas.de/en



CADENAS unites manufacturers & suppliers of components with the industry!



CADENAS solutions for
manufacturers & suppliers of components

The Electronic Product Catalog



The software solution to create and promote Electronic CAD Product Catalogs.

The Intelligent CAD Models



More than geometry: Optimal product and engineering data with the maximum comfort and functionality.

The Smart Sales Solution



Know who and where your customers are: Offer products at the right time, right place and to the right people.

The Vertical Marketplaces



Numerous online marketplaces with millions of users to multiply your Electronic CAD Product Catalog.

BIMcatalogs.net



Technologies and Know-hows of the Electronic Product Catalog for the architectural sector.



CADENAS solutions for
industrial buyers of components

The Strategic Parts Management

Sustainable cost reduction of standard, supplier and company parts for engineers and purchasers.



The Geometric Similarity Search

Find available CAD geometries in a smart way and classify them semi-automatically.



The Supplier Portal

The platform improves the communication to external suppliers.



The PURCHINEERING Concept

Improves the cooperation between purchasing and engineering.



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