

Industrial machinery

NGCT Cleansys

Industrial cleaning equipment supplier reduces rework and increases productivity with Solid Edge

Product

Solid Edge

Business challenges

- Engage in new product development
- Accelerate time-to-market
- Improve efficiency

Keys to success

- Switch to direct 3D modeling
- Eliminate design errors and reduce rework
- Easy tracking and re-use of designs by vendors

Results

- Completely streamlined 3D design and production
- Reduced rejection rate from 30 to 10 percent
- Reduced cost by 10 percent
- Increased productivity by 10 percent

Solid Edge enables NGCT Cleansys to achieve significant efficiency gains and productivity improvements

A spick and span venture

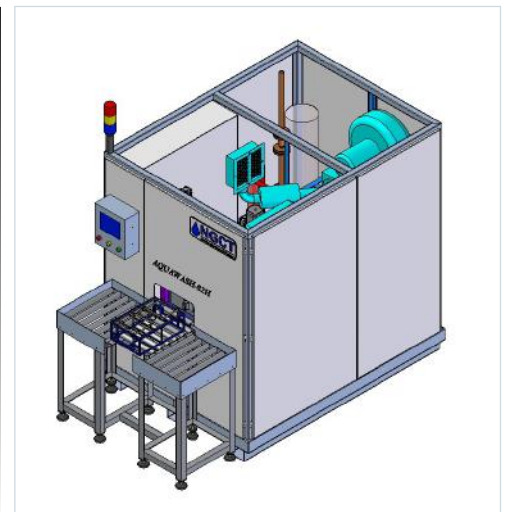
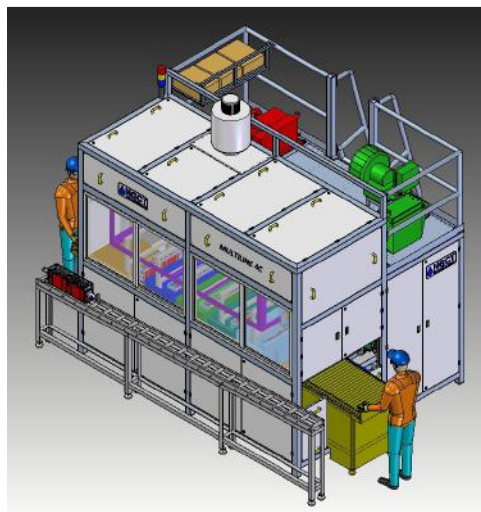
As industrial standards for maintaining the cleanliness of components become more stringent, the demand for cleaning solutions that can meet these requirements has also increased. Major industries turn to NGCT Cleansys Pvt. Ltd. for procuring standard and customized machines that meet the high requirements for cleaning and degreasing industrial parts and components.

NGCT Cleansys designs, manufactures and supplies cleaning equipment with aqueous

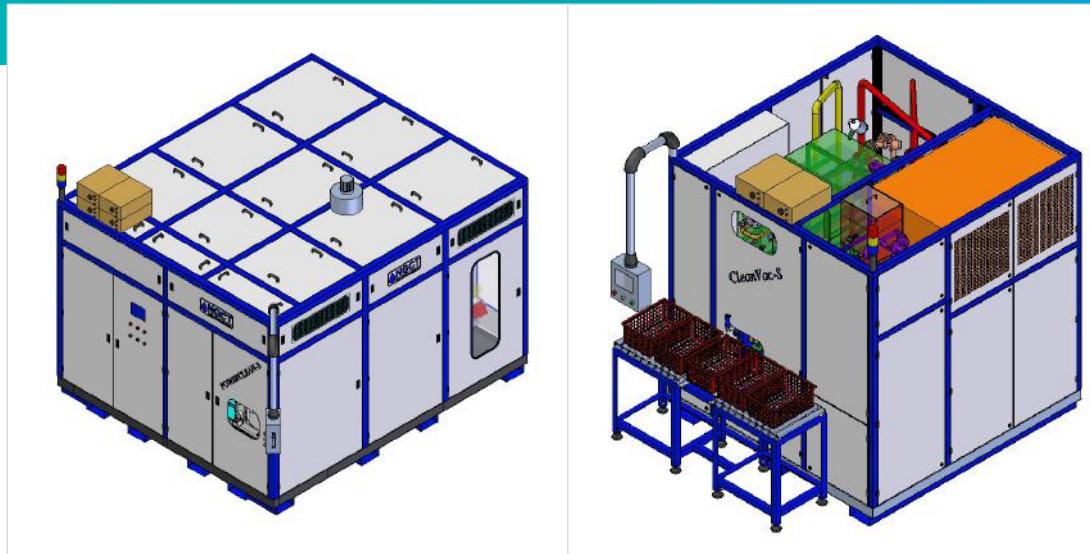
and solvent-based technologies. The company supplies a wide range of industries, from automotive to aerospace to semiconductors to jewelry making, from its 22,000 square foot manufacturing base in Pune, India. Its products include single and multi-chamber, multi-process systems, tunnel washers, and vacuum-assisted solvent systems in standard and tailor-made designs.

Clean technologies

NGCT Cleansys operates in a rapidly changing environment, addressing specific customer requirements pertaining to degrees of cleanliness and dryness, the geometry of components or type of contamination. The company therefore uses the latest machines and tools for assembly, precision measurement, testing, quality assurance and installation and commissioning of machines.



The 3D environment of Solid Edge delivers the ability to design, simulate and manage design data, and also includes synchronous technology that enables quick revisions and easy re-use of design data, features that NGCT Cleansys required to improve design and production.



To offer end-to-end and customized solutions, NGCT Cleansys houses a technology center with state-of-the-art testing equipment and relies on an established base of vendors and suppliers. While fulfilling industrial and customer expectations, the company must also make certain that the machines are environmentally friendly and save energy, in addition to successfully performing challenging cleanliness tasks.

Next-generation design tools

In the past, NGCT Cleansys relied on AutoCAD® software in a 2D design environment. The 2D approach made the design process challenging, as it was difficult to visualize or precisely gauge parameters for elements such as pipes in two dimensions. This limitation led to frequent

reworking of designs to correct errors and improve quality. Other challenges, such as revision tracking and the inability to use design data from different vendors, limited the company's productivity.

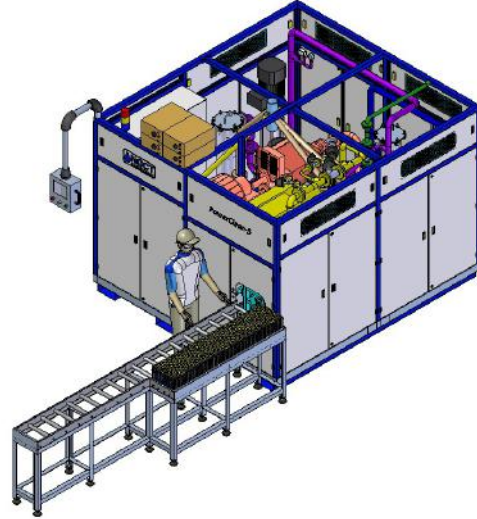
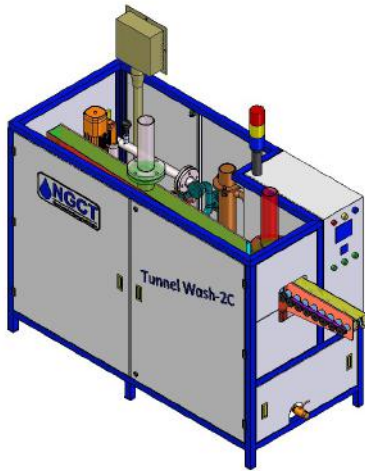
Management at NGCT Cleansys envisioned an advanced and integrated 3D system that could help minimize errors, improve quality and increase productivity. The company had several criteria for the new system: it should be flexible in use, models should be easy to understand, and it should help minimize time-consuming rework.

Going for the cutting edge

NGCT Cleansys opted for Solid Edge® software from Siemens PLM Software.

“With Solid Edge with synchronous technology, we’re no longer faced with the problem of releasing and tracking drawing revisions.”

Vinay Anagol
Managing Director and Chief Technical Officer
NGCT Cleansys Pvt. Ltd.



Solid Edge includes leading-edge computer-aided design (CAD) tools that help manage virtually every aspect of design, manufacturing and production. The 3D environment of Solid Edge delivers the ability to design, simulate and manage design data, and also includes synchronous technology that enables quick revisions and easy re-use of design data, features that NGCT Cleansys required to improve design and production.

Today, NGCT Cleansys uses Solid Edge to create and release drawings with unique numbers that can be used by any of its vendors to manufacture components with correct dimensions. The design team

models standard subassemblies using Solid Edge standard assembly modeling commands. The release and tracking of drawing revisions is carried out automatically, and leads to substantial time savings.

“With Solid Edge synchronous technology, we’re no longer faced with the problem of releasing and tracking drawing revisions,” says Vinay Anagol, managing director and chief technical officer at NGCT Cleansys. “Solid Edge allows us to review our designs, eliminate any errors in design before production, and thus avoid major rework,” adds Sushilkumar, general manager operation and engineering.

“The use of Solid Edge to manage the entire product lifecycle delivered the expected good results. We are excited about the new product development with a drastic reduction of errors, costly rework and timelines.”

Sushilkumar
General Manager Operation and Engineering
NGCT Cleansys

Solutions/Services

Solid Edge
www.siemens.com/solidedge

Customer's primary business

NGCT Cleansys designs, manufactures and supplies cleaning and degreasing equipment with aqueous and solvent-based technologies. Its products include single and multi-chamber, multi-process systems, tunnel washers and vacuum assisted solvent systems in standard and tailor-made versions.
www.ngctpl.com

Customer location

Pune
India

Partner

3D Engineering Automation
LLP
www.3dengg.com

The measurable advantages of Solid Edge are clearly apparent at NGCT Cleansys. After the implementation of Solid Edge at NGCT Cleansys, the rejection rate of components and rework have been reduced, and productivity and delivery time have improved significantly.

"Using Solid Edge to manage the entire product lifecycle delivered the expected good results," says Sushilkumar. "We are excited about the new product development with a drastic reduction of errors, costly rework and timelines."

"Solid Edge allows us to review our designs, eliminate any errors in design before production, and thus avoid major rework."

Sushilkumar
General Manager Operation and Engineering
NGCT Cleansys

Siemens PLM Software

Americas +1 314 264 8499
Europe +44 (0) 1276 413200
Asia-Pacific +852 2230 3308

www.siemens.com/plm

© 2018 Siemens Product Lifecycle Management Software Inc. Siemens, the Siemens logo and SIMATIC IT are registered trademarks of Siemens AG. Camstar, D-Cubed, Femap, Fibersim, Geolus, GO PLM, I-deas, JT, NX, Parasolid, Simcenter, Solid Edge, Syncrofit, Teamcenter and Tecnomatix are trademarks or registered trademarks of Siemens Product Lifecycle Management Software Inc. or its subsidiaries in the United States and in other countries. AutoCAD is a registered trademark of Autodesk, Inc. All other trademarks, registered trademarks or service marks belong to their respective holders.
64929-A10 4/18 A