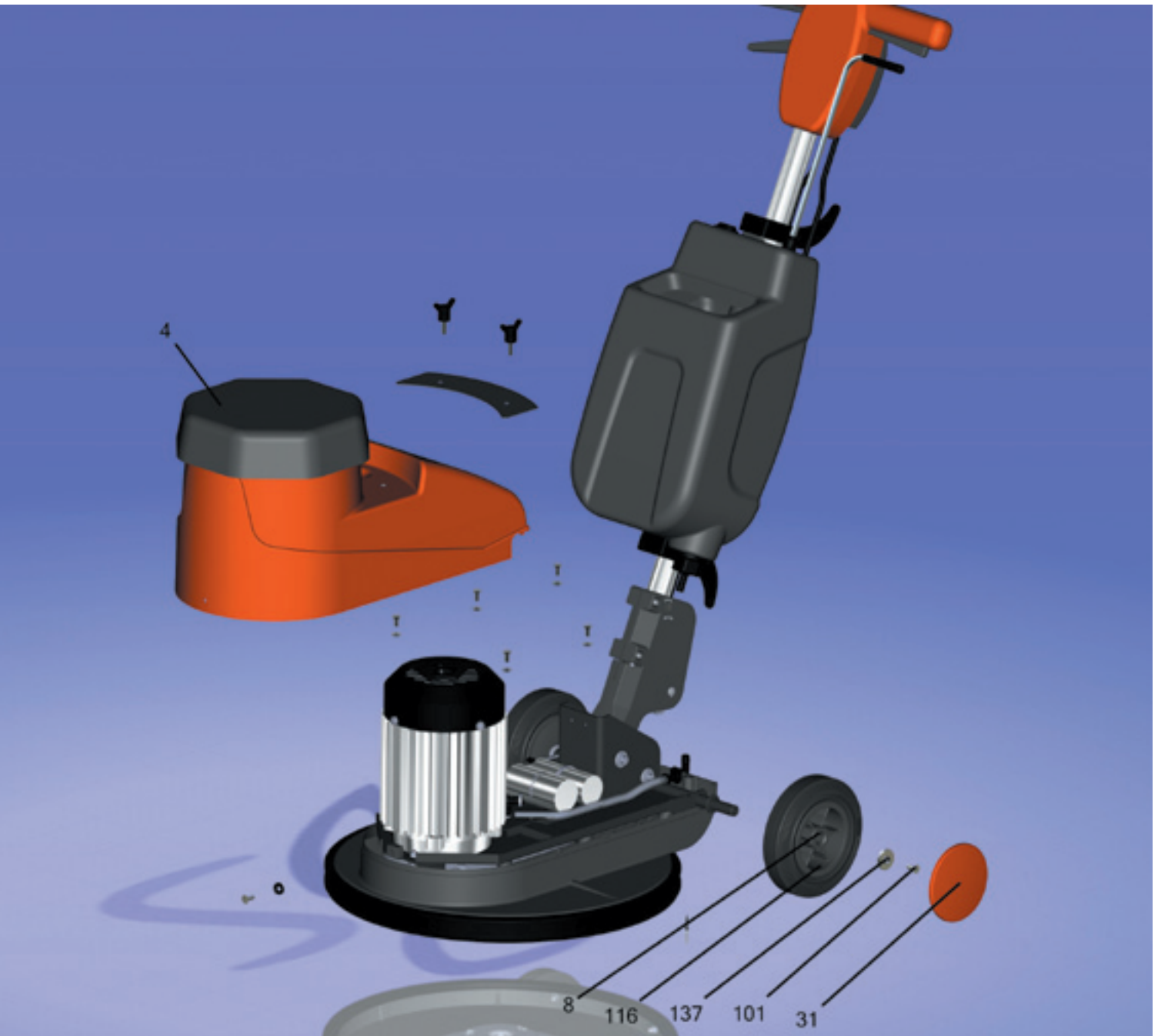


Roots Multiclean Limited

Industrial Equipment Case Study



Challenge

Indian floor cleaning equipment leader Roots Multiclean Ltd. (RMCL) needed to streamline its documentation process and produce more realistic and clearer documents for its customers and staff.

Solution

Roots Multiclean Ltd. chose Dassault Systèmes' 3DEXPERIENCE Platform and 3DVIA, the application for 3D Communication.

Benefits

The user experience for customers and RMCL employees has improved significantly now that the company can create realistic documentation using its own up-to-date 3D design data.

Clean sweep for documentation with 3DEXPERIENCE Platform

A homemaker in New Delhi vacuums the living room with her new Supervac lightweight vacuum cleaner. A janitor in Mumbai cleans a classroom with a Wizzard cleaning machine. An industrial cleaner in Bangalore uses the RootsScrub to scrub and dry 5000 square meters of floor space. When Indians turn on a cleaning machine, more often than not, it comes from Roots Multiclean Ltd. (RMCL), the country's leading cleaning equipment manufacturer.

RMCL dominates and retains its market leadership by constantly introducing new products and improving the product range. "Our customer's value quality, reliability and ease of use," said C.M. Vijay Ramesh, vice president Marketing & Exports, Roots Multiclean Limited. "We design machines that are suitable for the Indian user-style, which is why they must be simple to operate and maintain. Consumers expect the machine to function. No hassles, no complications, it simply has to work. For after sales support, customers have at their disposal an extensive service network."

Intuitive and vibrant documentation

RMCL wanted to improve its documentation process and produce better, simpler documents for its customers and staff. "Our earlier method of creating documents was time consuming," Ramesh said.

The company opted for Dassault Systèmes' 3DEXPERIENCE Platform and 3DVIA for 3D Communication. The application enables RMCL to repurpose its existing 3D design data to rapidly create and update high quality product deliverables. "We brought this activity in house and use our own most recent 3D models for our manuals and marketing materials. We save time this way and if our designs change, we know that our documentation will be up to date as well."

After some brief training with a 3DS partner, RMCL engineers can now create high quality documentation. They capture CAD data from multiple sources, such as SolidWorks for 3D design, and incorporate it in the company's product manuals and catalogs.

"With our previous method, we relied on the use of static photos and drawings and the resolution was not very good," Ramesh said. "Now our illustrations are more vibrant and closer to the real thing. Whether we need to create high-quality raster images, vector line art, or interactive product animations, the resulting materials will be as stunning and as realistic as the original designs."

The user experience for RMCL's marketing and sales team has also improved. Customers have noticed that their instruction manuals are intuitive and easy to understand, and they have let RMCL know. "They have expressed their satisfaction," Ramesh said.



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**C.M. Vijay Ramesh, Vice president Marketing & Exports
Roots Multiclean Ltd.**

Ruediger Schroeder
President & CEO



Focus on Roots Multiclean

Roots Multiclean Ltd. (RMCL) is a joint venture with Hako Werke GmbH., Germany, a globally renowned manufacturer of cleaning equipment. RMCL has state-of-the-art ISO 9001, 14001 & 18001 certified modern factories, producing world-class floor cleaning equipment that includes automatic scrubbers, manual sweepers, vacuum and carpet cleaners, and centralized dust collection systems for professional usage. Its products are built around eco-friendly concepts and comply with international quality and safety norms. RMCL has grown into India's leading cleaning equipment manufacturing and has a significant global market presently exporting to countries such as the UK, USA, Japan, Germany and Australia.

For more information
www.rmclindia.com

Future uses, new advantages

With six production lines currently in operation in India, RMCL plans to double its capacity in the near future. This will generate new documentation needs for assembly and disassembly sequence instructions and for training of plant personnel. "Assembling products in our factory should not be an obstacle course because this will invariably create bottlenecks and delay their release on the market," Ramesh said.

"We will soon evolve the way we use 3DVIA. In addition to creating maintenance manuals for our catalogs and sales and marketing documentation, we will extend this technology to our more production-oriented documentation needs. We want all documentation to be as clear and as straightforward as possible," Ramesh said. "With 3DVIA, we can produce documentation that is visual, clear and adapted to any audience. It helps our plant workers produce the best products."



Delivering Best-in-Class Products



Virtual Product



Information Intelligence



3D Design



Virtual Planet



Realistic Simulation



Dashboard Intelligence



Digital Manufacturing



Social Innovation



Collaborative Innovation



3D Communication

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 150,000 customers of all sizes, in all industries, in more than 80 countries. For more information, visit www.3ds.com.

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