



The Digital to Physical Product Lifecycle Company



Dorman Products Case Study

Learn how Dorman Products used the Creaform HandySCAN to save 6 hours per project without compromising accuracy.

The Challenge: New Team Ramp Up & Immediate Project Impact

Michael Menta, Director of Engineering at Pennsylvania-based Dorman Products, Inc. was looking to expand 3D Scanning and Reverse Engineering throughput in support of new aftermarket product development initiatives between offices. According to Menta, that came down to equipping each with tools and software. But the cost and ramp up time for learning a more traditional scanning solution was problematic, especially for a team that hadn't done it before. Menta would have to build a case for it.

The HandySCAN Solution

Because the team at Dorman headquarters had been using the tripod-mounted Konica Minolta scanner for its work, Menta thought that it would probably be the solution for different offices as well. But he was hesitant to send a 4-year-old piece of equipment with a large learning curve to other teams. However, after seeing a demonstration of the HandySCAN by Adaptive at SOLIDWORKS World last year, he was willing to give it a try. Before he experienced it himself, Menta thought a handheld wasn't an option due to the accuracy he required. "And 4 years ago, that was the case," he said. After a demonstration, he was convinced. "It completely changed my entire approach and strategy."



Key Challenges

- Finding an affordable, accurate scanning tool for its reverse engineering OEM projects.

The HandySCAN Solution

- The Creaform HandySCAN sold by Adaptive Corporation is both cheaper and more accurate than other tri-pod mounted scanners.
- The HandySCAN has a short ramp up time from learning to using.

Results

- A 5-6 hour reduction time per project through a combination of reduced scanning time and reduced post-processing time.

“ We’re getting scans quicker and it doesn’t take as much time to post-process them. ”

Michael Menta,
Director of Engineering,
Dorman Products, Inc.



On top of it, the **HandySCAN was cheaper.**

The HandySCAN is Creaform's flagship metrology-grade handheld scanner. It delivers high quality 3D scans of products via a highly portable unit. "The speed in which it captures the data is just remarkable," said Menta. Dorman is able to get the same accuracy it needs (to 1/1000th of a percent) essentially the same as what they were getting with a tripod mounted scanner. For their purposes the quality was superb but the accuracy and speed at which they could deliver the results was paramount during the testing. "We're getting scans quicker and it doesn't take as much time to post process them," said Menta. When compared to the Range 7, the Konica Minolta, the quality of the mesh from the Creaform was "night and day" said Menta.

Further, the relative short time that it takes to become adept at using the product was another boon. Because Menta was able to learn the device relatively quickly, even getting a good handle on it during the demonstration, he was confident the rest of the team would get up to speed just as fast. "Rather than continuing to use a 4-year old machine (the Konica Minolta), that requires extensive training for each new user and is not an intuitive tool by any means, this was clearly a better solution," said Menta.



The Solution

After implementation of the HandySCAN, Dorman Products was able to save five to six hours on average per project through a combination of reduced scanning time and reduced post-processing time.

This equated to three weeks' worth of savings during the current project list. "It's pretty substantial," said Menta.

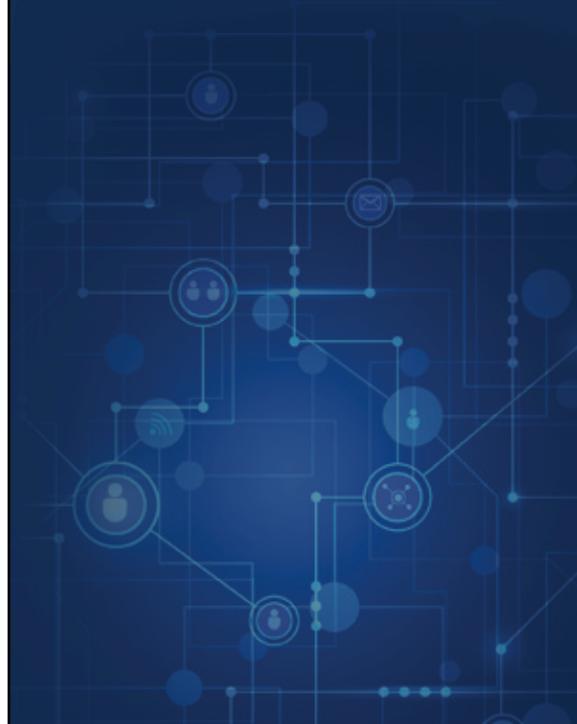
About Dorman Products

Dorman Products, Inc. is a leading supplier of dealer exclusive automotive replacement parts, automotive hardware, brake products, and household hardware to the Automotive Aftermarket and Mass Merchandise markets based out of Colmar, Pa. with offices in both North America and China. It specializes in reverse-engineering failure-prone OEM parts.,



“ Up until then, I didn't think handheld had the accuracy, the resolution, the quality, that the tripod-mounted scanners have... But now I know that isn't the case. ”

Michael Menta,
Director of Engineering,
Dorman Products, Inc.



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Successful delivery of a product to a customer is no longer a linear process. It needs to be a collaborative experience that empowers everyone to contribute the right information at the right time, eliminating the friction caused by traditional approaches with disparate tools and systems. Adaptive enables innovation by applying technology to streamline business processes, reduce costs and improve efficiencies.



Overview

Adaptive's growth is powered by working closely with its 500+ customers to understand their business challenges and deliver the necessary software, hardware, and professional services to address them. Our customer base includes leading discrete and process manufacturers of industrial and consumer products and the suppliers that provide the underlying sub-systems.

Adaptive's unique "Digital to Physical" product portfolio includes CAD/CAM, CAE, PLM, business analytics, metrology, and 3D printing solutions from leading IT providers such as Dassault Systèmes, Creaform, and Markforged. When companies partner with Adaptive, they are able to reduce costs and cycle times throughout product planning, development, manufacturing, and after-market service. Additionally, the Adaptive offering drives our customer's revenue growth by enabling pursuit of new markets, more opportunities, and/or product line expansion.



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