

VDURA for Manufacturing

Enhance design and engineering efficiency with robust data management, unmatched durability, and seamless scalability.

Introduction

In the competitive landscape of manufacturing, speed, efficiency, and robust technological infrastructure are paramount. Manufacturers cannot afford subpar data management and storage systems, especially when dealing with the design and engineering of complex products and systems. The ability to handle huge volumes of test and simulation data is critical. The VDURA Data Platform delivers on all fronts, ensuring that manufacturing operations run at peak efficiency with no downtime, providing the best reliability, durability, and performance.

Manufacturing data solutions – evolved

The VDURA Data Platform enables manufacturers to optimize their data infrastructure by excelling in five key areas.

1. The gold standard in reliability and durability

Rest easy with enhanced data protection and boost productivity with maximum system availability. Integrated safeguards protect against data loss, corruption, and service interruptions. VDURA prioritizes the highest availability and rapid recovery, maintaining mission-critical manufacturing operations without ever compromising performance.

2. Infinitely scalable performance and capacity

Accelerate your design and engineering workflows with a balanced parallel architecture that delivers infinitely scalable performance and capacity. VDURA's architecture ensures low latency and high-throughput performance required by simulation and testing applications, enabling seamless scaling without manual tuning, thereby supporting the growing data demands of manufacturing processes.

3. A simple storage experience

Consolidate diverse manufacturing workloads on a single solution with easy, centralized storage management and a minimal learning curve. A single storage admin with no specialty HPC storage knowledge can easily oversee a VDURA environment at any scale, making it ideal for manufacturing applications that require quick adaptation and minimal downtime.

4. Intelligent data management

Unlock insights and mobility at scale for smarter decision-making. The VDURA Data Platform's discovery and movement tools enable manufacturers to search and analyze their files so they can mobilize them exactly where and when they are needed, enhancing the efficiency of design, testing, and production processes.

5. Best-in-class TCO

VDURA's parallel architecture seamlessly blends storage media, enabling the highest performance flash tier along with the lowest cost HDD tier, complemented by automated data placement and a unified management plane. This versatile approach allows manufacturing organizations to optimize storage solutions that meet their evolving infrastructure requirements without straining budgets or overprovisioning resources.

Manufacturing use cases

VDURA partners with industry leaders to transform their data into powerful manufacturing outcomes. We have proven experience in the following mission-critical use cases.

Design and engineering of complex products

Support for the design and engineering of complex products and systems, which require high-capacity, low-latency storage solutions to handle vast datasets efficiently. VDURA ensures seamless scalability and performance, enabling faster iteration and innovation.

Test and simulation data

Enhance the handling of test and simulation data with VDURA's reliable and scalable data platform, allowing manufacturers to process and analyze large volumes of data quickly and accurately, leading to more informed decision-making.

Supply chain optimization

Support the optimization of supply chain operations with a robust data infrastructure that ensures real-time data processing and high availability, critical for the functionality and efficiency of supply chain management systems.

Quality control and predictive maintenance

As manufacturing operations expand, VDURA provides a durable and adaptable data platform that optimizes quality control and predictive maintenance workflows, ensuring these applications run smoothly and efficiently.

About VDURA

VDURA elevates manufacturing data storage and management with a powerful and flexible Data Platform that delivers an unparalleled blend of performance, durability, and reliability.