

Manufacturing | Italy

Enabling round-the-clock manufacturing

Artec Pneumatic

To avoid pausing its production lines when carrying out IT maintenance, Artec Pneumatic moved to a hyperconverged infrastructure solution based on Proxmox Virtual Environment and Lenovo ThinkSystem SR650 V3 servers powered by 4th Gen Intel® Xeon® Scalable processors—boosting availability and performance for key business workloads.



1

Customer background

Who is Artec Pneumatic?

Headquartered in Cento, Italy, Artec Pneumatic has been designing, manufacturing, and distributing pneumatic cylinders for use in global industrial processes for over 40 years. With a highly automated production line, the company is certified to ISO 9001 for quality management system, ISO 14001 for environmental management systems, and ISO 45001 and workplace safety.

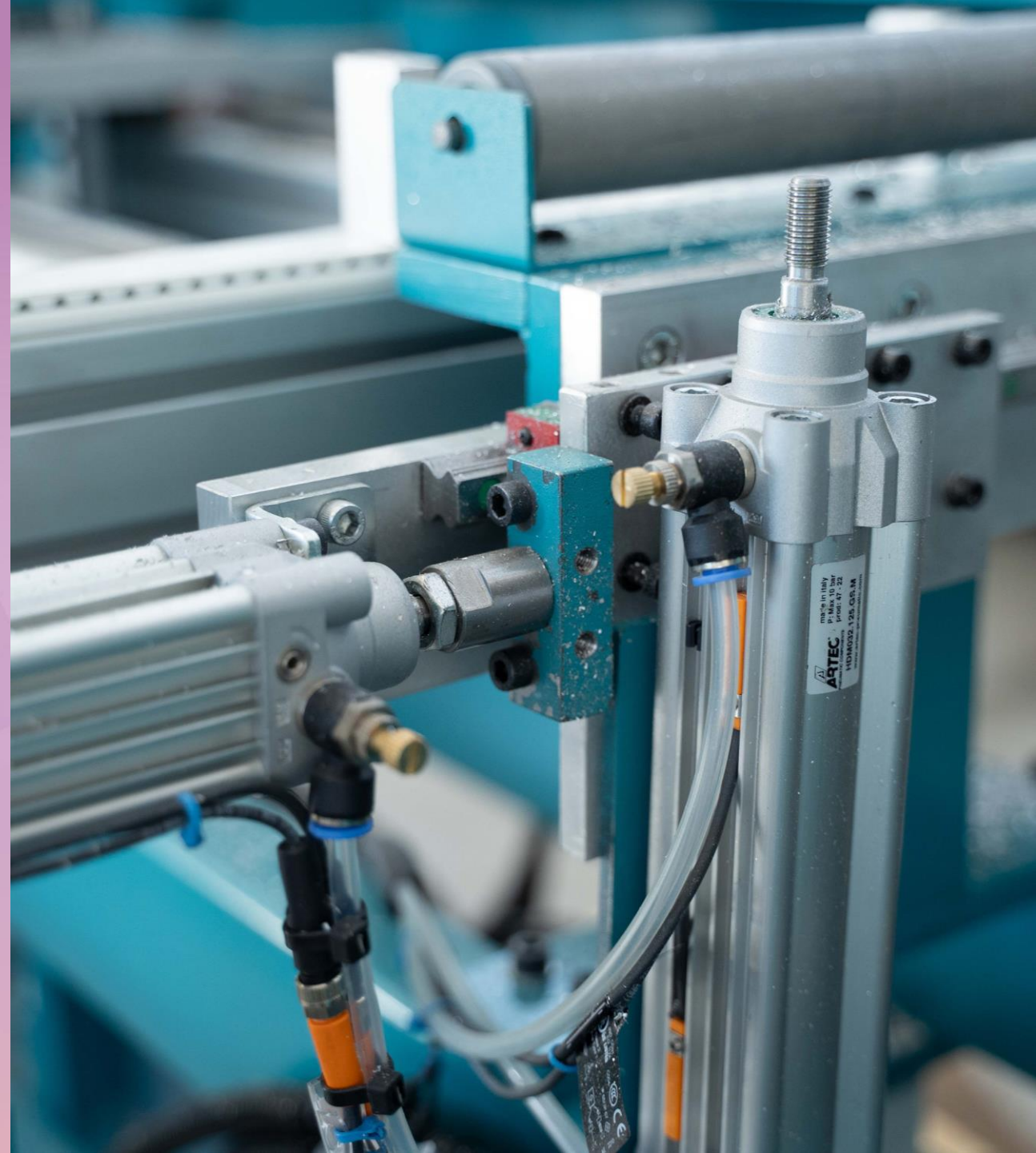


2 The challenge

Artec Pneumatic supplies industrial businesses all around the world with precision-engineered pneumatic cylinders. The company is continually innovating and expanding—launching new products and scaling out its manufacturing to increase production.

Claudio Gallerani, CEO at Artec Pneumatic, says: “We aim to deliver high-quality products rapidly and in an environmentally sustainable way. Digital technology plays a key role in helping us to achieve these goals: from our computer-aided design tools to automated manufacturing control systems.”

As Artec Pneumatic's IT infrastructure neared end-of-life, the company saw a significant drop in performance for key business systems. To enable continued growth, the company decided to refresh its aging server and storage hardware.



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“Our aging IT systems required more and more maintenance as time went on. As our **maintenance windows grew longer and more frequent**, we also were forced to **pause our manufacturing lines for extended periods**. To solve that challenge, it was vital to find a reliable and highly available solution.”

Alberto Fortini

Marketing and Sales Manager, Artec Pneumatic

Deploying a HCI solution

Working with its trusted technology partner MegaByte Sistemi Informatici, Artec Pneumatic decided to replace its existing on-premises VMware environment with a new, more cost-effective hyperconverged infrastructure (HCI) solution.

Based on the open-source Proxmox Virtual Environment virtualization platform deployed on high-performance Lenovo ThinkSystem SR650 V3 servers, the new solution offers the flexibility, scalability, and availability for long-term growth.

Hardware

Lenovo ThinkSystem SR650 V3 powered by 4th Gen Intel® Xeon® Scalable processors

Software

Proxmox Virtual Environment

Services

Lenovo Extended Warranty
Lenovo Premier Support for Data Centers – Essential Service



What's more, powered by 4th Gen Intel® Xeon® Scalable processors with built-in accelerators that help improve performance efficiency, the Lenovo servers offer top-notch performance.

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The
solution

Minimizing downtime risks

By moving to a modern HCI platform built on Lenovo, Intel, and Proxmox technology, Artec Pneumatic has made lengthy maintenance windows a thing of the past.

“By steering us to Lenovo and Proxmox, MegaByte helped us find the perfect solution to optimize performance and uptime in our data center without sending our costs soaring,” says Rita Silvestri, Marketing Specialist at Artec Pneumatic. “MegaByte now handles the management of our IT infrastructure from the operating system level up, while Lenovo provides support for the underlying hardware—the collaboration between the two companies is seamless.”

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“We were delighted with how **quick and easy it was to deploy** the new HCI solution. Within a couple of hours, we had everything up and running. Today, we run our core systems across three Lenovo ThinkSystem SR650 V3 servers connected to a central Ceph storage platform.”

Claudio Gallerani

CEO, Artec Pneumatic

4 The results

With the HCI solution from Lenovo and Proxmox as the foundation for its business systems, Artec Pneumatic has dramatically reduced the need for downtime during system updates and maintenance. At the same time, the organization is seeing a substantial improvement in application performance.

“When MegaByte is performing maintenance on our systems, it’s basically invisible to our business users,” confirms Gallerani. “What is evident, though, is the increased performance of the new HCI solution. With the Lenovo, Intel, and Proxmox solution, we’ve boosted our application response times by up to 40% in some cases.”¹



Deployed within a matter of hours



Minimizes downtime for business applications



40% boost in performance for core business systems

¹ Data provided by Artec Pneumatic

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“We can’t fault the build quality or performance of our Lenovo ThinkSystem SR650 V3 servers. Our HCI solution gives us a strong, stable technology platform to innovate and grow our business for years to come.”

Claudio Gallerani

CEO, Artec Pneumatic



Why Lenovo?

Artec Pneumatic was impressed by Lenovo's proactive approach to infrastructure monitoring, as well as its tailored support services.

“When MegaByte presented the capabilities of the Lenovo solution, we felt confident that we were getting an advanced, high-quality infrastructure solution,” recalls Gallerani. “We also liked the scalability of the Lenovo ThinkSystem SR650 V3 servers, which will help us support continued business growth.”

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“At MegaByte, we specialize in **bringing innovation and performance to the data center**. For clients like Artec Pneumatic that depend on round-the-clock access to their digital systems, we know we can trust Lenovo solutions to deliver **high levels of reliability and performance**.”

MEGAByte
SISTEMI INFORMATICI

Alessandro Gennari

CTO and Co-Founder, MegaByte Sistemi Informatici

How can manufacturers minimize production downtime?

With a HCI solution based on Lenovo and Proxmox technology, and powered by 4th Gen Intel® Xeon® Scalable processors, Artec Pneumatic can keep its manufacturing processes rolling 24/7. That's the power of Intel Inside®.

Explore Lenovo ThinkSystem Solutions



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