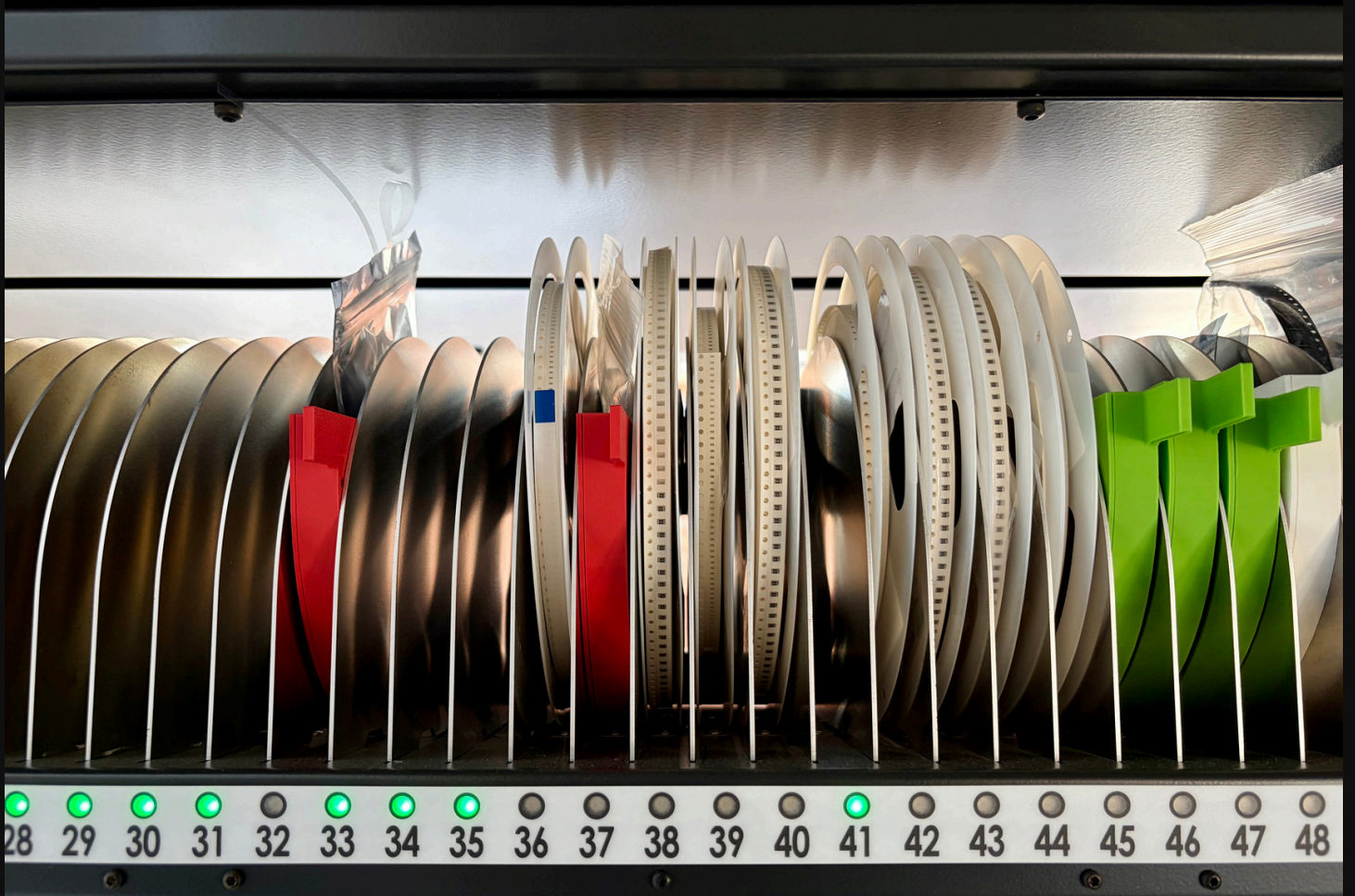




+Smart -Storage



SMART STORAGE SOLUTIONS

Efficiency Made in Italy

ARCADIA ECOSYSTEM

ARCADIA ECOSYSTEM CONSISTS OF:



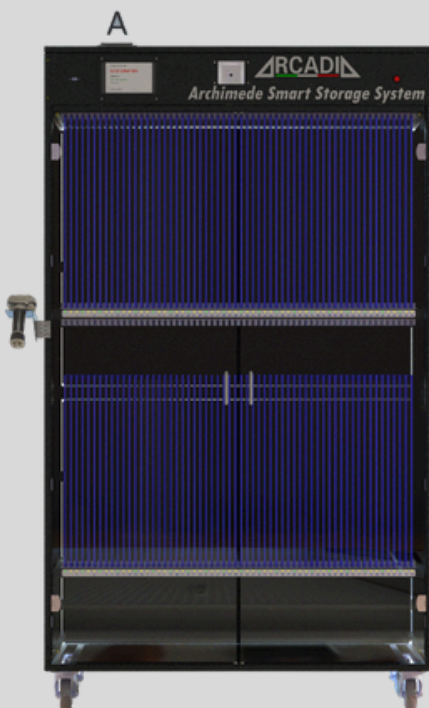
GALILEO INCOMING SYSTEM

**ARCHIMEDE SMART
STORAGE SYSTEM**



ARCHIMEDE SMART CART

**ARCHIMEDE STENCIL
STORAGE SOLUTION**



ARCHIMEDE SMART BARS



ARCADIA ECOSYSTEM

THE ARCADIA ECOSYSTEM: FROM WAREHOUSE TO PRODUCTION LINE

Every reel or other component that enters production follows a precise path. At every stage of this journey, an Arcadia solution ensures traceability, material protection, and operational efficiency from the first to the last meter.

INCOMING AREA

Reels and other components are received, inspected, identified, and registered by **Galileo Incoming System**, ensuring full traceability from the very first moment and preventing errors downstream.

CENTRAL WAREHOUSE AREA

Once registered, material is stored in the central warehouse, managed by **Archimede Smart Storage System**. Each reel or component is scanned, via camera or 2D scanner, and guided to a free storage location, highlighted by LEDs. Sensors manage placement and retrieval automatically, making every pick fast, tracked, and error-free.

SETUP AND KITTING AREA

When the distance between the central warehouse and the production setup area makes it beneficial, material can be transferred into **Archimede Smart Cart**, a mobile, intelligent cart that brings stock closer to the workstation, reducing downtime and unnecessary operator movement.

SIDELINER RACKS (LINE-SIDE)

Close to the line, a second **Archimede Smart Storage System** deployment ensures storage continuity and immediate material availability, closing the loop between the central warehouse and the production station. Every pick is tracked in real time, driven by P&Ps and full visibility over inventory status across the entire process is always provided.



NEW

**SAME EFFICIENCY,
GREATER CAPACITY**

REGULAR



LARGE



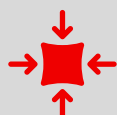
X-LARGE



NEW VERSION: ARCHIMEDE SMART STORAGE SOLUTION 2.0

Archimede 2.0 is the evolution of our intelligent vertical storage system: the same reliability and the same footprint, now with doubled storage density and lower power consumption. Thanks to dedicated expanders and adapters, it is also more configurable than ever.

COMPACT



CUSTOMIZABLE

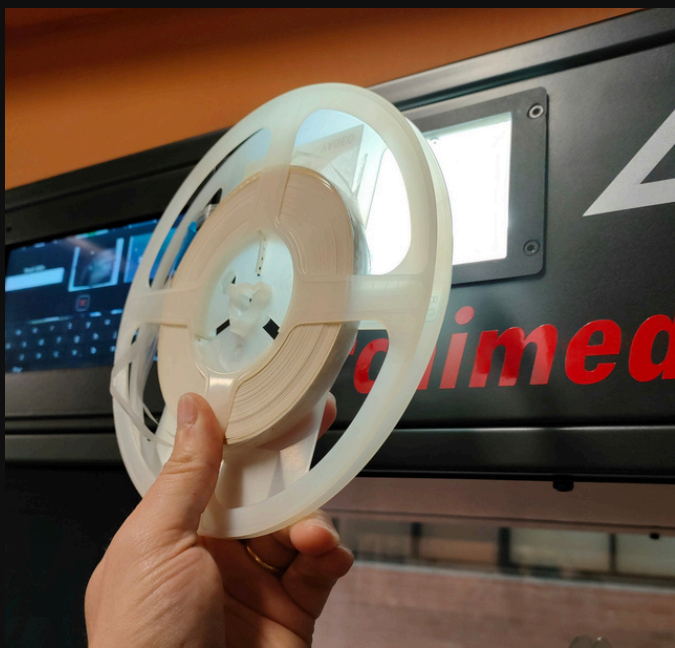


SMART



EFFICIENT





REDUCE SUPPLY TIME, ERRORS, AND COSTS WHILE OPTIMIZING SPACE AND PRODUCTIVITY.

MAIN FEATURES

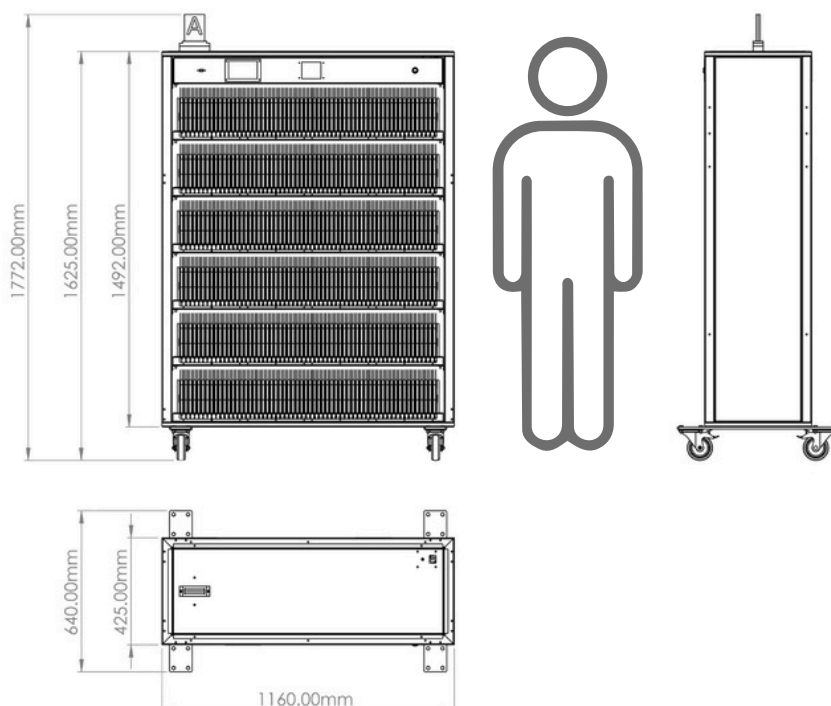
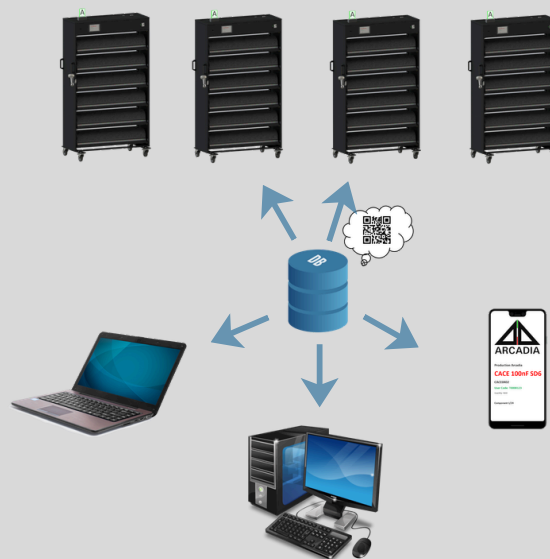
- Optimized for SMT reels, tubes, trays and cut tapes
- Streamlines the flow of components between warehouse and production
- **Saves floor space:** up to 1200 reels stored in 0,45 m²
- **Reduces kitting time:** modular and flexible, offers versatile configuration and application, extending the benefits of automation from simple storage to more complex goods handling operations such as picking, kitting and refilling etc.
- **Time saver:** 5 seconds reel storage time and less than 3 seconds retrieval time
- BOM management and FiFo functions for easy production control and optimization: residual quantity, real time stock situation, warnings, humidity and expiring data tracking
- **Ind. 4.0 ready:** full traceability, easy link with factory MRP software, custom solution for P&P software
- **Sensors** and **RGB LEDs** on each position for **automatic** reels location and multiple operators usage
- **5"** inches full color **touchscreen** display and 2D barcode scanner

MAIN IMPROVEMENTS

- New electronics & power management: ≤60 W consumption, greener design
- Reduced dimensions & double expander option: up to 1,200 reels
- Improved shelves: reinforced with aluminium dividers
- 15" x 2 double-sided reels: front and rear loading for higher density

SOFTWARE PROPERTIES

- A single software to manage all the racks/shelves
- Easy to use production list creator / import production list from **BOM or P&P file**
- **Presence check** of all components necessary for production based on quantity of boards to be assembled
- Selectable reels finder mode:
 1. Light up simultaneously all the components to be picked up
 2. Sequential light up according to the chosen criteria (FiFo, expiration date, residual components quantity etc.): display shows the next component to be picked up
- **Import of reel's data** from generic files (e.g.csv generated from management software, purchase orders, delivery note, etc.)
- **Customers/Suppliers manager** function for reels/production lists
- **Operator manager** function: each action is associated with operator who performed it



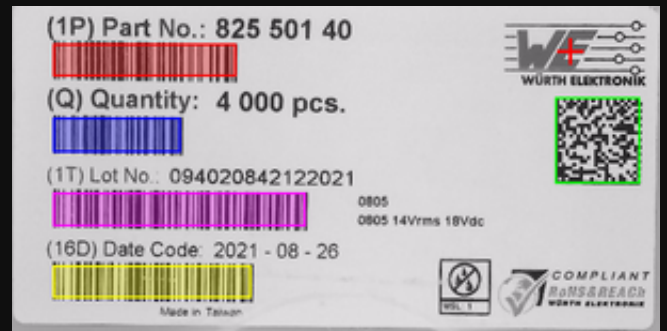
SMART OPERATIONS

- **Full sensorized** positions to prevent picking/storage errors. **RGB LEDs** show status for each position
- Real time detection of picking errors
- Touchscreen display for local operations and view reels info
- Barcode scanner
- Smart camera
- Ultra-fast “Scan&Place”, just scan the UID and place wherever you like
- **Space saver**: reels can be placed in any empty housing suitable for their sizes
- System can be used close to P&P/feeders. Reduces changeover/setup time and errors.
- Aluminium dividers

NEW

SMD bag separators: dedicated support for storing sealed component bags directly on the shelf





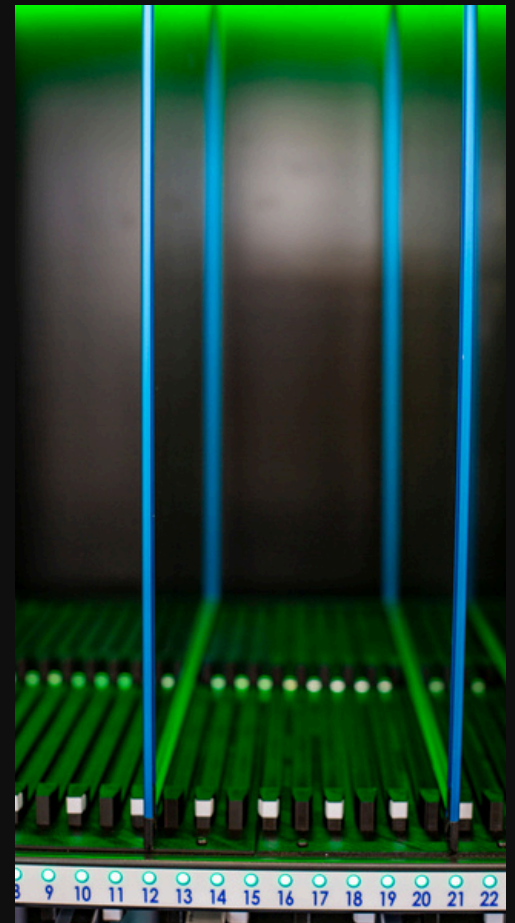
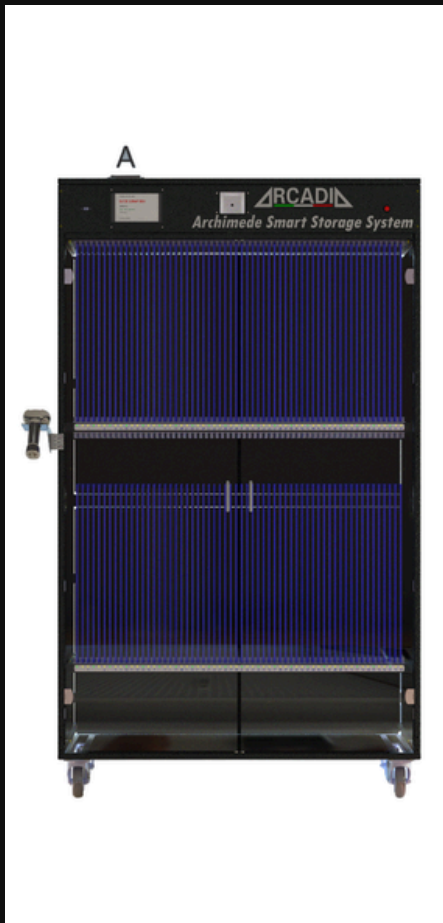
GALILEO INCOMING SYSTEM

The Galileo Incoming System **speeds up** and **simplifies** the **registration** of incoming components.

By automatically reading 1D and 2D barcodes (QR and DataMatrix), it **identifies and catalogs data** according to each manufacturer's standards. The software then creates a **unique code** for every component and **prints a dedicated label**, ready to be used with the Archimede system, saving time and eliminating errors from manual labeling.

FEATURES

- Dual touch **monitors**
- Label **printer** included
- High-resolution **camera** that recognises all types of barcodes
- **OCR** based registration for non-barcoded materials
- **2D scanner** included in the set



ARCHIMEDE STENCIL STORAGE SOLUTION

The Archimede Stencil Storage Solution provides a solution for organising your stencils, so that they are **protected, tidy** and **efficiently stored**.

The type of stencils you use is not relevant, Archimede stores **any type**.

Stencils can be added to your **BOM** and **requested remotely** during the setup phase. **Multiple operators** can simultaneously locate the stencils they need, as they will be identified by different **RGB LEDs** within the Archimede Stencil.

FEATURES

- It stores **loose, framed**, in **cartons**, or **DEK VectorGuards** stencils
- It holds up to **240 unframed stencils** or or **120 VectorGuard** stencils
- **Glass doors** for the protection of the stencils



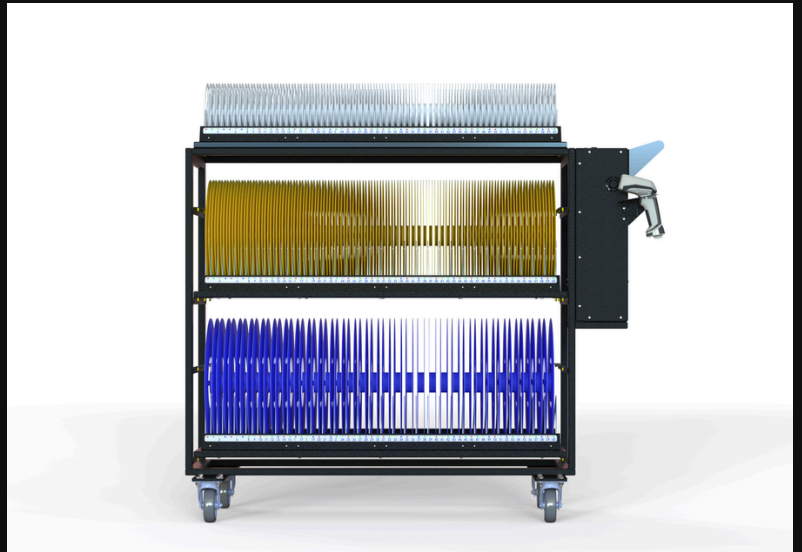
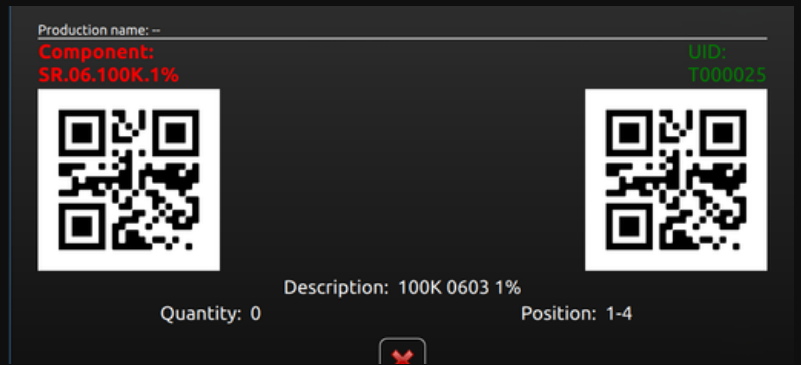
ARCHIMEDE SMART BARS

Archimede Smart Bars turns your shelves into a **pick-to-light system**, ensuring **complete traceability** of every material.

Their modular design **adapts to any warehouse layout**, while native connection to the Archimede software keeps materials organised and processes optimised. From reception to production, you'll always know where your components are, with seamless data synchronisation and an easy plug-and-play experience.

FEATURES

- **Natively connected, intelligent, and configurable**
- **Industry 4.0**
- The **dimensions** of the bars are **customizable** based on your needs
- Managed through **PDA** for constant control



ARCHIMEDE SMART CART

Our Smart Cart, seamlessly connected to the Archimede system, makes **component transfer effortless**. Guided by sensors and **RGB LEDs**, operators can quickly collect the illuminated components in the warehouse and place them on the cart. Once in the setup area, the **long-lasting battery** and **touchscreen display** support sequential picking, showing all component data step by step. The result: faster and more accurate setup preparation, eliminating the risk of errors and wasted time.

FEATURES

- **2D scanner** included in the set
- Fully **customizable shelves**
- **Wheels** for easy transfer
- **Battery** with up to 9 hours of autonomy
- **Smart camera** fully integrable with the Archimede and Galileo systems

**QUALITY.
EFFECTIVENESS.
EFFICIENCY.
RELIABILITY.**

*Our commitment to excellence turns
technology into tangible results for your
production.*

DISCOVER MORE:

WWW.ARCADIASRL.IT



+39 0187/961479
+39 347/2451038

info@arcadiasrl.it

Viale Monzone 123,
54033 Carrara (MS)



+Smart -Storage

