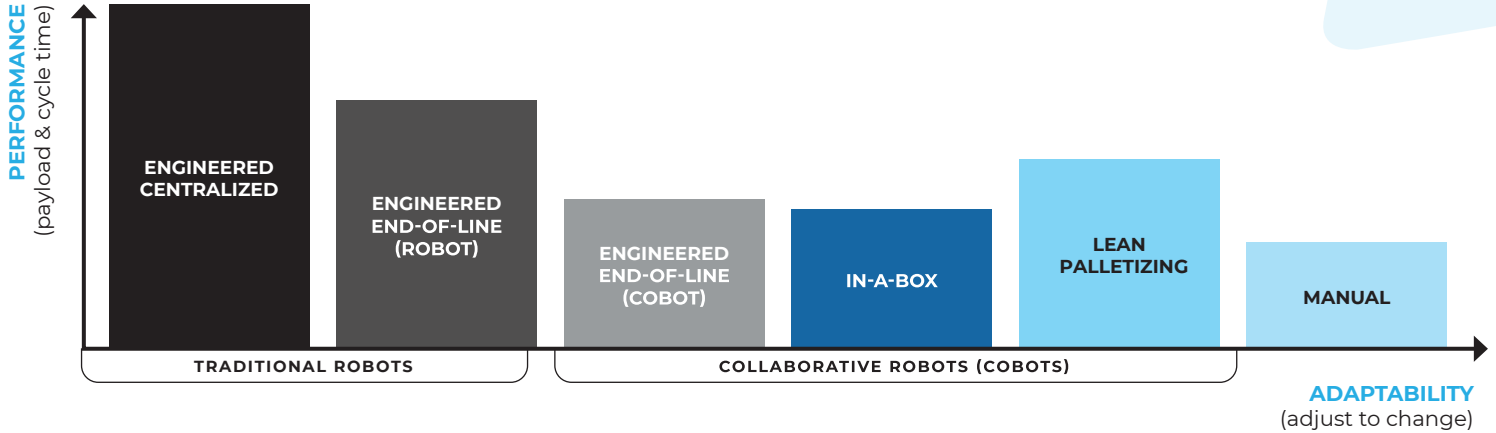


THE AUTOMATED PALLETIZING SOLUTION LANDSCAPE



CENTRALIZED PALLETIZING vs. END OF LINE PALLETING

Centralized palletizing is a system designed for efficiency and high throughput, ideal for handling large volumes of products from multiple production lines. However, they can act as a “monument” within the factory, setting requirements and imposing limitations on the larger factory layout and systems

These systems offer flexibility & adaptability, integrated at the end of each production line. This approach is less complex, requires lower initial investment, is easily adaptable to different product types & packaging changes.

PALLETIZING WITH TRADITIONAL ROBOTS vs. PALLETIZING WITH COLLABORATIVE ROBOTS vs. PALLETIZING W/ MANUAL LABOR

Traditional industrial robots represent the traditional choice for high-speed, high-volume palletizing tasks. Operating in large dedicated spaces, they excel in handling large volumes rapidly & can manage heavier loads, offering durability & reliability for continuous operation.

Smaller, more adaptable, & user-friendly than traditional robots, cobots offer flexibility & adaptability, being easily reprogrammable for different tasks. Their design allows for safe human coexistence without extensive safety barriers, & they are typically more affordable & space-efficient than traditional robots.

Where workers handle & stack products, is highly flexible & requires a low initial investment but is slower, also poses health risks, & can incur higher long-term costs.

CUSTOM ENGINEERED SOLUTIONS vs. PRE-ENGINEERED SOLUTIONS

Systems tailored to specific operational needs, offering optimized performance for specific use cases. However, they involve higher costs & longer implementation times due to specialized design & engineering. They also rely heavily on the provider’s expertise & can have uncertain ROI, particularly if project requirements change during development.

Standardized, off-the-shelf systems designed to be optimized for a specific application. These solutions are typically developed based on a range of common industry requirements & are quicker to implement. They may not perfectly fit the specific needs of unique operations or niche applications, potentially requiring operational adjustments or compromises.

LEAN PALLETIZING SOLUTIONS

Lean Palletizing Solutions are built and operate using lean manufacturing principles. They leverage cobots built-in functions, intrinsic simplicity, and the possibility to integrate them seamlessly into existing layouts, keeping the operators in mind. Lean palletizing solutions use modularization of standard elements (like end-of-arm tooling, stands, slip sheet rack, etc.) to allow for efficient deployment while keeping enough flexibility to deal with the inevitable particularities of your factory and products.