



Plastic Concepts, Inc.

Knock-Down Totes

The Value of

KNOCK-DOWN TOTES

in Biotech Environments



Maximize Cleanroom Space



Reduce Return Costs



Flexible for R&D & GMP

The value of knock-down totes

Designed for Control, Efficiency, and Clean Operations

In biotech and biopharmaceutical facilities, material handling is closely tied to **process integrity, cleanliness, and operational efficiency**. From raw materials to samples and consumables, how items are stored, transferred, and returned matters. **Knock-down totes** offer a practical, engineered solution that aligns with the realities of biotech operations. Unlike rigid containers, knock-down totes are designed to **assemble for use and collapse when empty**, delivering measurable benefits in space management, logistics, and contamination control.

Maximizing Space in High-Value Facilities

Biotech facilities are space-intensive and costly to operate. Knock-down totes can collapse flat when not in use—reducing storage volume by up to **80%**. This allows labs and production areas to reclaim space, improve material flow, and reduce congestion without compromising storage capacity.

Supporting Clean and Controlled Workflows

Cleanability and inspection are critical in biotech environments. Knock-down totes can be fully disassembled, allowing for:

- Improved visual inspection
- More effective cleaning
- Reduced risk of residue or cross-contamination

This makes them especially well-suited for **R&D labs, GMP suites, and downstream processing areas**, where cleanliness is non-negotiable.

Reducing Logistics and Return Burden

Biotech supply chains often involve frequent material movement and return loops. Collapsible totes significantly reduce the volume of empty containers during return shipments—lowering freight costs, simplifying staging, and improving overall logistics efficiency while supporting sustainability initiatives.

Built for Flexibility in R&D and Manufacturing

Biotech operations evolve quickly. Knock-down totes offer the flexibility to scale up or down with changing workflows, batch sizes, or research demands. When not needed, they store compactly without disrupting validated spaces or layouts.

The PCI Perspective

At PCI, we design material-handling solutions that support **controlled environments, regulatory expectations, and real-world workflows**. Knock-down totes exemplify how thoughtful design can improve efficiency without compromising cleanliness, safety, or performance.

In biotech, smarter storage supports better science—and stronger operations.
