

Mini-Load Automated Storage & Retrieval Systems



- Mini-Load with Turning Satellite®
- Mini-Load without Turning Satellite®
- Mini-Load with Pin Extractor
- Mini-Load with Telescopic Shuttle Table

Finding The “Best Fit” AS/RS Solution For Your Business Is Our Goal

Westfalia engineers can design the optimum Mini-Load AS/RS for your business. Our focus is on fully meeting your needs through in-depth discussions, then designing and implementing systems for each specific facility. We guarantee our long-term solutions will help you reach your goals. We offer four designs which we can customize to maximize storage and fulfill your specific needs, be it for work-in-process, storage of parts, cases, cartons, totes, books, etc.

Traditional designs offer single-deep or double-deep tote/carton/tray storage in a condensed, automated system. **What sets Westfalia apart is our experience combining single, double and even multiple deep storage lanes in the same aisle.** Whatever your needs, we can design the “best fit” AS/RS for your business.

Key Features of Westfalia Mini-Load AS/RS:

- By **closing gaps in the flow of products**, clients achieve better operating results and meet just-in-time requirements. These increases in efficiency and productivity translate into decreased operating costs – a real boost to your bottom line.
- Westfalia offers traditional **single and double deep storage** for totes/cartons/trays, or a combination of both within the same aisle.
- Our **unique High Density Multiple Deep Mini-Load AS/RS** store up to 12 cartons/ totes /boxes in a storage lane. High density AS/RS are most useful when handling a smaller number of SKUs and can also be combined with single or double deep AS/RS in the same aisle.
- Utilizing our mini **Satellite® rack entry vehicle**, Westfalia designs are tighter and shorter, requiring less vertical space between racks than most other companies. This lower height requirement often permits 2 or more additional levels in the client’s Mini-Load AS/RS, allowing even greater storage capacity.
- **Maximize your AS/RS uptime** by placing 2 Storage/Retrieval Machines (S/RMs) in one aisle thereby providing full redundancy when maintenance is needed.
- **Allows “each pick” and “case pick”** order selection within the rack structure, with reserve storage above the pick tunnel.
- Our **Savanna.NET® Warehouse Management Software (WMS)** controls all the product flows, and seamlessly integrates with existing ERP systems. Even different types of loads can be made to converge in the order staging area, perfectly timed and accurately created.





1

4 Types of Westfalia Mini-Load AS/RS:

- 1 **Mini-Load with Turning Satellite[®]** - ideal for reaching both sides of an AS/RS aisle to store containers in single, double and multiple-deep configurations:

Westfalia's patented Satellite[®] rack entry vehicle, downsized for Mini-Loads, is available with both a turning and non-turning option. This turning option allows access to both sides of an aisle. The Mini-Load Satellite[®] handles up to four boxes or cartons at a time, with a maximum load capacity of 176 lbs. (80 kg.) Our flexible designs enable any combination of single, double or multiple-deep (up to 12 deep) Mini-Load systems to be serviced from one aisle.



2

- 2 **Mini-Load without Turning Satellite[®]** - useful when only one side of an aisle is used for AS/RS to store containers in single, double and multiple-deep configurations:

The Mini-Load without Turning Satellite[®] is designed to handle loads up to 176 lbs. (80 kg.) It too has our flexible design capabilities, enabling any combination of single, double or multiple-deep (up to 12 deep) storage services from one aisle.



3

- 3 **Mini-Load with Pin Extractor** - our tray handling system which can handle several small boxes, parts, etc. in one tray in a single-deep configuration:

Westfalia's Mini-Load with Pin Extractor has the advantage of handling trays with a maximum load capacity of 660 lbs (300 kg.) The tray dimensions can vary, as your needs require. This robust Mini-Load AS/RS can handle several boxes, parts, etc in one tray, providing very condensed storage.

- 4 **Mini-Load with Telescopic Shuttle Table** - ideal for storage of lighter loads in single and double-deep configurations:

This Mini-Load AS/RS utilizes a Telescopic Shuttle Table and is capable of handling standard load weights of 110-176 lbs. (50-80 kg.)



Westfalia Mini-Load AS/RS Technical Data:

- Flexible designs for your best space maximizing AS/RS – shorter Satellite[®] rack entry vehicle often permits extra levels too
- Pick tunnel within the rack structure, and reserve storage above
- All Dual-Mast designs – durable, stable design which has the added benefit of reducing wear on the crane
- Load capacities ranging from 176 lbs (80 kg) to 660 lbs (300 kg)
- Standard maximum height 33 ft. (10 m)
- Additional height and speed options are available

Westfalia Mini-Load AS/RS References:



Bedford Fleischwaren - Meat processor



Egomedical AG - Biochemical tests manufacturer



Polar-Mohr - Paper cutting machines manufacturer



Friedrich Lürssen Werft - Shipyard



SMA Technologie AG - Solar machinery manufacturer

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