

## TECHSPEC: HIGH DENSITY RETRACTABLE SHELVING SYSTEM

### CARRIAGES:

- 1. Two Stage:** (9) standard sizes that can extend 75% of the base footprint dimension. It consists of a stationary **bottom frame** and a movable **top frame**. Weight capacity up to 300lbs.
- 2. Three Stage:** (9) standard sizes that can extend from 100% to 115% of the base footprint dimension. It consists of a stationary **bottom frame** and a movable **middle** and **top frame**. Weight capacity up to 400lbs.
- 3. Bottom Frame:** Is stationary and constructed of extruded aluminum channels, and optional stainless steel bearing sleeves. It attaches to the base **leveling frame** with 3/8" bolts.
- 4. Middle Frame:** Is movable and constructed of extruded aluminum channels, optional stainless steel bearing sleeves, sealed roller bearings, air-pistons; optional release hook and travel limit Stop Tabs. Removing the Tabs allows the **middle frame** to slide apart from the **bottom frame** exposing the bearings. The bearings roll inside the bearing sleeves on the stationary **bottom frame** and the movable **top frame** allowing up to 115% extension. It is held in place with bolt on steel "Stop Tabs".
- 5. Top Frame:** Is movable and constructed of extruded aluminum channels, aluminum flat stock, and optional stainless steel bearing sleeves, optional air pistons and steel **stop tabs**. It interacts and rolls along the **middle frame** and houses the shelving units. It is held in place with steel **stop tabs**. Removing these "**tabs**" allow the **top frame** to slide apart from the **middle frame**, exposing the **top frame bearings**.
- 6. Bearings:** Are housed on a bearing shaft on both sides of the **middle frame** and **top frame**. The bearings are held in place with **bearing blocks** bolted to the aluminum extrusions and "C" clips. All bearings are replaceable, steel cased, high load, and sealed.
- 7. Back "T" Support:** Attaches with two 3/8" bolts to the back of the movable **top frame** and to the back of the shelving unit with two 1/4" bolts. It provides added support for pass through shelving units. It also attaches to the back of the shelving with two 1/4 x 1" bolts. It is required when solid steel back or cross bracing is not used on the shelving.
- 8. Extension:** Carriages can extend from 75% to 115%. All extensions allow full expose to shelf units. Extensions can be customized per specifications but cannot exceed 115%
- 9. Release Hook:** The **middle frame** and **top frame** move in and out sequentially by means of a **release hook**. When the **middle frame** is fully extended the "**hook**" releases the **top frame** for full extension.
- 11. Dimensions:** Exact dimensions are published in the **Planning Guide** and **Price Guide**. Carriages widths are available in 3" increments: 12", 15" and 18". Standard lengths are available in 6" increments: 24", 30", 36". Custom sizes are available.
- 12. Custom Sizes:** Custom sizes are available upon request. Engineering costs and up charges will be quoted per job.

## SHELVING:

**1. Types:** It is recommended that standard 4-post, quick-lock type or cantilever shelving be used with this system. However, other types of shelving from various manufacturers can be utilized as well. Solid back panels or cross bracing must be used with all sections of shelving to prevent possible “racking”. Pass through shelving can be used on light duty applications (below 250lbs) but must be specified with a “**BTS-XX**”, **back “T” support**. Sales reps need to contact Stewart Systems for restrictions and recommendations.

### **2. Anchoring – Shelving is secured 3 different ways:**

- Through the **top frame** flange into the shelf upright with self-drilling screws.
- Through the shelf support into the **top frame** cross member with self-drilling screws
- Through the “**T**” **support** with 1/4 x 1” bolts

**4. Lateral Cabinets:** Lateral cabinets can be used on either the aluminum or steel **MaxxStor** carriage. Cabinets can sit individually on carriages or back to back on double entry carriages. Cabinets should be bolted together.

**Ordered With Short End Panels, Available as a Special.**

## TRIM:

**1. End Panels:** When carriages need to be locked or the gap between shelves closed for decorative or security reasons. **End Panels Can be Ordered Separately.**

### Available In:

- Low and high pressure laminate with 3 standard finishes; white, tan and light-gray
- Acrylic, clear and opaque
- Steel with three standard powder coated finishes, white, tan and light -gray
- Two standard depths; 3/4 ” and 1 1/2”
- Locking and non-locking

**2. Top Guides:** Help to reduce sway in the shelf units. They attach on top of the shelving. The stationary guide attaches to the front of the shelf with two self-drilling screws. The adjustable guide rests on top of the **stationary guide** and adjusts in and out. It is held in place with a 1/4” washer and nut.

**3. Manual Handles:** Steel and are available in black, white or a steel brushed nickel satin finish. They attach with two 1/4 x 1” bolts through the end panel or the shelf upright.

**4. Manual locks:** Are installed in the end panel and move a lock rod up and down locking and unlocking the carriage.

**5. Mechanical Handles:** Are 7” diameter, single spoke, and black polymer plastic. They attached to the chain tower handle shaft with a 3/8 x 3” bolt. Turning the handle counter clockwise extends the carriage and turning it clockwise retracts the carriage. *continued*

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**6. Side Covers:** Attach to the side of an “end” carriage. They are decorative only and available in black. It is a two-piece assembly. They attach with (4) 3/8 x 1/4” self-drilling screws. One piece is stationary and attaches to the non-movable bottom carriage. The other piece attaches to the side of the **top frame** shelf flange and moves in and out with the shelving. Specify these when the system does not begin or end at a wall.

**7. Front Covers:** Attach to the front of the carriage and are used to cover the carriage mechanism. They are decorative only and are available in black only. They attach to the **top frame** shelf flange with two 8 x 1/4” self-drilling screws.

### RESPONSIBILITY OF THE DISTRIBUTOR:

**Scope:** Furnish labor, materials, equipment, special tools, supervision and services required to complete **MaxxStor** installation in the customer's place of business.

**Responsibility:** It shall be the responsibility of each distributor to become fully informed as to the nature and extent of the work required and its relation to any other work in the building. The distributor and or any employees, representatives or labor contracted by the distributor will always represent the **MaxxStor** product line in a professional and courteous manner.

**Qualifications:** The cantilever floor mounted pullout storage system(s) shall be furnished and installed only by those firms engaging in the distribution of high-density moveable storage products for the last five (5) years. The manufacturer against defective parts and/or workmanship shall warrant the carriage system for a period of five (5) years from final acceptance.



**Bids:** The distributor shall be responsible for all bid submittals including, furnish shop, setting and erection drawings, manufacturer's written installation and operating instructions, color cards, charts and chips as required for color selection.