

Millennium High Density Storage System by Lundia



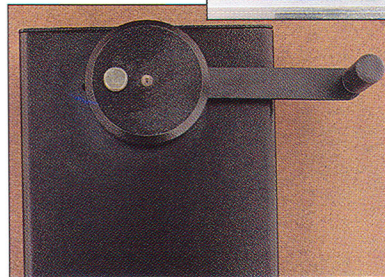
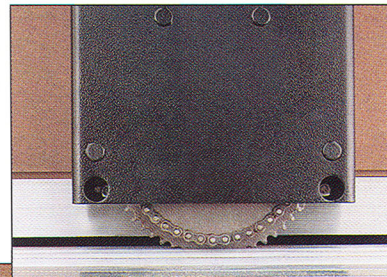
When you have limited space, fixed shelving may not solve all of your storage needs. That's why you should consider Lundia Millennium High Density Storage Systems. By introducing the element of motion (concept of movable aisles), the Millennium system allows you to store what you have in less space - or amass nearly twice as much in the same space. It literally makes more room for storage.

This unique system consists of wood or metal uprights and wood shelving installed on a metal undercarriage. The design is simple, modular, sturdy, and also flexible enough to meet your ever-changing storage needs.

The Millennium system is designed to be compliant with the Americans with Disabilities Act, and meets seismic codes for added safety. It also features a special anti-tip feature - something not found on most other mobile storage systems. This means you can utilize taller shelving units, without fear of tipping, to make the most of vertical space.

Let us work with you to plan, specify and professionally install the perfect system for your storage requirements.

Shelving units move smoothly on a foundation of metal rails.



The Millennium system can be moved manually or via mechanical assistance (pictured), which is available in several effort-to-move ratios.



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Safety Features

- Low profile track to prevent tripping.
- The standard track is sectioned at a 45° angle.
- Hardened steel inserts allow no impingement of the wheel into the track. Single piece inserts for all runs means NO SPLICES for the wheel to hit.
- Insertable ramp prevents tripping should the track be leveled past ¼" off the floor, or used as an entry ramp to a decked system.
- Ceiling-Wall-Floor mountable ANTI-TIP design available, depending upon the specific needs of your company.
- Our multiple track design displaces the system load more evenly. LESS FLOOR LOADING!
- Aluminum mainframe and track housing construction eliminates the possibility of rust or warping throughout the system.
- Foot-activated mechanical brake uses a secure sprocket-and-chain system (as opposed to ordinary rubber stoppers) to ensure no movement of the system during use.

General Dimensions

A. Overall Carriage Length

Maximum carriage length is 32'. To any combination of 36", 42" or 48" long carriage sections, add 6" for carriage and handle to obtain the overall length.

B. Overall Height

The standard carriage height is 2 7/8" off the finished floor (shaft carriages

| Nominal Carriage Depth | Maximum Upright Height |
|------------------------|------------------------|
| 18" | 84" |
| 24" | 108"* |
| 30" | 120" |
| 36" | 120" |
| 48" | 120" |

* May be increased to 120" for loads less than 175 lbs. per carriage foot (i.e., shoe stock).

are 4 1/8"). Add 4" to nominal upright height for overall unit height. Refer to chart for maximum allowable upright height.

C. Overall Depths For Single And Double Carriages

Nominal carriage depth + 3/8".

D. Required Clearances

Wall to end of carriage = 1".

General Specifications

Scope of Work: Furnish all materials required to construct a complete Millennium High Density Storage System as specified herein and as shown on drawings and/or described in separate specifications. This product may be customer-installed. Installation service provided by other must include all labor and equipment necessary for total installation as intended by Lundia.

Approvals: Prior to fabrication, the manufacturer or the manufacturer's representative shall, upon request, furnish drawings showing layout of equipment and other pertinent details. The manufacturer's representative has responsibility for verifying all field dimensions when specifically requested.

Qualifications: This equipment shall be furnished only by those firms engaged in the manufacturing of this type of equipment for at least five years. The product shall be warranted by the manufacturer against defective parts and/or workmanship related to the manufacturing of those parts over a period of one year from final acceptance.

Product Materials

Running Track: The mobile running track (MT) is required under all wheel channels not requiring mechanical assist or an anti-tip system. The track is 3.50" wide x .624" high with 45 degree bevels on both access sides to prevent tripping during use. The top three sides are serrated to prevent marring. There is a .125" slot on both sides of the track for the

insertion of a ramp when leveling the track heightens it to the point of becoming a tripping hazard. There are two rolls of C-1095 blue tempered spring steel hardened to 56 Rockwell C scale inserted into the housing to act as a riding surface for the wheel. The inserts are held in place by .043" flanges on both sides. There are two .187" hardened roll pins that hold all splices together with a 1" inset in both sides of the splice.

Carriages: The carriage frame is unistructure aluminum designed with a load bearing channel under each shelving upright. The rail and channel is extruded 6063-T6 aluminum. The standard rail is 2" x .125" serrated two sides to prevent marring. The rail for the shaft driven carriage is 3 3/4" x 2". The channel is 1.875" x 1.125" with .375 solid legs for maximum load bearing without distortion. The corners are 3" or 4" (based on carriage type) x .125" with a 1" lip above the carriage surface. The mid-plates are 3" x 3" square. Both pieces have a black enamel baked finish. Standard maximum capacity per linear carriage foot is 1,103-1,960 lbs. The frame is fastened together using 1/4" and 1/2" bolts and lock nuts to ensure structural integrity and to eliminate any chance of loosening. All holes for hardware placement are machined for a .0132 tolerance to remain within commercial scale.

Wheels: The wheel is a 6063 permanently sealed, self-lubricating, high revolution bearing. The static load bearing capacity is 1,470 lbs. per wheel.

Guidance: The guide wheels in the front channel are locked into place with oil impregnated, bronze, flange bushings. The wheels and flange bushings are pressed into the channel and secured with a 1/2" 13 x 2" button head cap screw with a shear

strength of over 20,000 lbs. The screw is then secured into position with a nylon lock nut at 110 lbs. psi.

Shelving

Uprights: Consists of two stiles and at least three cross members. Stiles and cross members fabricated of clear solid fir or hemlock (with all outside corners relieved), or 16 ga. galvanized steel. Hole drilling will allow shelf adjustment at 1" intervals on all heights.

Shelves: All shelves to conform to specifications provided for Lundia prefabricated adjustable storage shelving. A top, bottom and intermediate shelf is mandatory. Additional intermediate shelves are optional.

1. 3/4" solid pine stock.
2. 3/4" edge-glued and finger-jointed pine stock.

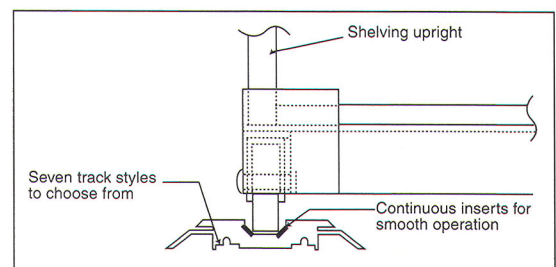
Finishes: Wood uprights and shelves finished as specified:

- Smooth, sanded natural wood.
- Dust sealed.
- Fire treated.

X-Braces: Steel x-braces are to be provided for support of each moveable and stationary unit.

Options

- Metal Uprights
- Anti-tip Track
- Mechanical Assist Track
- Mechanical Brakes
- Hardboard Backs
- Chicken Wire Backing
- Hardboard Dividers
- Hangrods
- Decks



Your Lundia Representative is:

