

## **Series 100 & Series 200 Specifications**

### **Denstor Manual Specifications**

**MOBILE SYSTEM** - Mobile Storage system shall consist of multi-wheeled carriages riding on tracks anchored directly to a standard floor.

**CARRIAGES** – Carriages shall be custom built to storage unit dimension and configuration. Carriages shall be constructed utilizing 6063-T5 aluminum alloy rails. Rail shall be 2" x 2" x 1/8" extruded alum angle. Corner assemblies shall be molded from Zytel 82G33L nylon and shall support a 1-5/8" x 1/2" hardened steel, lubricated and sealed ball bearing on a 1/2" diam. steel axle.

Mid Channels shall be custom placed in the carriage at the factory to conform to shelving configuration. Mid Channels are to be constructed utilizing 6063-T5 alloy aluminum C-shaped extrusion, measuring 2" x 2" x 1/8".

Mid Channels shall support single wheel assemblies, with one 1-5/8" x 1/2" hardened steel, lubricated and sealed ball bearing on a 1/2" diam. Steel axle, and/or articulated wheel assemblies. Articulated wheel assemblies contain two 1-5/8" x 1/2" hardened steel, lubricated and sealed ball bearings mounted in an aluminum housing which pivots on a 1/2" diam. Steel axle to conform to floor irregularities.

**CARRIAGE TRACK** – Track shall conform to minor floor irregularities without external support and anchor directly to existing floor with minimal floor preparation. Track shall be extruded from 6063-T5 aluminum with spring steel inserts to provide a wear resistance running surface for carriage wheels. The steel inserts shall consist of .062 x .250 CD1095 tempered steel. Steel inserts shall be installed in the aluminum extrusion at the factory, forming a V-shape to provide a low rolling resistance to carriage wheels. Tracks shall not require ramps or platforms.

**HEIGHT** – The carriage tracks shall not exceed .40 inches in height. Carriages shall not exceed 2.50 inches in height. Furthermore, when carriages are resting on carriage tracks, the bases of the storage units shall not be more 3.0" from the floor.

**WEIGHT CAPACITIES** – Each individual wheel assembly shall be capable of supporting 550 pounds of load and each articulated wheel assembly shall be capable of support 1,100 pounds of load.

**EFFORT OF MOVEMENT** – Carriages shall move easily, requiring 5 pounds of user effort for every 1,500 pounds of storage load to move.