

## **Manual Mobile System (PPC) Specifications**

**GENERAL SPECIFICATIONS:** The mobile system utilizes carriages and track to increase storage density by compacting rows of shelving into a single aisle configuration thus converting fixed aisles into storage space thereby greater storage density and capacity is gained. Rows of shelving on a carriage are quickly and easily moved to allow access to a desired row.

**PPC MANUAL CARRIAGES:** Non-welded, unitized carriage frames of 6063-T5 2" x 2" aluminum angles, powder coated steel corner and center plates and rubber bumpers joined by self-tapping 10-32 x 1-1/2" screws to 6063-T5 1-7/8" x 1-1/4" aluminum channels with channel screw embossments incorporated. Carriage wheels, mounted on oil-impregnated bronze bushings over precision machined steel axles, are installed in each corner, are 1-1/2" diameter, 800 lbs. capacity per wheel, permanently lubricated and sealed ball bearing case-hardened steel races with Rockwell C hardness of 57-58 are designed to match the steel running surfaces in the track. **CARRIAGE DIMENSIONS:** Storage unit dimensions plus 3/8" (1/8" each side + 1/8"). **CARRIAGE CAPACITY:** PPC Manual is 3,000 lbs. per carriage.

**PTNHD TRACK:** Is the standard track for PPC Manual systems. Made from extruded 6063-T5 aluminum with hardened, blued steel running surfaces rolled in to form "V" shaped running grooves. This track is ADA compliant, and compatible with the In-Track Anti-Tip and Posi-Lock Track Systems. The track is 2.7" wide and .5" tall.

**TRACK END STOPS:** Standard track end stop is 1" diameter rubber cushion reinforced with an internal steel washer. End stop attached at each end of track run through pre-drilled factory hole with Hilti II 1/4" x 3-1/4" anchor. The end stop is painted yellow for safety recognition.

**IN-TRACK ANTI-TIP OPTION:** (Recommended when carriage/shelving height-to-depth ratio exceeds 4:1 or in Seismic risk areas.) Steel anti-tip arms (attached to the inside of the carriage) travel in the track anti-tip rail as the carriage is moved along the track. By design, the anti-tip is riding in exact relationship to the wheel axles, always allowing the anti-tip to float free of drag or binding as it moves along the track. Installed, the track is anchored to the floor with Hilti TZ anchors, and the shelving is secured to the carriage. Can be employed on carriages up to 12' in length. The anti tip track is available in standard or ADA compliant profile. The track is 5.8" wide and 0.5" (or 0.6" for standard) high.

**Z-RAIL ANTI-TIP OPTION:** (Recommended when carriage/shelving height-to-depth ratio exceeds 4:1 or in Seismic risk areas.) Steel, floor mounted "Z" shaped rail provides a lip under which Z-Rail anti-tip arms (attached to the inside of the carriage) are free to travel as the carriage is moved along the track. If the carriage begins to tip, the arm immediately engages the Z-Rail to prevent tipping. Installed, the Z-Rail is anchored to the floor and the storage units are secured to the carriages. The vertical height of the Z-Rail is 1 1/8".

**SYSTEM HEIGHT:** PPC Carriage Systems equal the sum of 2-3/4" for carriage and track plus height of storage units.

**COLOR:** Silver Aluminum with Black Trim (Carriage Corner & Center Plates) is standard.