

#### 13.24.7 Tandem Roller

Tandem rollers have two axles/rollers. A tandem roller is used to compact newly constructed courses. The minimum weight for a tandem roller is 10 tons. Figure 13.24-5 illustrates a tandem roller in use.



Figure 13.24-5 Tandem Roller

#### 13.24.8 Three Wheel Roller

Three wheel rollers have three rollers, one on the forward axle and two on the rear axle. There is a minimum bearing requirement for the rear wheels of 300 lb/in in accordance with 409.03(d). Figure 13.24-6 shows a three wheeled roller in use.



Figure 13.24-6 Three Wheeled Roller

### 13.24.9 Pneumatic Tire Roller

Pneumatic tire rollers may be used to compact QC/QA HMA or HMA mixtures, but are not frequently used for that purpose. They may also aid in achieving density requirements in situations where steel-drum rollers may not suffice due to underlying pavement conditions. Pneumatic tire rollers are required to be used to seat the cover aggregate into the asphalt material in seal coats.

Requirements related to pneumatic tire rollers are included in 409.03. Figure 13.24-7 shows a pneumatic tire roller in use.



Figure 13.24-7 Pneumatic Tire Roller

Figure 13.24-8 illustrates how the tires on a pneumatic tire roller are offset to facilitate complete coverage of an asphalt mixture or complete seating of seal coat cover aggregate with each pass.

