

1600 Tenders

Proven, Durable Design
with High-Performance Standards



The new 1600 tender continues the legendary Willmar commitment of high capacity material handling excellence.

- 500 cu. ft. capacity with two 250 cu. ft. compartments
- Minimum 30° slope angle for clean out
- 10" diameter, 19' or 21' rear discharge auger
- 409 stainless steel control gate and track
- Self-contained hydraulic system with PTO drive



Model	1600
Empty Weight	
Tender Only ¹	2,720 lbs (1,235 kg)
Hopper Type and Capacity	
Compartments	Two
Struck	500 cu. ft. (14 cu. m)
Heaped	560 cu. ft. (16 cu. m)
Hopper Dimensions²	
Length	192.0 in (488 cm)
Width	96.0 in (244 cm)
Height above Truck Frame	87.7 in (223 cm)
Rear Auger	
Length – Standard	19 ft (5.8 m)
Length – Optional	21 ft (6.4 m)
Diameter	10.0 in (25 cm)
Truck Requirements	
Capacity (min. GVW)	40,000 lbs (20,900 kg)
Rear Axle (tandem)	34,000 lbs (15,400 kg)
Front Axle	12,000 lbs (5,400 kg)
Cab to Trunion	138.0 in (350 cm)
Frame	Heavy-duty reinforced 34.5 in (87.5 cm) maximum frame width
<i>The truck frame requires a minimum of 138 in (350 cm) from cab to center of tandem axles.</i>	
PTO and Hydraulic Pump Requirements	
Pump Input Speed	2,000 RPM maximum at desired setting
Torque Capacity	150 ft-lbs (205 N-m)
Shaft Size	13T SAE spline, 1 6/32 DP 30 degree PA
Pump Mount	SAE H.2 bolt "B" flange
Rotation	Counter-clockwise or clockwise
Hydraulic Requirements	20 GPM (76 lpm) @ 2500 PSI (172 bar)
Options	
Flip-top tarp	
Roll-top tarp	
<i>1 Due to variations in truck frame heights, all dimensions are for tender only. To determine heights of the mounted equipment, measure the distance from the ground to the top of the truck frame and add this to the given height dimension.</i>	
<i>2 Height excludes auger and tarp bow.</i>	

30-degree minimum hopper slope angle provides uniform material flow and fast clean out. When unloading, the product flows evenly saving time and maximizing capacity. The hopper features 409 stainless steel with 14-gauge construction. It is coated with a durable two-component epoxy primer and two-part white acrylic enamel paint to provide a finished appearance, corrosion protection, and lasting value.

409 stainless steel gates on each compartment control the product flow when unloading. The gates and track are made of stainless steel for durable, long lasting wear and corrosion resistance. The sliding gates are operated by horizontal pivoting handles that adjust and regulate unloading rates and control clean out.

Optional 21-foot auger increases unloading height to 117 inches and overall length of 340 inches. Maximum discharge height of the standard 19-foot auger is 108 inches and overall length is 321 inches. The stainless steel auger is 10-inches in diameter. It is driven hydraulically from the discharge end and has a rated capacity up to 4,000-pounds of potash per minute, @ 390 rpm. The auger on/off and raise/lower hydraulic controls are located on the left rear corner of the tender.

Self-contained hydraulic system is PTO driven and features a 10-gallon hydraulic oil reservoir located on the front of the tender. An oil-level sight glass and oil temperature gauge on the front side of the tank allow operators to conveniently monitor hydraulic fluid level and temperature. Hydraulic oil is cleaned and filtered by a suction strainer inside the tank, ahead of the pump, and a 10-micron replaceable filter in the hydraulic circuit.