

# Challenger 7 Self Propelled Broom

**Rosco**  
A LeeBoy Company



## Performance Features:

The Challenger 7 front-mounted broom exhibits all of the high-end features you could expect from a self propelled broom. Serving as a pleasurable amenity, the quick-change core system allows the brush to be changed swiftly with no tools required. Ergonomic joystick controls provide simple-to-use travel and broom functions while also granting a 3 foot turning radius for the ultimate maneuverability. In addition to an extra-heavy duty frame, the Challenger 7 features a high-raise lift to ensure easy trailer loading and unloading.

- 74 hp (55 kw) Cummins Tier 4 Final Diesel Engine
- 7,500 lbs (3,401 kg) weight
- Choice of 7' 6" (2.28 m) or 8' (2.43 m) Heavy-Duty Frame with Poly-Steel Tube Brush
- 150 gallons (568 l) Rear-Mounted Brush Watering System
- Joystick Control for Travel and Broom Functions
- Hydrostatic Drive
- Rear Steering for 3' (.91 m) Turning Radius
- Variable Brush Down-Pressure and Brush Speed Control
- Single Door ROPS Climate-Controlled Cab



# Challenger 7 Broom Specifications



Dimensions	<ul style="list-style-type: none"> <li>- Length: 18' 6" (5.63 m) with water 15' 3" (4.64 m) without water</li> <li>- Width: 8' 6" (2.59 m) not tilted</li> <li>- Height: 9' 5" (2.87 m) with beacon</li> <li>- Wheelbase: 5' 5" (1.65 m)</li> <li>- Turning Radius: 3' (.91 m)</li> <li>- Total Weight: 7,500 lbs. (3,401 kg) w/ water</li> </ul>	Brush	<ul style="list-style-type: none"> <li>- Joystick control of swing and up/float motions</li> <li>- Variable down pressure, brush rotation, speed control</li> <li>- Quick change design allows operator to change out brush quickly without tools</li> <li>- Driven hydraulic by separate pump and heavy duty motor, independent of propulsion circuit</li> </ul>
Engine	Cummins turbocharged diesel, Tier 4 Final – 74 hp (55 kw)	Brush Frame Choices	<ul style="list-style-type: none"> <li>- 7' 6" (2.28 m) heavy-duty frame with poly-steel tube brush, 32" (.81 m) diameter, 7' 6" (2.28 m) long, sweep angle: 35° left or right, variable speed 0 to 180 rpm, brush frame is welded, heavy gauge steel</li> <li>- 8' (2.43 m) heavy-duty frame with poly-steel tube brush, 32" (.81 m) diameter, 8' (2.43 m) long, sweep angle: 35° left or right, variable speed 0 to 180 rpm, brush frame is welded, heavy gauge steel</li> </ul>
Capacities	<ul style="list-style-type: none"> <li>- Fuel: 35 gallons (132 l)</li> <li>- Hydraulic reservoir: 24 gallons (91 l)</li> </ul>	Additional Standard	<ul style="list-style-type: none"> <li>- Fully enclosed ROPS cab with air conditioner, heater and defroster</li> <li>- Seat with safety belt, horn, dual west coast style mirrors and dome light</li> <li>- Tinted safety glass</li> <li>- Rear-mounted brush watering system, 150 gallon tank (568 l) with brush spraybar, electric pump and filter</li> <li>- Two LED head lights, stop, turn, tail, rear working lights and amber strobe light</li> <li>- Back-up alarm</li> <li>- Toolbox</li> </ul>
Transmission	<ul style="list-style-type: none"> <li>- Hydrostatic drive</li> <li>- Speed infinitely variable, 0 to 15 mph (24 kph)</li> </ul>	Optional Equipment	<ul style="list-style-type: none"> <li>- 8' (2.43 m) heavy-duty frame, poly/steel tube brush</li> <li>- Front windshield washer (wiper is standard)</li> <li>- Rear wiper and washer assembly</li> <li>- Suspension seat assembly</li> <li>- Back up/reverse camera with in-cab color display</li> <li>- Radio/CD cab install</li> <li>- Cold weather package, block heater</li> <li>- Spare tire with mount</li> </ul>
Front Axle	<ul style="list-style-type: none"> <li>- Heavy-duty, limited slip differential</li> <li>- Tires: 8.75 x 15 in, load range E, highway tread</li> <li>- Rim: 4 steel disc type, 15 x 6.57 in</li> </ul>		
Rear Axle	<ul style="list-style-type: none"> <li>- Heavy-duty truck type, oscillating</li> </ul>		
Brakes	<ul style="list-style-type: none"> <li>- Dynamic braking with two wheel drive axle disc type brakes in oil bath</li> <li>- Hand operated parking brake</li> <li>- Foot operated de-stroke breaking of the hydrostatic drive</li> </ul>		
Hydraulic System	<ul style="list-style-type: none"> <li>- Two separate circuits, one for travel, one for brush control and power steering</li> </ul>		
Main Frame	<ul style="list-style-type: none"> <li>- .75 x 12" (19 x 305 mm) plate steel and 2" x 6" (51 x 152 mm) rectangular A 500 tubing with .25" (6 mm) wall thickness</li> </ul>		
Instrumentation	<ul style="list-style-type: none"> <li>- PV 101 digital display includes: oil pressure, water temperature, voltmeter, tachometer, hour meter</li> <li>- Fuel gauge</li> </ul>		



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