

# Challenger 7 Self Propelled Broom

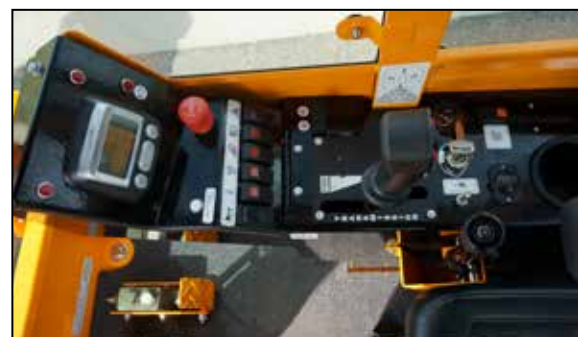
**Rosco**  
LeeBoy Group



## 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>
Engine	Cummins turbocharged diesel, Tier 4 Final – 74 hp (55 kw)
Capacities	<ul style="list-style-type: none"> <li>- Fuel: 35 gallons (132 l)</li> <li>- Hydraulic reservoir: 24 gallons (91 l)</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>
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	- Heavy-duty truck type, oscillating
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	- Two separate circuits, one for travel, one for brush control and power steering
Main Frame	- .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
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>

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>
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>
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>
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>



VT LeeBoy, Inc. ■ 500 Lincoln County Parkway Extension ■ Lincolnton, NC 28092 ■ 704.966.3300  
 For additional products or information, visit our website: [www.LeeBoy.com](http://www.LeeBoy.com)



BR-1101.2-EN This document contains information applicable for the U.S. and U.S. Territories. For International product availability, specifications and support, please contact your authorized LeeBoy representative. The technical data contained herein is subject to change due to continuous engineering and development. Accordingly, LeeBoy Group reserves the right to modify at any time.