

Challenger 7 Self Propelled Broom

Rosco
A LeeBoy Company



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.

Performance Features:

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



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