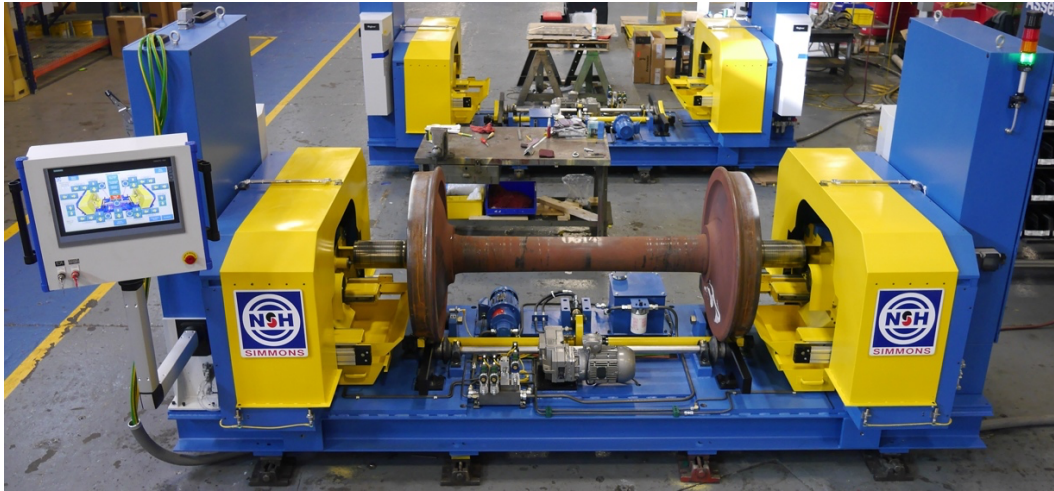


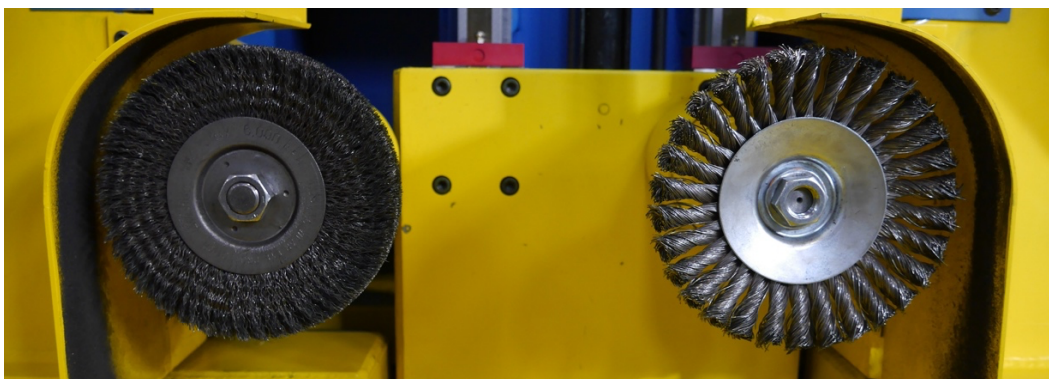
Simmons WBS-400 Wire Brush Station Data Sheet

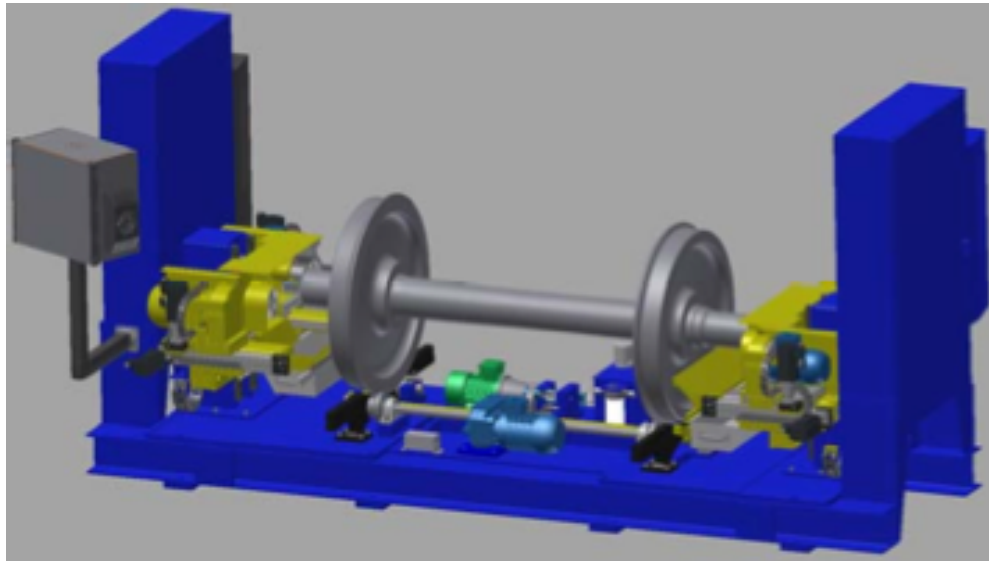


The **Simmons WBS-400 Wire Brush Station** automatically cleans the bearing journals, bearing journal fillets, dust guards, and axle ends of outboard bearing rolling stock axles on mounted wheel sets. The machine cleans both ends of the axle simultaneously.

A wire brush assembly is located on each side of the machine. Both assemblies have two wire brushes, and each wire brush has a separate 3 HP electric motor for rotation. Additionally, each brush has a separate two axis horizontal movement system to allow the brush to be moved down the length of the bearing journal and radially inward towards the centerline for cleaning. The power required to rotate each wire brush is monitored individually to apply the proper force to each wire brush during cleaning. The wire brush assemblies are enclosed as much as possible to contain any loose dust and dirt resulting from brushing. The enclosures are fitted with outlet nozzles to which an optional vacuum system may be attached. Each side has a slide out tray at the bottom to facilitate cleaning where the majority of the debris collects. The brush spindles are easily accessible for changing wire wheels. The machine has monitoring in place to alert the operator as to when wire brushes should be replaced.

The Wire Brush Station can be top loaded (allowing the machine to be floor-mounted, which requires no foundation), or the machine can be placed in a pit so that wheel sets can roll through on flush-mounted shop rails.





Machine Dimensions

Length	163 in.	4130 mm
Width (including Panel)	87 in.	2205 mm
Height	83 in.	2106 mm
Total Weight	8750 lbs.	3968 kg

General Specifications

Cycle Time	Approximately 3 minutes	
Wire Brush	6 in. diameter (152.4 mm) 5/8-11 arbor (other size arbors available)	

Utility Requirements

Electrical Requirement	49 kW	
Compressed Air	15 scfm @ 100 psi	425 slpm @ 7 bar
Hydraulic Reservoir	5 US gallons	19 liters

Wheel Set Dimensions

Maximum Wheel Diameter	42 in.	1067 mm
Minimum Wheel Diameter	28 in.	711 mm
Maximum Axle Length	90 in.	2286 mm
Maximum Weight	4000 lbs.	1820 kg

Updated November 16, 2021