

THE LEADER IN WHEEL SET SOLUTIONS

Penn Resilient Wheels-Penn 54

Penn Machine Company is a major supplier of solid and resilient wheels. Included in our product line are solid wheels, the original PCC resilient and super-resilient wheels, and Penn Super Cushion wheels.

Advantages of Resilient Wheels

- Improved ride quality
- Noise reduction
- Reduced unsprung mass
- Tire and track wear reduced
- Only tire and rubber blocks require replacement at end of lifecycle
- Reduces ground-borne vibration



Design/Construction Features

All Penn Machine resilient wheels have an elastic layer between the steel tire and wheel center. This elastic layer is comprised of a number of individual rubber or ring elements with precisely matched elasticity and damping properties. These wheels have the required conductive continuity through the independently rotating wheels to the axle shaft via external current conductors. This divided wheel body facilitates dismantling and refitting of the wheel tire.





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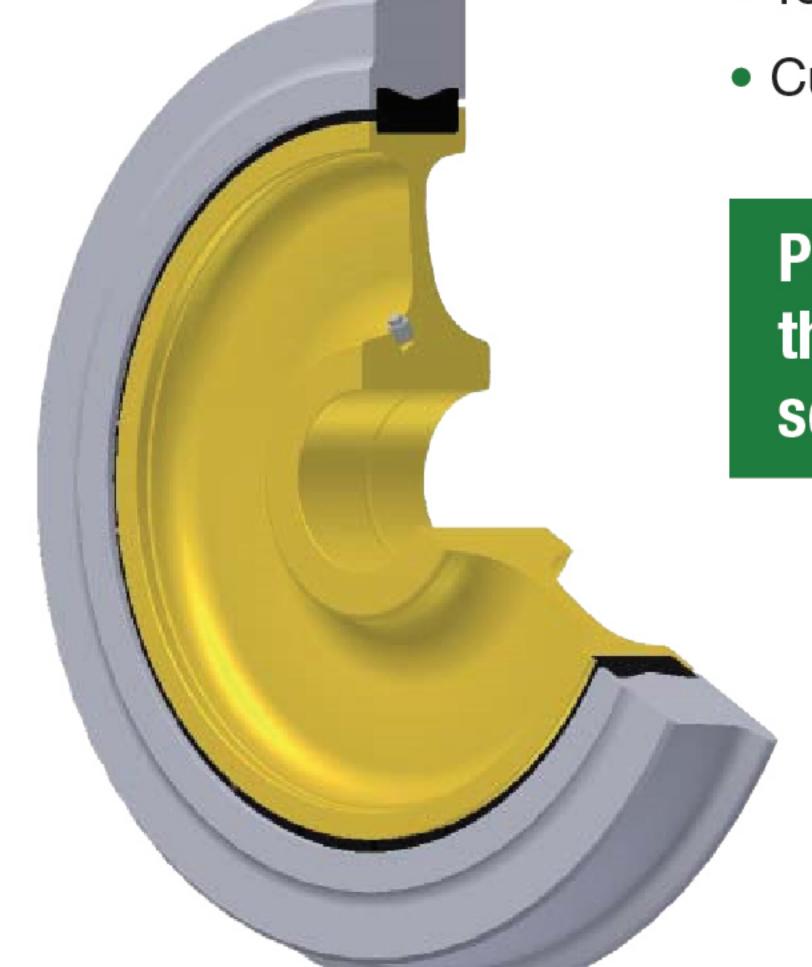


Why Penn 54 Wheels?

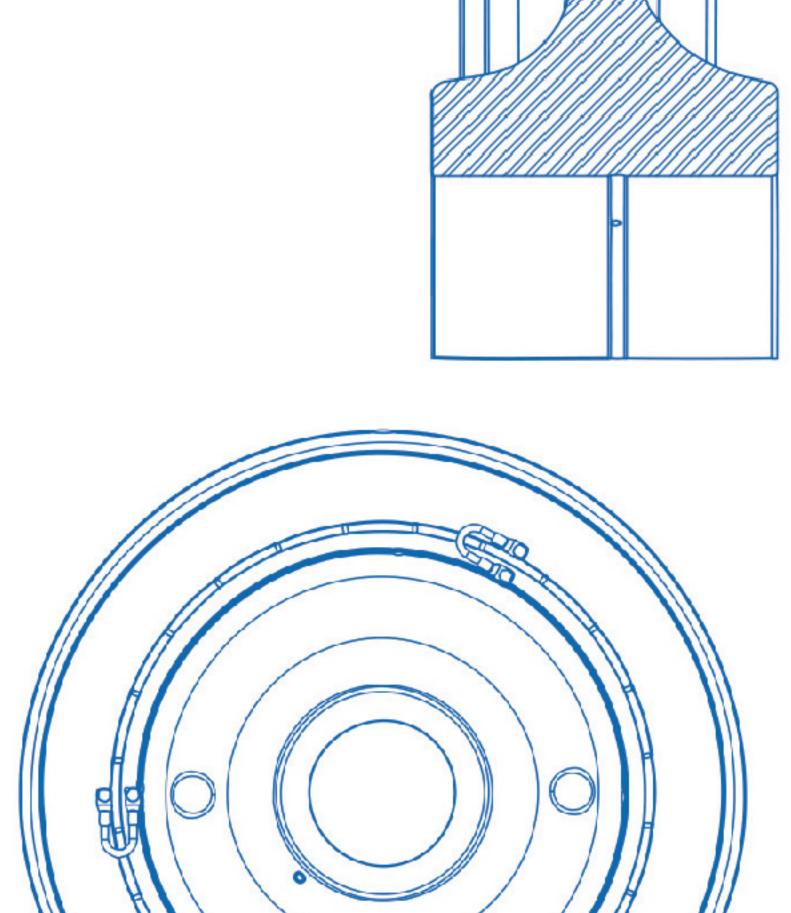
- Straight forward design
- Two components (Tire and Center)
- Most cost-effective Penn Resilient Wheel
- Can be custom designed for wheels from 24-inch diameter and larger

Technical Data:

- Radial Spring Rate: 430,000 lbs/inch (75 kN/mm)
- Axial Spring Rate: 46,000 lbs/inch (8 kN/mm)
- Deflection at 5-Ton Wheel Load: 0.023-inch (0.6 mm)
- Torque Carrying Capability: > 22,000 ft-lbs (30 kN-m)
- Customized for Your Application



Penn Machine Company has more than 300,000 resilient wheels in service worldwide.



A Leader in Wheels & Maintenance Equipment for Transit, Rail & Mining/Industrial Applications

In 1920, Penn Machine Company (PMC) began as a coal company and pioneered the manufacture of quality replacement parts for coal mining equipment. Over the years, the company has grown to become a major supplier of heavy-duty OEM and aftermarket components for transit, railroad, mining, steel, construction, and general industrial applications. Our business is domestic and international in scope. Our capabilities and experience combine to provide a wide range of quality manufactured products and services. Penn Machine is comprised of three market-focused stand-alone business units: Energy, Transit, Locomotive, and Industrial/Mining. The company has operations in Johnstown and Blairsville, PA, and is part of The Marmon Group, global organization of manufacturers owned by Berkshire Hathaway Corp.











PENN MACHINE COMPANY LLC

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