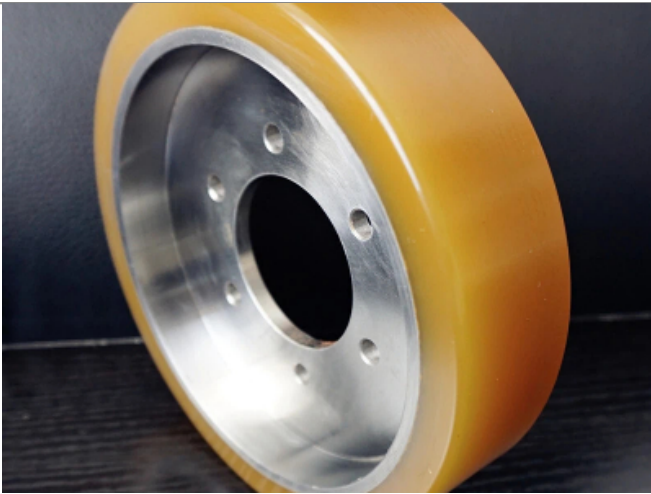
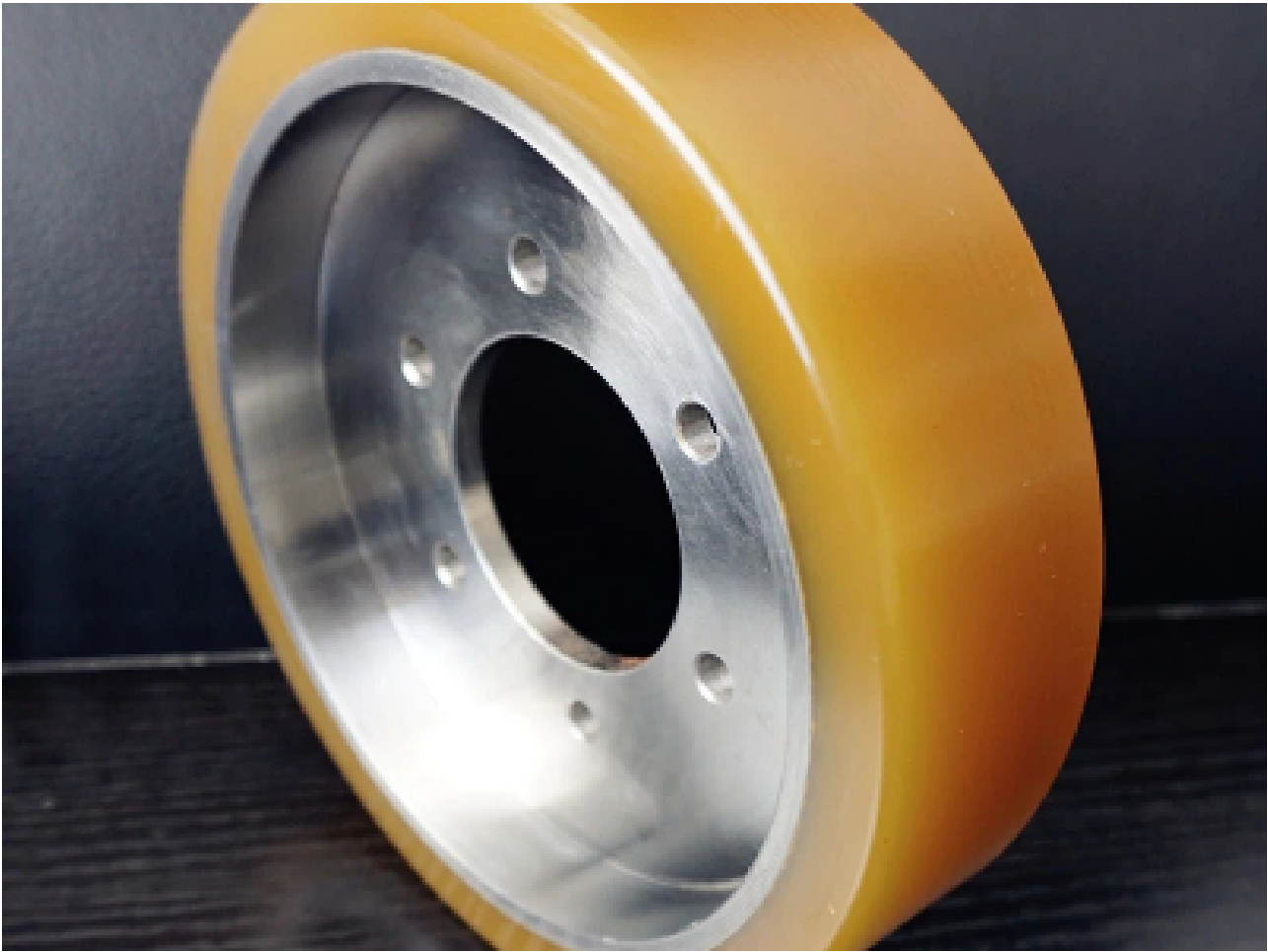

Polyurethane Wheel Relining for Cost-Effective Industrial Performance

| | |
|---------|---|
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Description

In modern industry, polyurethane (PU) wheels are widely used for their excellent wear resistance, high load-bearing capacity, and long service life. Over time, however, the outer polyurethane layer may wear down while the wheel core remains intact. Instead of replacing the entire wheel, relining or recoating polyurethane wheels offers a more economical, sustainable, and high-performance alternative.



Why Choose Polyurethane Wheel Relining or Recoating?

Cost Savings: Refurbishing a wheel is typically 30-50% less expensive than purchasing a brand-new wheel.

Sustainability: Reusing wheel cores reduces industrial waste and minimizes material consumption, supporting green manufacturing goals.

Extended Service Life: With high-quality recoating, a refurbished wheel can deliver performance comparable to a new one.

Customization Options: Relined wheels can be produced with specific hardness levels, colors, or properties such as anti-static, oil-resistant, or high-temperature performance to meet different application needs.

Key Factors in the Relining Process

While polyurethane recoating provides many benefits, maintaining quality and durability

requires careful control at each step:

1. Core Surface Preparation: Remove old PU, rust, and oil to ensure strong bonding between the new polyurethane layer and the wheel core.
2. Bond Strength: Poorly prepared cores can cause delamination or peeling under heavy loads.
3. Dimensional Accuracy: Improper pouring or machining can lead to uneven wheel surfaces, affecting balance and performance.
4. Material Quality: Using premium polyurethane ensures superior wear resistance and prevents premature failure.

Philson's Commitment to Quality

At Philson, every relined polyurethane wheel is built to meet stringent industrial performance standards through:

Premium Polyurethane Materials – High-grade prepolymers and curing agents ensure superior wear resistance and load capacity.

Advanced Processing Technology – Wheel cores are sandblasted, cleaned, and bonded using specialized primers for exceptional adhesion.

Precision Casting Control – Accurate molds and curing systems guarantee uniform coating thickness and perfect balance.

Comprehensive Quality Testing – Each wheel undergoes machining, hardness verification, and load testing to ensure consistent performance.

Extend Equipment Life, Reduce Costs, and Stay Sustainable

Relining or recoating polyurethane wheels is the smart choice for industries seeking to balance performance, cost-efficiency, and sustainability. By reusing wheel cores and applying high-quality polyurethane coatings, companies can extend equipment lifespan, reduce operating costs, and minimize environmental impact. With advanced facilities, skilled technicians, and strict quality control, Philson provides professional polyurethane wheel refurbishment services that deliver new-wheel performance at a fraction of the cost. Contact us [□](#)

