



PreSet Plus® Spindle Nuts

ConMet Wheel Bearings

ConMet Wheel Seals

HUB COMPONENTS

Designed and Manufactured to Extend the Life of Your Hub Assemblies

WHEEL BEARING

Designed to perform better and last longer.



Commercial vehicle operators in North America continue to demand more reliable, longer-life components at a price that offers better value. Utilizing innovations in both design and manufacturing, ConMet has developed its own line of wheel end bearings to meet this market demand. ConMet bearings are engineered to extend service life and help prevent field issues in the most demanding applications in the industry, including wide-based single wheels and misalignment due to spindle wear and disc brakes.

Features of ConMet Bearings:

- ▶ Extended life over standard bearings
- ▶ Improved rolling contact and reduced friction
- ▶ More effectively withstands heavy cornering and misalignment better than standard bearings
- ▶ Lower operating temperatures and improved lubrication
- ▶ Optimized contact and reduced stress concentration

Improved Bearing Life

ConMet bearings offer longer life over standard bearing designs in applications where the duty cycle, operating environment, and road conditions are unpredictable.

Surface Finish

The highly-controlled honed surface finish provides a 40% improvement over current industry standards. The surface finish improvements result in superior rolling contact and reduced friction leading to lower operating temperatures and better lubrication.

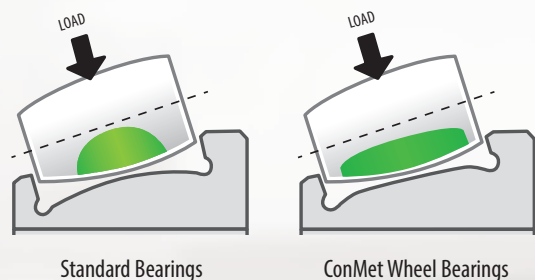
Manufacturing Process

Internal geometry is rigorously controlled by state-of-the-art equipment. Each bearing must pass a fully automated inspection before it leaves the factory. Tighter control over geometry and inspection procedures results in a smoother operating and more efficient bearing.

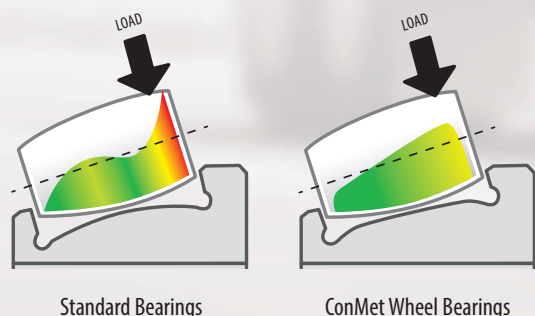
Profiles

Precisely engineered profiles minimize bearing stresses under heavy loads, and better utilize the roller length under light loads. The reduction of stresses at the roller ends minimizes the impact on bearings during heavy cornering and misalignment.

Bearing stress under NORMAL conditions



Bearing stress under EXTREME conditions



WHEEL SEAL

Superior protection and durability.

Developing a Superior Seal

Known throughout the transportation industry for innovating superior wheel end solutions, ConMet has developed a superior wheel seal. The wheel seal plays a vital role in the overall protection of the hub. If a seal fails, you can be sure that vehicle downtime and expensive repairs are not far behind. ConMet also recognizes that damage to the seal during installation can cause premature wheel end failures. That's why ConMet now offers a wheel seal that is less susceptible to installation damage and can withstand harsh road conditions, poor weather, and frequent braking.

Superior Contaminant Protection

The road can be a dirty place and contaminants like water, dirt, and grime are a wheel end's worst enemy. ConMet wheel seals are your first line of defense. With a multi-zone labyrinth design and low-friction barrier, contaminants can't get in, providing superior durability and protection against the elements.

The seal's specially designed multi-zone labyrinth creates superior protection and the wide inside diameter with rubber ribs ensures proper sealing capability. ConMet wheel seals keep harmful contaminants out and protective lubricants in, where they can work safely and smoothly.

No Special Tool Required

ConMet wheel seals use thicker gauge steel than other seals to help stand up to the pressures applied during installation. The specially designed low-friction bumper also reduces run-in period and operating torque. Plus, the seals are designed for use with any conventional seal installation tool, so the risks of damage during installation are virtually eliminated.

Exceptional Wear Resistance

Not only do ConMet wheel seals protect against contaminants, but they are also designed to better handle the punishment of the road. Multiple outside-diameter seal ribs provide a secure fit in the hub and thicker gauge steel protects against internal damage during installation. The high temperature HNBR rubber provides exceptional fluid-resistance. The result is a seal that is expertly engineered for maximum functional life.



PRESET PLUS® SPINDLE NUT

For faster and easier installation, removal, and service.

Taking Spindle Nuts to the Next Level

For years, ConMet has been developing technologies to aid hub installation, ensure proper alignment, and reduce damage to components during assembly, and now that continues with the design of spindle nuts for use with PreSet Plus® hubs and Aftermarket PreSet hubs.

Installation is a Snap

PreSet Plus spindle nuts make installation faster and easier, and aid the removal of the complete assembly for servicing. They have improved safety features and require no adjustment to engage the locking ring. These spindle nuts also save you time during hub installation and removal, making sure everything is aligned properly before your vehicle hits the road.

Superior Clamp Load Retention

ConMet's spindle nuts are designed with optimized contact area to improve clamp load retention. They retain clamp load on the bearings, which, in turn, hold the hub in place. Once the locking ring is in place, it cannot loosen. And what's more? PreSet Plus Spindle nuts lock in any position giving you the perfect fit – every time.

You Know You've Got the Best

Not only is this spindle nut an improvement over conventional nuts in terms of safety and maintenance, but it also identifies ConMet as the manufacturer, so you know you're working with the very best wheel end components in the industry.

PreSet Plus® Spindle Nut Assembly Components

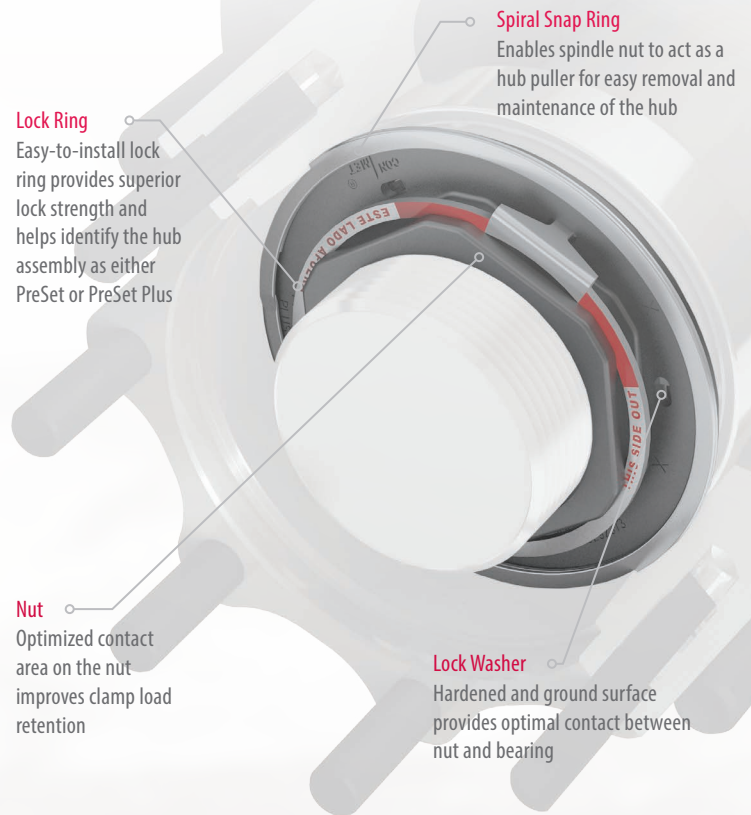


Spiral Snap Ring

Lock Ring

Nut

Lock Washer



Lock Ring
Easy-to-install lock ring provides superior lock strength and helps identify the hub assembly as either PreSet or PreSet Plus

Spiral Snap Ring
Enables spindle nut to act as a hub puller for easy removal and maintenance of the hub

Nut
Optimized contact area on the nut improves clamp load retention

Lock Washer
Hardened and ground surface provides optimal contact between nut and bearing

Socket Sizes for PreSet Plus Spindle Nuts

Hub Type	FF Flat	FF Keyway	FL	R	TN	TP
Socket Size (6 Point)	2"	2"	2.75"	3.75"	3.125"	4"

WARNING: ConMet spindle nuts are designed to be used exclusively on PreSet Plus hub assemblies and Aftermarket PreSet hubs. Do not use PreSet Plus spindle nuts on hubs with manually-adjusted bearings and other non-ConMet hubs.

SERVICE KITS

Return hubs to factory condition.

Standard Equipment for Most OEMs

For those operating a commercial vehicle that was built in the last ten plus years, chances are that PreSet or PreSet Plus wheel hubs were installed as standard equipment. When it's time to service those hubs, why not opt for genuine PreSet/PreSet Plus rebuild kits and bring them back to their PreSet factory settings? It's an opportunity to press the reset button with quality, long-lasting ConMet replacement components in each kit.



PreSet® / PreSet Plus® Hub Rebuild Kit

Rebuild PreSet or PreSet Plus hub assemblies with OEM original components – ConMet wheel seal, wheel bearings and a PreSet bearing spacer.

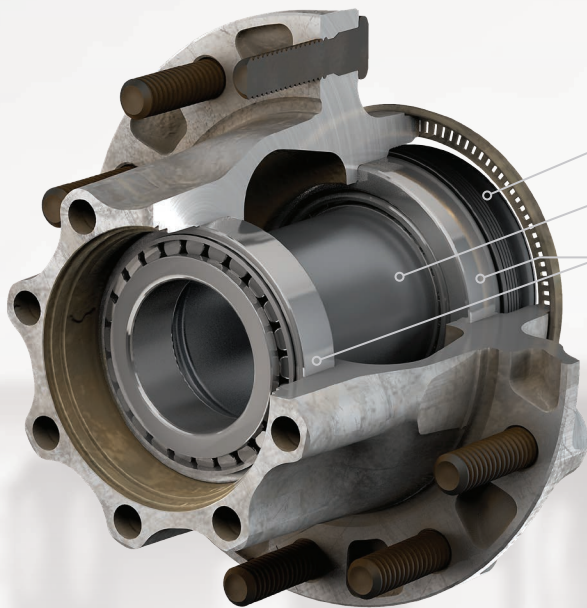
PreSet® / PreSet Plus® Hub Seal & Spacer Kit

Refresh PreSet or PreSet Plus hub assemblies with OEM approved ConMet wheel seal and PreSet bearing spacer.

PreSet Plus® Spindle Nut*

Pair with ConMet service kits when rebuilding PreSet Plus assemblies or installing on Aftermarket PreSet hub assemblies.

*Should not be used on OEM PreSet hub assemblies without groove machined into barrel of the hub.



PreSet® / PreSet Plus® Hub Rebuild Kits include:

- ▶ ConMet Wheel Seal
- ▶ PreSet® Bearing Spacer
- ▶ ConMet Wheel Bearings



Wheel Seal

ConMet's seals have superior contaminants protection and exceptional wear resistance to ensure long-lasting performance.



Wheel Bearing

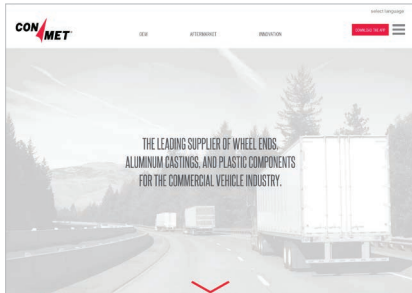
ConMet tapered bearings are manufactured for improved durability and extended life in even the most aggressive heavy vehicle applications.

Fully Serviceable and Ready to Rebuild

ConMet PreSet and PreSet Plus hubs are fully serviceable and built to last for the life of the vehicle. Use only official ConMet components for the longest possible service intervals.

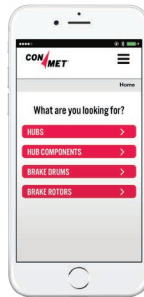
PRODUCT & SERVICE SPOTLIGHT

ConMet Online and Mobile Tools



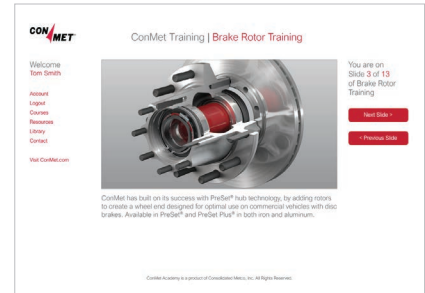
Informative Website

Visit us online to find ConMet product information including wheel ends, plastics, and castings. You can also access valuable resources like our online parts catalog, hub training program, and product literature. conmet.com



Wheel End Aftermarket App

The ConMet Aftermarket app is available on both mobile and desktop platforms, and will help you find the necessary replacement hub or service parts for your needs - fast. conmet.com/app



ConMet Hub Training

ConMet interactive training will help you become a wheel end expert. Take the training course and get ConMet certified. conmet.com/training

ConMet Aftermarket Components



Service & Rebuild Kits

If hub replacement is not an option, genuine PreSet®/PreSet Plus® Hub Service Kits allow you to reset your hubs to their PreSet factory settings.



Wheel Bearings

ConMet tapered bearings are manufactured for improved durability and extended life in even the most aggressive heavy vehicle applications.



Wheel Seals

ConMet's seals have superior contaminants protection and exceptional wear resistance to ensure long-lasting performance.



Spindle Nuts

PreSet Plus® spindle nuts ease hub installation, provide infinite adjustability, and improve clamp load retention.

