



**PILOT  
SLEEVE™**  
ADVANCED CENTERING PRODUCTS



**SAVE FUEL.  
SAVE TIRES.  
IMPROVE SAFETY.**

*NOW AVAILABLE  
in 20mm & 22mm  
Sizes!*



[www.PilotSleeve.com](http://www.PilotSleeve.com)  
**1-800-328-4460**

Brochure Version  
PS022021

*Learn what our*  
**REVOLUTIONARY**  
*centering products can do for your safety...*  
*and for your bottom line!*



*Shown with OEM-style flange nut.*

## WHAT ARE PILOT SLEEVE™ CENTERING INSERTS?

Pilot Sleeve™ centering inserts are a U.S. patented & international patent pending wheel centering system that works in conjunction with your OEM-style two-piece flange nuts. The unique self-sizing & non-corrosive inserts are made to take-up the gap between the stud and the wheel opening, effectively re-centering the wheel to the hub bearing.

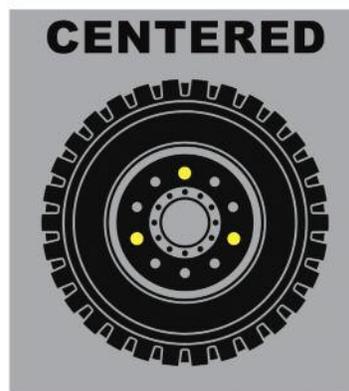
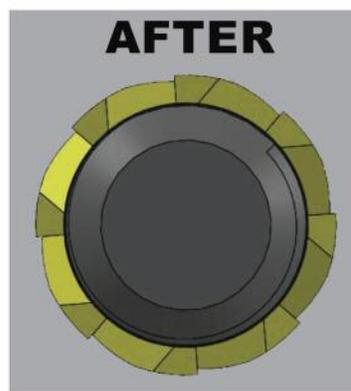
## WHY ARE PILOT SLEEVE™ PRODUCTS NECESSARY?

Over time, hub pilots can become worn or damaged, and lose tolerances originally intended from the factory. This can allow an offset between the wheel, the studs and the hub bearing.

In fact, an offset the thickness of just a couple business cards can result in out-of-tolerance radial wheel runout. Radial runout contributes to excess tire wear, increased fuel consumption, driver fatigue and even the possibility of loosening lug nuts.



## HOW DO PILOT SLEEVE™ INSERTS WORK?

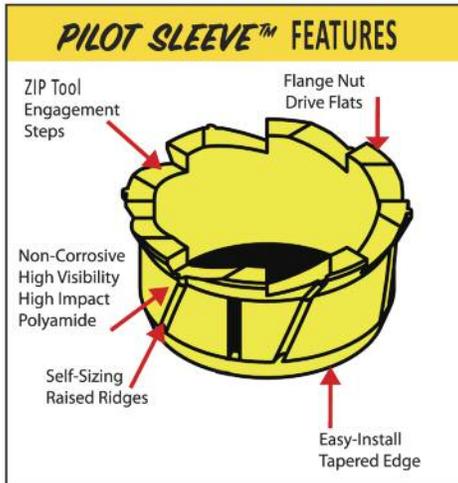


When installed on a minimum of 3 opposing studs, Pilot Sleeve™ centering inserts work to re-center the wheel to the hub bearing.

# WHY CHOOSE PILOT SLEEVE™ OVER OTHER BRANDS?

At a fraction of the cost of competitive brands, Pilot Sleeve™ wheel centering inserts promote proper lug nut clamping force, while counteracting runout that can lead to dangerous wheel “clocking” and potential wheel-off conditions.

Compatible with all wheel configurations; Steer Wheels, Drive Wheels, Steel Wheels and Aluminum Wheels. No decisions to make!



- Re-centers hub piloted wheels with worn or damaged pilots
- Eliminates radial wheel runout and reduces risk of “wheel off” conditions
- Polyamide material will not degrade, corrode or harm wheels
- Reduces tire wear, while improving fuel economy
- A fraction of the price of competitive products

## HOW ARE PILOT SLEEVE™ INSERTS SOLD?



**PILOT SLEEVE™**  
CLAMSHELL PACK OF  
6 PIECES

20mm Studs:  
SKU# WCS-20-6C

22mm Studs:  
SKU# WCS-22-6C

**PILOT SLEEVE™**  
BUCKET OF 100 PIECES

20mm Studs:  
SKU# WCS-20-100

22mm Studs:  
SKU# WCS-22-100



**PILOT SLEEVE™**  
BUCKET OF 1,000  
PIECES

20mm Studs:  
SKU# WCS-20-1000

22mm Studs:  
SKU# WCS-22-1000

Includes (1) free ZIP  
Installation/Removal Tool

**PILOT SLEEVE™**  
ZIP

INSTALLATION/REMOVAL TOOL  
SKU# 88-2200



INSTALLATION



REMOVAL

For use with  
20mm & 22mm  
Pilot Sleeve™ Insert Sizes



Pilot Sleeve™ ZIP Tool REQUIRED for installation on INSIDE DUAL WHEELS.  
One complimentary ZIP tool is included with each bucket of 1000 Pilot Sleeve™ inserts.



# HOW TO INSTALL PILOT SLEEVE™ INSERTS

1. Install tire/wheel assembly completely onto the hub.
2. Install Pilot Sleeve™ centering inserts over studs.
3. Drive inserts into position, fully engaging the wheel, using 2 piece flange nuts or by using the ZIP installation/removal tool.
4. Lightly torque flange nuts on the same studs you've installed each Pilot Sleeve™ insert.
5. Install remaining flange nuts, then torque all flange nuts to manufacturer's specifications.

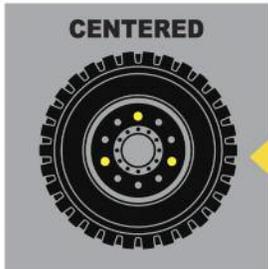


Flange Nut Installation



Installation/Removal Tool

**PILOT SLEEVE™ CENTERING INSERTS**



**INSTALL A MINIMUM OF 3 WHEEL CENTERING INSERTS, ON OPPOSING STUDS, IN A TRIANGLE PATTERN.**



**ZIP INSTALLATION/REMOVAL TOOL IS REQUIRED FOR INSTALLATION ON INSIDE DUAL WHEELS.**

**The Self-Sizing Raised Ridges are compromised after initial installation**

**- NEVER REUSE A PILOT SLEEVE™ INSERT AFTER IT HAS BEEN INSTALLED -**

Please recycle or dispose of used Pilot Sleeve™ wheel centering inserts responsibly.

## Testimonials:

"We started using Pilot Sleeve as soon as we heard about the product. We did the first 25 trucks over several months with great success. We now automatically use them for every steer tire replacement. With over 100 trucks and new ones coming, we saved time and money!"

Bob S., Triangle Warehouse

"I saw this at the Truck show, talked to the rep and got info from them. I tried the product and now recommend them to anyone I talk to about this. Very worth the money."

Roy J., 3 Trak Trucking LLC

## SAFE. CENTERED.

**At a fraction of the cost of competitive products.**

## WHO IS PILOT SLEEVE™ FOR?

**Fleets, OEM's & Drivers all enjoy increased fuel economy, tire life, & safety when utilizing Pilot Sleeve™ wheel centering inserts.**



A Stempf Automotive Industries, Inc. product

Nationwide Toll Free 1-800-328-4460  
Minneapolis Local 1-952-931-9117  
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### Members:

