

Perry Foam Products
Industry Leading
One Piece Stud Washer

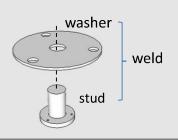


New:

Perry Foam Products commitment to quality backup sanding pads has allowed the company to flourish for over five decades of service.

# **HOW CAN WE IMPROVE ON 50 YEARS OF QUALITY PADS?**

By engineering our future and foundation.





**AFTER** 

# runout, & concentricity MORE & IMPROVED RIVETS

for strength & balance

EXCLUSIVE ONE PICE STUD for perpendicularity,

# **BEFORE**

# Issues:

- Weld meant non-perpendicularity leads to runout, vibration
- Washer to Stud non- concentricity leads to balance and vibration

# Advantages:

- Once piece
- Homogeneous metallurgy
- Reproducible and Repeatable tight tolerances.
- Past issues solved

# Perpendicularity **Improves Hub Assembly Runout** 0.040 0.035 0.030 .⊑ 0.025 0.020 0.015 Runout 0.010 61% Improvement 0.005 Cpk 1.936 Before 0.000 Cpk 4.092 After Production Run, samples



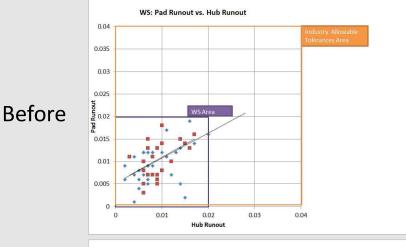
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## **BEST IN CLASS**

Why is the One Piece design so important to Perry Foam and the industry?

- Best in Class design means superior quality.
- · Best in Class means more sales.
- Best in Class means that our Tool Manufacturing clients can offer the "perception" of improved Tool Quality a Best in Class sanding performance!
- PFP Rolled out this design in 2014.
- Since 2014 at least 2 competitors have changed their design to emulate ours.
- Neither were able to match our outcomes.

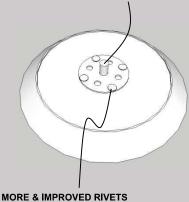


After

### OPSW: Pad Runout vs. Hub Runout Industry 0.04 Standard 0.035 0.03 0.025 Weld Stud Pad Runout Standard 0.01 One Piece 0.005 Standard 0.03 0.04 **Hub Runout**

# New:

FIGURE ONE PICE STUD for perpendicularity, runout, & concentricity



for strength & balance