

Product Information

Wear Protection for the Worn Shaft

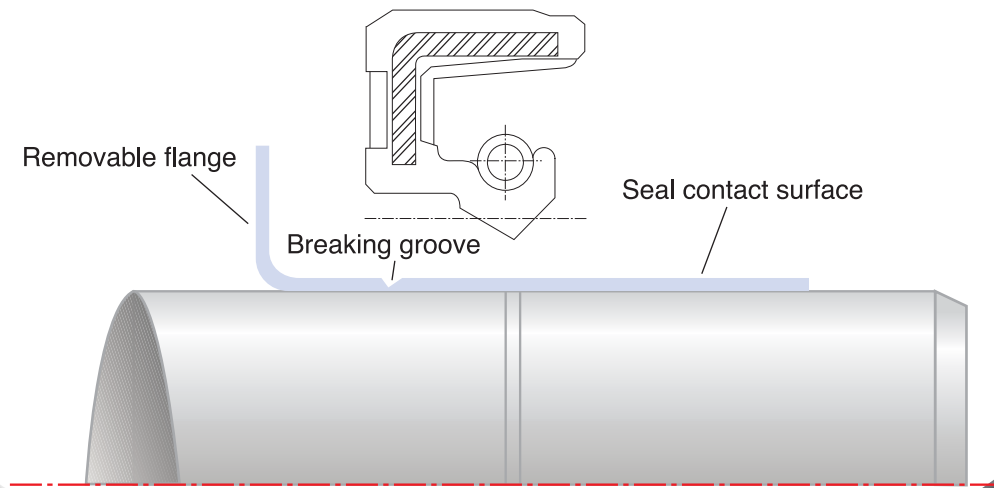
NAK WEAR-PRO Shaft Repair Sleeve

is a highly engineered steel sleeve made of high-quality stainless steel with precise finish and hardness. It is an easy way for the repair and protection of worn shafts. With it there is no need for the time-consuming and expensive traditional shaft repairing processes such as disassembling and machining the shaft. Simply push **WEAR-PRO** Sleeve in position with the installation tool readily supplied and the work is done. After installing **WEAR-PRO** Sleeve the same size of seal can continue to be used.

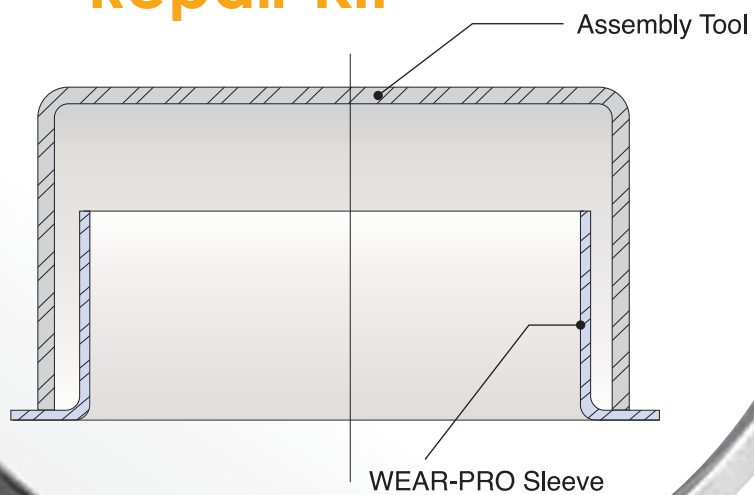


● Product Description

Easy and economical way to repair and protect worn shafts



● WEAR-PRO Shaft Repair Kit



Features

- Simple and quick installation
- Cost saving; no need to re-machine the worn shaft, or replace with a new shaft
- Very thin-walled design allows the same size of seal to be used; no need to change seal size
- Precise surface finish achieved by advanced plunge grinding technology
- High-grade surface hardness to ensure abrasion resistance
- NAK offers a wide range of sizes

Technical Information

Material and Specification

Material : Sleeve - SAE 30304;

Assembly tool - JIS G3302 SGCC

Wall Thickness : 0.28 mm 0/-0.05

Surface roughness :

- Ra 0.20~0.80 μm
- Rz 1~5 μm
- Rmax under 6.3 μm max

Surface hardness : Over HV 220 min



WEAR-PRO Shaft Repair Kit



• Plastic Holder

• Tool

• Sleeve

• Color Box

• Installation Instruction



Picture 1



Picture 2



Picture 3



Picture 4

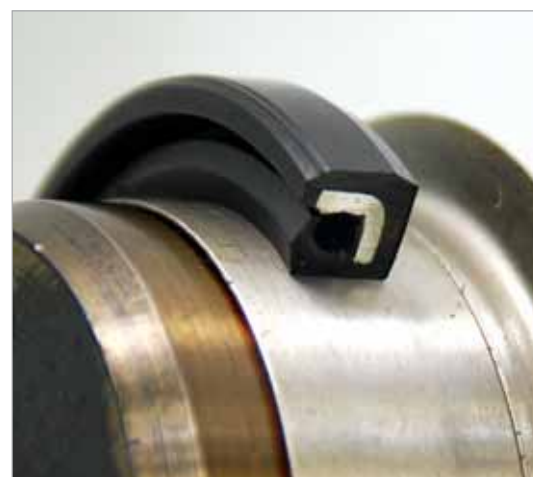
Installation

Time Saving at Assembly Step

1. Clean the worn shaft and remove the burrs.
2. Measure the shaft diameter and choose a suitable sleeve size. (Picture 1.)
3. Put sleeve onto the top of the shaft. (Picture 2.)
4. Put the assembly tool over the sleeve. If the tool supplied with the sleeve is too short, a length of pipe or tubing can substitute.
5. Pound gently the assembly tool until the worn area is covered by the sleeve. (Picture 3.)
6. The sleeve flange could be kept unless the clearance of application is required. If it needs to be removed, one pre-cut on the sleeve flange by cutter should be done prior to step 4. And the pre-cut should end at the tearing groove. The pre-cut process should be done carefully to avoid harming the seal contact surface. (Picture 4.)
7. Check again if there is any burr on the sleeve that might harm the seal.
8. Lubricate the sleeve.
9. Proceed with seal installation.

Disclaimer

1. NAK product are prohibited to use, install or apply in or on any aerospace related instrument and equipment.
2. NAK has no liability under any express or implied warranty if the Products:
 - are modified or tampered;
 - are misused, abused or misapplied;
 - are used in a critical environment or specific equipment without NAK's prior written acknowledgement;
 - are not used in accordance with the printed user instruction materials.
 - are damaged owing to natural deterioration, decomposition or transformation of chemical structure.
3. If the Products are to be applied in critical environment or specific equipment, it is only allowed to launch into mass production when the sample has been officially confirmed by NAK technical personnel and has been passed the testing conducted by Buyer.



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