



Maintenance is made simpler,  
easier and safer with Harlsan's  
game-changing wear bend.



## Enhanced Durability & Productivity with Wearlok®

One of our prominent customers, previously reliant on a competitor's wear bends, faced persistent maintenance challenges across their rigs. Seeking a solution to enhance drilling efficiency and streamline maintenance, they turned to Harlsan for an alternative.

Following an enlightening site visit, our team customized the Wearlok® wear bend to fit their rig specifications precisely. By adjusting the inlet and outlet to align with their setup, we ensured a seamless integration. This customised Wearlok® was installed on a single rig and subjected to a rigorous trial over several months.

The results were remarkable. Our wear bend exceeded expectations in terms of durability, productivity, efficiency, and ease of maintenance. Even in the most aggressive ground, it demonstrated significantly longer wear-life and extended maintenance intervals.

Our customer reported that maintenance became both simpler and safer. The Wearlok's® design, requiring only two bolts for removal, significantly reduced maintenance time and effort.

Impressed by the results, our customer has expanded the use of Wearlok® wear bends across more rigs, to further enhance on-site productivity and operational efficiency.

### Outcomes:



#### Reduced maintenance requirements:

Not only was maintenance far easier and quicker, but the inspection intervals were increased.



#### Significantly improved wear-life:

The new wear bend lasted longer and reduced wear factors on the rig's main impact area. This reduced rig downtime and boosted productivity.



#### Increased productivity on-site:

Contract work was unimpeded by unnecessary downtime. The equipment facilitated longer drilling time and more metres drilled per day.

### AT A GLANCE

#### Challenges:

- **Maintenance Issues**  
Maintenance on the rig was cumbersome.
- **Downtime Impact**  
Frequent maintenance was causing downtime that affected rig profitability.
- **Short Wear-Life**  
Aggressive ground was compromising equipment wear-life and putting strain on the main impact area.
- **Complexity Impacting Teams**  
Complex wear bend design required teams to spend longer periods at height during maintenance, compromising safety and causing strain.

#### Successes:

- **Simplified Maintenance**  
Maintenance became simpler and therefore requisite checks were more likely to be conducted without delay.
- **Longer Service Intervals**  
Unexpected downtime was significantly reduced, so maintenance intervals increased.
- **Extended Wear-Life**  
Wear on the main impact area was reduced. This meant the abrasive ground did not impede drilling productivity.
- **Team Safety Improved**  
Teams enjoyed simpler and easier maintenance.

## Your rig, optimised.

Harlsan's world class equipment and innovative engineering combine to optimise your rig's profitability and make ongoing maintenance quicker, safer and easier. Our setup is **game-changing** and we will work closely with you to ensure a seamless integration.

### 1 Wearlok® wear bend



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| YOUR SETUP                           | For example   | Notes |
|--------------------------------------|---|-------|
| Rig Make & Model                     |   |       |
| Drill String Size                    | - 3", 3½", 4", 4½"<br>- Custom  |       |
| Sample Hose Size                     | - 2", 3", 4"  |       |
| Existing Wear Bend Model?            |   |       |
| Drilling Method                      | - Air core<br>- RC hammer   |       |
| Position                             | - Drill head<br>- Cyclone   |       |
| Hose Connection / Outlet             | - 4 ½" ACME<br>- 6" ACME<br>- 4 NPT<br>- Custom                           |       |
| Blow Down or Swivel Coupling / Inlet | - 4 ½" ACME Knock-on nut<br>- 6" ACME Knock-on nut<br>- Flange<br>- Other |       |
| Angle                                | - 60 Deg<br>- 90 Deg  |       |
| Further Detail                       |   |       |



**HARLSAN**

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