MHWirth’s active heave compensator for drilling (AHC-WD) significantly reduces well cost by mitigating weight on bit variation. It optimizes drilling operations and increases the efficiency of the drilling rig.

In drilling operations, the passive heave compensator system has static and dynamic frictions. Depending on the rig heave, this can result in relatively high weight on bit (WOB) variations in the drilling process, and related to this, a negative impact on drilling performance and equipment wear, especially on the drill bit.

With a new algorithm, our AHC-WD combines the functionalities of the passive and the active compensator systems, and maximizes the compensation effect during drilling.

The AHC-WD makes the drilling process run significantly smoother, and improves drilling efficiency in many ways:

- With an increased operational window for drilling and coring operations, as well as higher drilling speed, it increases the effective drilling time and rate of penetration (ROP)
- AHC-WD minimizes the weight on bit (WOB) variation and therefore increases the drill bit’s life time
- A lower and more stable Derrick Drilling Machine (DDM) torque reduces wear of the DDM and drill bit

We understand, that the crew's competence is a key success factor to use new functionalities efficiently. This is why our experienced specialists will train your drill crew thoroughly after installation and testing.

Benefits

- Reduced wear on drill bit due to lower WOB variation
- Less stress on the DDM and drill string due to lower and more stable DDM torque
- More controlled drilling; the driller can focus on other important tasks
- Enables increased rate of penetration (ROP)
- More controlled directional drilling due to less WOB variation
- Extended weather window during drilling and coring operations
Rig performance data proves that MHWirth’s AHC-WD leads to more stable and lower WOB variations, to more stable DDM torque and increased rate of penetration (ROP), and therefore drilling performance is enhanced too.