

Bad conditions of leg guides will lead to leg misalignment and contribute to high Rack Phase Difference (RPD), which can result in the following:

- Cracks in welds between structural members.
- Buckling of bracings.
- Shearing off of rack and pinion teeth.
- Damage to the drives (e.g., internal planetary gear damage, damage to pinion gears, shearing off of shaft keys, etc.).

Our expertise has identified several root causes of common leg guide cracks and failures:

- Poor weld bonding on the wear plate.
- Insufficient welding strength on the wear plate.
- Interference with the leg chord.

To address these challenges, we have implemented the following enhancements:

- Re-engineered the welding procedure and material selection to improve bonding strength.
- Increased the volume of welding by 60%.
- Redesigned the wear plate position to avoid potential interference.

Find Out What We Can Do For You.  
[marketing@seahercules.com.sg](mailto:marketing@seahercules.com.sg)

