

## Technical Bulletin 001 -

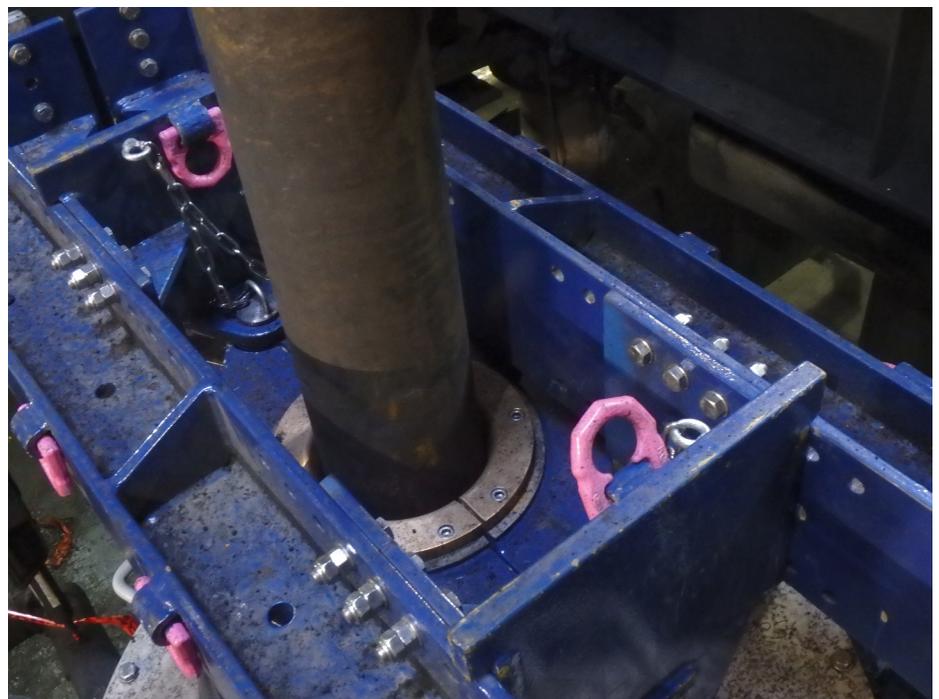
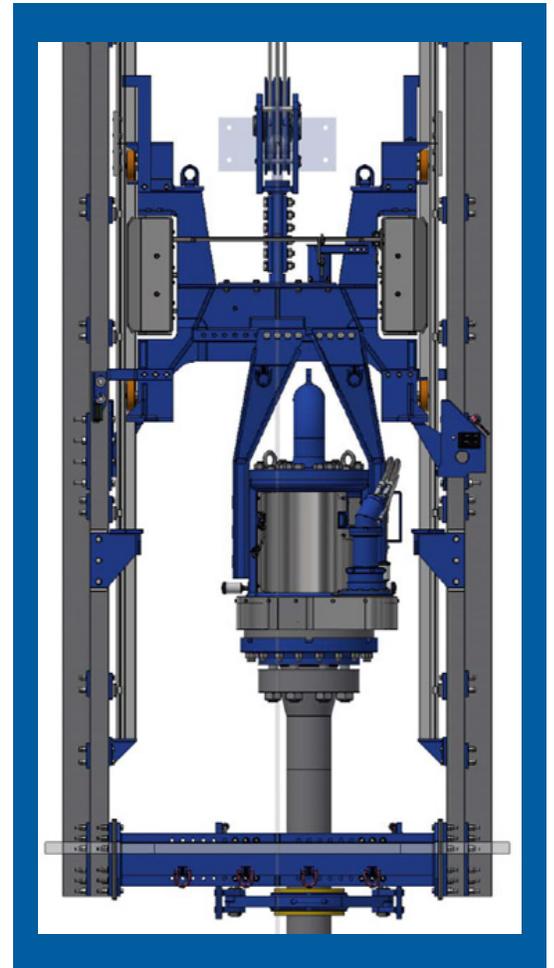
# Offset Crosshead and Guide Device

**Do you have a drum with Banana Effect?  
Contact Ruhrpumpen today for a complimentary  
feasibility study to see if the Ruhrpumpen Offset  
Crosshead and Guide Device is right for you.**

Coke drums, over time, will develop permanent thermal distortion due to how the feed enters the drum. Consistent uneven skin temperatures from one side of the drum to the other results in this permanent thermal distortion known as “banana effect”, where the drum is actually distorted into a “banana” shape.

In some extreme cases, banana effect will cause interference of the drill stem and the top unheading device or top flange of the drum, leading to excessive forces on the decoking system components.

**Solution:** In addition to our standard Crosshead, Ruhrpumpen offers an Offset Crosshead with Offset Drill Stem Guide Device which provides incremental adjustment to relieve mechanical interference due to banana effect.



Photos courtesy of Canadian National Resources Limited.

For more information about the Ruhrpumpen Offset Crosshead and Offset Guide Device, please contact any of our Decoking Specialists via the group email [Decoking@Ruhrpumpen.com](mailto:Decoking@Ruhrpumpen.com).