



Additional Power for Pipe Pullback.

The newly developed Herrenknecht Pipe Thruster is an auxiliary device for Horizontal Directional Drilling Technology and extends its field of application. The Thruster is mounted at the exit point and helps to push the entire pipeline into the ground. It is particularly suited for extremely long pipelines, very large diameters or difficult geological conditions. Depending on the project the Pipe Thruster can be used as a support tool, a rescue tool or as a pipe installation tool. After finishing the pilot hole and the reaming procedures using

a HDD Rig the Pipe Thruster assists during the pipe pull. The Pipe Thruster is mounted at the exit point and pushes the product pipe into the enlarged hole while the Rig is pulling the pipe. This simultaneous process will reduce the stresses on the drillpipe and the product pipe.

Beside improved safety the Pipe Thruster allows drill lengths of more than 3,000m and makes the use of big pipe diameters more common.



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Innovative Solution: The Pipe Thruster

Range of Application

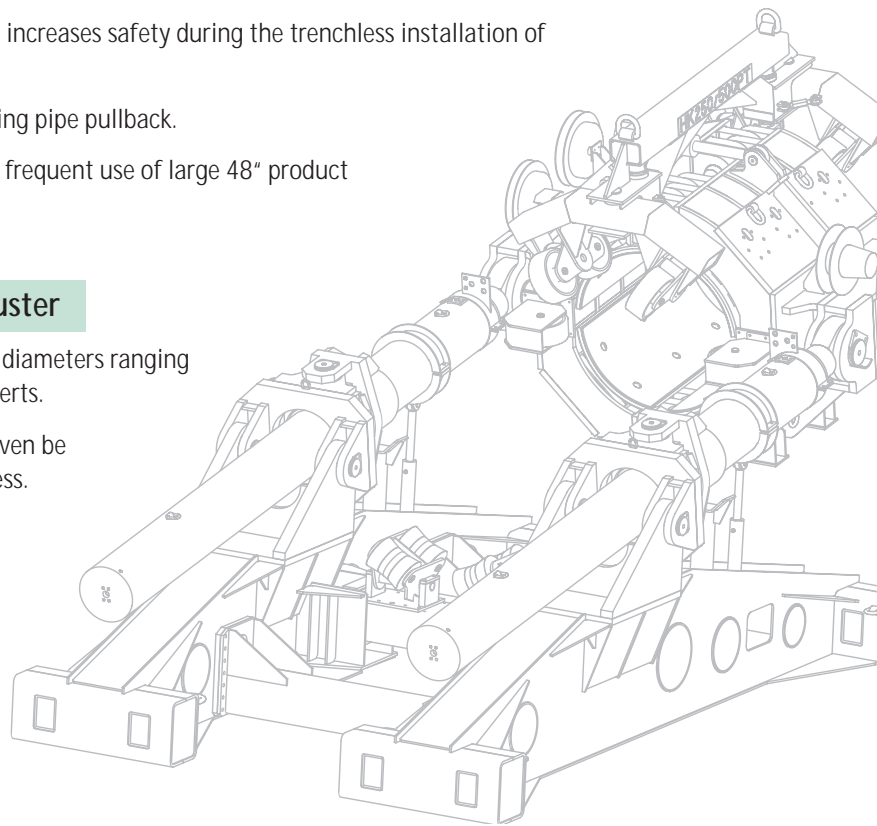
- Support of the HDD process during pipe pullback.
- Sea Outfall projects: ashore thrusting of the product pipeline.
- Rescue Tool for the recovery of stucked pipelines, e.g. in difficult geological conditions.

Advantages of the Method

- The deployment of the Pipe Thruster allows to add a push force from the exit point to the pull force of the HDD Rig.
- The flexible load distribution at the entry and exit point increases safety during the trenchless installation of pipelines considerably.
- Reduced stress for drill pipes and rigsite equipment during pipe pullback.
- Increase of drill lengths to more than 3,000m and more frequent use of large 48" product pipe diameters.

Advantages of the Herrenknecht Pipe Thruster

- The Herrenknecht Pipe Thruster can be used for all pipe diameters ranging between 20" and 48" by just changing the clamping inserts.
- Due to a tilting clamping device the Pipe Thruster can even be installed when the pipeline pullback is already in progress.
- The clamping device is suitable for all types of pipelines and coatings.
- The modular design does not require special cargo transports.



Technical Data

Pipe Thruster

- Operating angle: 5° - 15°
- Push and pull force (normal): 250t (2,500kN)
- Push and pull force (maximum): 500t (5,000kN)
- Min. clamp diameter: 20" (508mm)
- Max. clamp diameter: 48" (1,219mm)
- Max. speed: 5m/min.
- Stroke of push/pull cylinder: 5,000mm
- Dimensions: 9 x 4.1 x 4.4m
- Weight: 45t

Power Unit

- Dimensions: 20ft container
- Installed power: 400kW
- Weight: 10t
- Remote control and hydraulic hoses to the Pipe Thruster are included.