## VERMEER D20X22 FS400 10’

## Supplying the market with premium drill pipe.



Premier horizontal directional drill rod is a premium manufactured product. We start with 4137H extra wearresistant bar stock and heat treat the tool joints to oilfield API S135 specifications for ultimate fatigue resistance.

The tool joints are machined to exact specifications and matched with precision fabricated tube bodies.

The tubes are cut to length from a 4100 alloy series, high chrome-moly seamless tube and are forged, heat treated and machined to compliment the tool joints.

The components are then inertia welded, producing an uncompromisable weld. This process is the exact same which is used throughout the world for oilfield drill pipe manufacturing.
The rod is then MAG particle inspected to ensure the integrity of the weld. It is because of our attention to detail that our rods can be used with confidence as it is subjected to the combined loads of pull/thrust, bending and torque produced from the drill rig.

We supply other drill rods to suit most OEM rigs.

| General |  |
| :---: | :---: |
| HDD compatibility | Vermeer D20x22, D24×26* |
| Thread form | Vermeer \#400 |
| Dimensions |  |
| Tube OD | 52.4 mm |
| Tube WT | 6.9 mm |
| Tool Joint OD | 57.2 mm |
| Tool Joint ID | 20.7 mm |
| Rod Length | 3.279 m |
| Weights |  |
| Rod | 25.4 kg |
| Performance |  |
| Bend Radius*, min. | 39.9m |
| Bending Ratio*, max. ( ${ }^{\text {p }}$ ( ${ }^{\text {a }}$ rod) | $4.7{ }^{\circ}$ |
| Built Ratio*, max. (\% slope per rod) | 8.2 |
| Yield Torque ( $\mathrm{N}-\mathrm{m}$ ) | 3,959 |
| Make-up Torque ( N -m) | 2,375 |
| Tensile Strength ( N ) | 658,337 |
| * Vermeer \& D20x22 \& D24×26 are trademarks of Vermeer Manufacturing Company. |  |
| ${ }^{* *}$ Bend limits are valid only for pure bending (no other loads acting at the same time, e.g. Push/Pullback, etc). |  |
| Note: The information provided here a warranty or quality certificate. Prem the right to change this data at any ti | eneral data. This data is not Drill Products LLC retains or product improvement. |

