

How Can Horizontal Directional Drilling UAE Improve Modern Utility Projects?

Modern utility projects often need to pass beneath roads, highways, railways, waterways, and developed areas. Traditional open excavation can disturb traffic, existing infrastructure, and the surrounding area. Trenchless construction offers another option by allowing underground pipelines and utilities to be installed with less surface disturbance.

Horizontal Directional Drilling UAE uses a steerable drilling process to create an underground path for pipelines, conduits, or cables. The method can be used for oil and gas pipelines, water systems, sewerage, electrical services, and telecommunications. It is also suitable for road, railway, highway, and water channel crossings.

Less disruption to existing areas

One of the main benefits of HDD is that much of the work takes place underground. This can reduce the need for open trenches across roads and other active areas. It can also help limit surface restoration work after installation.

For urban and congested utility zones, this approach can be useful where existing infrastructure makes excavation difficult. Road crossing projects can be completed beneath highways and arterial roads while keeping the surface infrastructure in use.

Suitable for different ground conditions

HDD systems can be used across different site conditions, including sand, clay, hard rock, and underwater environments. The available equipment includes different drilling capacities for medium and larger crossing requirements.

The company website states that its equipment includes HDD rigs with capacities reaching 360 tons, along with systems designed for long-distance crossings and large pipeline installations.

Better control during drilling

Accuracy is important when drilling beneath existing infrastructure. Advanced tracking systems can monitor the bore path and help engineers control the direction of the drill.

The ParaTrack system described on the website provides real-time monitoring and supports accurate tracking during complex crossings. It is designed to work in environments where magnetic interference may be present.

Applications across utility projects

The method can support several infrastructure requirements, including

- Oil and gas pipeline installation
- Water and sewerage pipelines
- Electrical and telecommunications infrastructure
- Road and highway crossings
- Railway crossings
- Water channel and marine crossings
- Utility installation in congested areas

Project examples listed on the website include a 2,700 LM gas pipeline crossing at Sahil and Asab, a 2,925 LM Road E311 project, and water crossings at Saadiyat and Ramhan Island.

About the Company

The company is an ADNOC pre-qualified NDRC and HDD contractor based in Abu Dhabi. It provides trenchless construction services for oil and gas, water, sewerage, electricity, telecommunications, and utility crossings. Its capabilities include HDD, turnkey solutions, guidance and tracking systems, utility detection, planning, and survey support. The company works on road, highway, railway, marine, and other complex crossings using specialised drilling equipment and experienced technical teams.

Horizontal directional drilling can help modern utility projects reduce surface disturbance while allowing pipelines and utilities to pass beneath existing infrastructure. Its use across roads, railways, waterways, and congested areas makes it a practical option for many underground installations. For trenchless drilling requirements in the UAE, contact **Inframax** to discuss your project.

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