

THE UNDERGROUND UTILITIES EVENT | JANUARY 25-27, 2022 | FORT WORTH, TEXAS

Supporting the Workforce with the Evolution of HDD Technology

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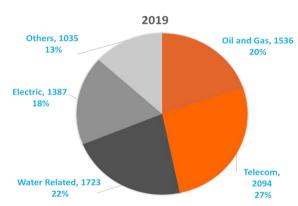
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Intro

- The underground construction industry is facing a workforce shortage.
- Historically, OEMs have focused innovations on machine power. Today, advancements are focused on jobsite efficiency to combat the workforce shortage.

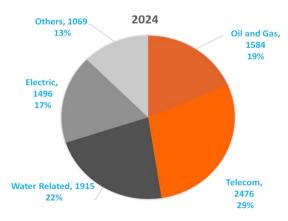
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HDD Market Growth- Pre vs Post Covid



2019-2024 CAGR	
Oil and Gas	0.62%
Telecom	3.41%
Water Related	2.14%
Electric	1.52%
Others	0.65%





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HDD Market Growth- Pre vs Post Covid

2022-2027 est CAGR's

> Telcom 6%-9%

Data Centers 9%- 30% (EU)

➤ Water/Sewer 5%-7%

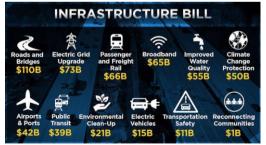
Electric >6% (non EV)

Renewables 8%

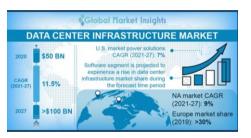
➢ Oil & Gas 3%-4%













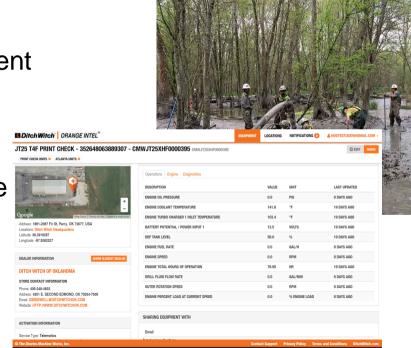


*Global Market Insights

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Industry Issues and Needs

- Cross Bore
- Labor Force
- IR Inadvertent Returns
- Mud Disposal/Management
- Crowded Easements
- Obstacle Avoidance
- Abandoned Infrastructure
- Critical Utility Strikes
- Data Management





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Enhance Productivity with Modern HDD Technology

- Horizontal directional drills
 - CAN BUS
 - Telematics
 - Wireless controls
- Mud systems/Reclaimers
 - Remote technology
 - Mud Disposal
- Tooling/Dill pipe
 - Dual pipe technology (Rock drilling)
 - Bits, Reamers, Housings





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Enhance Productivity with Modern HDD Technology





- Improve and simplify maintenance activities
- Understand and optimize the performance of their workforce
- Improve planning and purchasing decisions



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Summary

- The underground construction industry is facing rapidly growing demand for work with a smaller workforce – more than ever before.
- Fixing this problem will require many different tactics, and manufacturers are doing their part by evolving machines to meet the needs of the workforce.
- HDD manufacturers are developing technology in drilling, mud systems and tooling to enhance effectiveness, efficiency and safety.