

2023 North American Trench Shoring Equipment Rental Market

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Table of Contents

- I. Research Scope, Methodology..... 4
- II. Segmentation by type of equipment and end user..... 6
- III. Executive Summary 10
 - a. Revenues by end user..... 11
 - b. Major Data Points 12
 - c. North American Trench Shoring Equipment Rental Market Revenues, 2022 & 2029 13
 - d. Major trends 14
 - e. Market drivers..... 15
 - f. Market restraints..... 17
 - g. Main market participants..... 19
- IV. Market Drivers..... 20
- V. Market Restraints..... 27
- VI. Market Trends..... 33
 - a. Increasing rental rates..... 34
 - b. Training on trench safety..... 35
 - c. Repair of trench shoring equipment..... 36
 - d. Use of automatic attachment system..... 37
 - e. Inflatable shoring..... 38

Table of Contents

- VII. Market data..... 39
 - a. North American Trench Shoring Equipment Rental Market revenues (2022-2029)..... 40
 - b. United States Trench Shoring Equipment Rental Market revenues (2022-2029)..... 42
 - c. Canada Trench Shoring Equipment Rental Market (2022-2029)..... 43
 - d. North American Trench Shoring Equipment Rental Market revenues by equipment type (Slide Rail, Trench Shield, Road Plates, Hydraulic Shoring) 44
 - e. North American Trench Shoring Equipment Rental Market revenues by end user (2022)..... 46
 - f. North American Trench Shoring Equipment Rental Market revenues by end user (2029)..... 47
- VIII. Competitive Landscape..... 48
 - a. North American Trench Shoring Equipment Rental Market share by company, 2022..... 49
 - b. Major M&A in the trench shoring equipment rental market. 50
 - c. Competitive factors..... 51
 - d. Quotes from the industry..... 52
- IX. Company Profiles..... 53
 - a. United Rentals, Inc..... 54
 - b. National Trench Safety, LLC..... 57
 - c. Sunbelt Rentals, Inc..... 59
- X. About Verify Markets 62

North American Trench Shoring Equipment Rental Market

Scope of Research

This study aims to provide a detailed analysis of the North American Trench Shoring Equipment Rental Market along with qualitative trends for the year 2022.

The market numbers included in this report represent revenues generated by companies operating in the power rental market in the United States and Canada. The base year for the study is 2022 and the forecast period is from 2022 until 2029.

This study captures the following information on the North American Trench Shoring Equipment Rental Market:

- Market Size, Growth Rate, Revenue Forecasts (2022-2029)
- Growth Drivers & Restraints
- Market Data
- Market Share Analysis
- Market Trends
- Quotes by Key Industry Participants

Methodology

Interviews with key market participants

The methodology adopted while creating this research involved conducting interviews with various key market participants, enabling Verify Markets to identify various trends in the North American Trench Shoring Equipment Rental Market. Furthermore, discussions with industry participants enabled us to provide a comprehensive country-level view of the overall market. Next, the information was validated through our internal databases, market experts, and secondary sources. The collected information was structured and collated into this report.



Macro-economic factors and industry parameters

Various country level parameters including the GDP, construction spending, industrial spending, oil & gas prices, sales and rental revenues, among others, were taken into consideration in our forecasting model. An in-depth analysis of such factors enabled Verify Markets to size and forecast the North American Trench Shoring Equipment Rental Market. As an added exercise, Verify Markets backs into market size estimates by counting dealerships and incorporating revenue assumptions based on proximity to metropolitan area.

North American Trench Shoring Equipment Rental Market

Segmentation by type of equipment

Shoring Shields

- ✓ Shoring shields and boxes are indispensable tools in the trench shoring industry. Made primarily of steel, these tools have been designed to make working in trenches safer and more efficient.
- ✓ Shoring shields offer continuous protection from the trench wall, which helps prevent cave-ins and soil collapses that can injure workers and damage the work area.
- ✓ Trench boxes are easy to move and set into place using the same equipment used to excavate the trench. This makes shields the preferred option for linear utility installations and pipeline work, where they can be dragged along with the excavation process.
- ✓ The key advantage of shoring shields over trench jacks is that they provide a clear, unobstructed workspace. Trench jacks, with their struts and supports, can often get in the way and slow down work. Moreover, in deeper excavations that exceed 16 feet, workers tend to feel much more comfortable working inside shoring shields than using trench jacks.
- ✓ Due to their extensive use in pipeline and pit construction, their low purchase cost as compared to long-term rentals, and their minimal maintenance requirements, contractors tend to own more shoring shields than any other piece of shoring equipment.



North American Trench Shoring Equipment Rental Market

Segmentation by type of equipment



Road Plates

- ✓ Road plates are commonly used to cover trenches and open pits in streets and can be likened to simply supported steel bridge decks. Steel plate trench covers have been employed since the late 1800s, and today, it is standard practice to completely cover them when not in use. The expectation is that the road will be as smooth and drivable as it was prior to construction.
- ✓ Typically, road plates are loaded and transported to the job site with the use of a boom truck. Once installed, they serve as temporary bridges, allowing traffic to pass over the excavation site safely. As such, they must be sturdy enough to withstand heavy loads and constant wear and tear.
- ✓ It is critical to use high-quality road plates that are of sufficient thickness and are able to handle the anticipated loads. Proper installation is also essential to ensure that the road plates remain stable during use.

Segmentation by type of equipment

Hydraulic Shoring

- ✓ Hydraulic shoring, also referred to as trench jacks or vertical shores, is a trench shoring technique that utilizes hydraulic pistons to exert force against the walls of the trench.
- ✓ Constructed of aluminum, hydraulic shoring has been utilized in North America since the early 1950s, offering a significant technological upgrade over traditional timber shoring.
- ✓ One of the key advantages of hydraulic shoring is that it can be installed and removed from outside the trench, mitigating the need for workers to enter an unshored excavation.
- ✓ Moreover, hydraulic shoring is renowned for its rapid installation process, which can be carried out by a single worker in tandem with the excavation. This efficiency allows shoring time to be significantly reduced and contributes to substantial cost savings.
- ✓ While the design has undergone minimal changes, multiple manufacturers produce interchangeable parts for the shoring system, including the rail, pin, cylinder block, hydraulic cylinder, and hydraulic hoses.



North American Trench Shoring Equipment Rental Market

Segmentation by type of equipment



Slide Rail Systems

- ✓ The slide rail shoring system represents a significant advancement in shoring technology, particularly in areas with problematic soil conditions where traditional dig-and-set shoring systems, such as trench jacks and shoring shields, are unsuitable due to soil collapse before shoring installation.
- ✓ This innovative system consists of a vertical rail post and panel specifically designed to slide relative to each other for ease of installation into the ground. First introduced to the United States in the early 1980s in the East Coast and Gulf states, where soft marine clays are abundant, the slide rail system was heavily promoted by select shoring rental companies after substantial financial investment.
- ✓ Since then, the slide rail system has become widely accepted as an effective alternative to other shoring systems. In fact, slide rail is often the most cost-effective option in situations where dig-and-set shoring systems are no longer feasible.

North American Trench Shoring Equipment Rental Market

Segmentation by end user



Water, wastewater, and storm infrastructure

Includes underground pipelines for transportation of drinking water, pipes, and other infrastructure which are a part of a storm drain system and waste or sewer water from drains and other sources.



Oil & Gas distribution infrastructure

Includes planning, construction, operation, and maintenance of storage tanks and pipelines for distribution of oil and natural gas.



Transport infrastructure

Refers to the planning, construction, operation, and maintenance of roads, bridges and tunnels, and underground railroads, among others.



Electrical utility

Comprised of power utility companies using shoring equipment for underground utility work. Underground utility construction today utilizes many “trenchless” construction and rehabilitation procedures that greatly reduce the need to dig trenches or excavations to install and maintain buried infrastructure. Nonetheless, the bulk of utility work continues to be done by conventional cut-and-cover methods, requiring wide, deep, man-entry trenches.

The BIL's investments in water infrastructure (\$55 billion), transportation infrastructure (\$590.7 billion), and grid expansion (\$13.0 billion) are expected to drive demand for trench shoring rental equipment in the water and wastewater, transportation, and utility sectors, respectively. This significant investment will support the growth of construction and maintenance projects, enhancing the need for reliable rental equipment.

About Verify Markets



Verify Markets

About us

Expert Advice and Strategy Consulting

Verify Markets is a Research Firm specializing in Industrial, Environmental, Energy and Water markets. Our Research & Consulting practice provides global industry analysis, custom engagements, end-user analysis, strategy consulting, strategic market intelligence, and forecasts that are designed to facilitate strategic decision-making. Our team of consultants, industry experts and analysts continually monitor and evaluate information to create insights for your business needs. We are comprised of a group of analysts that have been tracking their respective markets for a number of years.

Our goal is to help you reach yours.

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Methodology

The methodology when formulating market trend projection is outlined below.
 Historical trends were determined through secondary research and Verify Markets in-house database.

Secondary Research

Secondary research was conducted. A list of key industry participants was put together.



Primary Research

Telephonic interviews were conducted. Most of the leading participants across North America were contacted.

Bottom-up

Bottom-up methodology was used to calculate the market size.



Drivers & Restraints

Market drivers and restraints were built into the forecasting model to estimate the revenue growth and market size figures.

Most of the primary interview data was captured through telephonic interviews. Pictures, company contacts, preliminary data was captured through secondary research. Images are derived from company websites and other web sources.



Disclaimer

Despite Verify Markets' best efforts, certain challenges were encountered, and certain assumptions had to be made. The extremely competitive nature of the trench shoring equipment rental market often results in an increased reluctance on the part of several competitors to discuss their market position, future plans, or market trends. Verify Markets used its skills and experience to extract the relevant data in order to complete the analysis.

Verify Markets is not responsible for any incorrect information supplied to us by companies during our primary research process.

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