

# Tubular Strander Global Market Insights 2026, Analysis and Forecast to 2031

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## Abstracts

### Introduction

The global wire and cable manufacturing industry heavily relies on sophisticated, highly engineered rotating machinery to produce the critical infrastructure necessary for power transmission, telecommunications, and heavy industrial lifting. At the very core of this manufacturing ecosystem is the tubular strander. A tubular strander is a highly specialized piece of capital equipment engineered to twist or 'strand' multiple individual metallic wires—predominantly aluminum, copper, or steel—into a single, robust, and highly flexible composite conductor or wire rope. Mechanically, the machine is characterized by a massive, perfectly balanced cylindrical tube or rotor. Inside this rotating tube, a series of cradles hold individual wire bobbins. As the tube rotates at exceptionally high velocities (often exceeding a thousand revolutions per minute depending on the machine size), the wires are drawn along the inside or outside of the tube, converging at a closing die where they are twisted together under precise tension.

The fundamental engineering advantage of a tubular strander over alternative stranding technologies—such as rigid stranders or planetary stranders—is its sheer speed and high production throughput. Because the bobbins themselves are held stationary relative to the rotating axis (they do not rotate end-over-end, but rather the tube rotates around them), the machine avoids the massive centrifugal forces that would otherwise limit operational speed. This makes tubular stranders indispensable for producing long, continuous lengths of stranded wire with high efficiency.

In the contemporary industrial macroeconomic environment, the demand for high-performance tubular stranders is undergoing a robust expansion. This surge is fundamentally driven by a global supercycle in infrastructure investment. The

modernization of aging electrical grids, the massive integration of renewable energy sources (which require extensive new subsea and overland cabling), the exponential growth of data centers demanding high-bandwidth telecommunications infrastructure, and the rapid proliferation of electric vehicles (EVs) are collectively pushing wire and cable manufacturers to expand their production capacities. To meet these downstream demands, cable manufacturers are aggressively investing in new, highly automated capital equipment. Supported by these profound global trends, the market size for tubular stranders is projected to reach an estimated valuation range of 292 million USD to 542 million USD in the year 2026. Looking forward, the industry is anticipated to demonstrate sustained and resilient growth, registering a Compound Annual Growth Rate (CAGR) estimated between 4.2% and 6.0% through the year 2031, reflecting continuous technological innovation and robust replacement cycles for legacy machinery.

## Regional Market Analysis

The geographical landscape of the tubular strander market is highly diverse, reflecting varying regional priorities in industrialization, energy transition, and infrastructure modernization.

**North America:** The North American market is projected to experience a steady CAGR estimated between 3.5% and 5.2%. The United States and Canada are in the midst of a critical infrastructure overhaul. Decades-old high-voltage transmission lines require urgent replacement to handle increased loads and prevent grid failures. This is driving immense demand for Aluminum Conductor Steel Reinforced (ACSR) cables, subsequently fueling capital expenditures for heavy-duty tubular stranders. Furthermore, the region is witnessing a localization of critical supply chains. To mitigate geopolitical risks, North American manufacturers are expanding domestic wire and cable production facilities, requiring state-of-the-art, high-throughput stranding machinery equipped with advanced automation and safety controls.

**Asia-Pacific:** As the manufacturing and industrial engine of the global economy, the Asia-Pacific region is anticipated to register the highest growth rate, with an estimated CAGR ranging from 5.5% to 7.5%. The market is anchored by unparalleled infrastructure expansion, massive urbanization, and aggressive rural electrification programs in major economies such as China and India. China's deployment of Ultra-High Voltage Direct Current (UHVDC) transmission lines requires unprecedented volumes of stranded aluminum and steel

conductors. Furthermore, in technologically advanced regions such as Taiwan, China, the continuous expansion of high-tech manufacturing, semiconductor fabrication, and consumer electronics necessitates precision power and communication cables, driving consistent demand for highly precise, low-tension copper tubular stranders.

**Europe:** The European market is estimated to expand at a CAGR of 4.0% to 5.8%. The trajectory of the European market is heavily dictated by the region's aggressive transition toward renewable energy. The North Sea offshore wind boom requires massive quantities of highly specialized subsea power cables. European cable manufacturers are consequently investing heavily in advanced tubular stranders capable of operating with zero defect tolerances. Additionally, Europe imposes the world's most stringent occupational health and machinery safety directives (such as the CE Machinery Directive). This regulatory environment forces manufacturers to frequently upgrade legacy equipment to newer models that feature advanced acoustic enclosures for noise reduction and highly sophisticated interlocking safety mechanisms.

**Middle East and Africa (MEA):** This region is projected to experience an estimated CAGR of 3.8% to 5.5%. Growth is predominantly concentrated in the Gulf Cooperation Council (GCC) countries, where economies are actively diversifying away from oil dependency through mega-projects and smart city developments. The construction of massive new urban centers and localized power grids in Saudi Arabia and the UAE requires vast amounts of electrical cabling, driving regional cable manufacturers to import high-capacity tubular stranding equipment. In Africa, ongoing electrification initiatives and telecommunications expansion provide a steady, albeit price-sensitive, demand for durable machinery.

**South America:** The South American market is anticipated to exhibit an estimated CAGR of 3.2% to 4.8%. Market expansion in this region is inextricably linked to its massive mining and commodity extraction industries, particularly in Chile, Peru, and Brazil. The deep-shaft mining sector requires exceptionally strong, large-diameter steel wire ropes for hoists, draglines, and material handling elevators. Consequently, the demand in South America heavily skews toward ultra-heavy-duty tubular stranders specifically engineered to handle the extreme tensile strengths and rigidities of high-carbon steel wire.

## Applications, Types, and Segmentation Analysis

To fully understand the commercial dynamics of the tubular strander market, an analysis of its segmentation by pay-off type and material application is essential.

### Type Segmentation:

**Fixed Pay-Off Stand:** The fixed pay-off stand represents the traditional and most widely utilized configuration in the industry. In this setup, the structures holding the un-stranded supply bobbins are bolted securely to the factory floor. This design offers unparalleled structural rigidity, vibration dampening, and mechanical alignment, which are absolutely critical when the main tube is rotating at high speeds. Fixed stands are the preferred choice for massive, continuous production runs where bobbin changeovers are infrequent. The prevailing trend in this segment is the integration of advanced, motorized tension control mechanisms that electronically adjust the braking force on the bobbin as its diameter decreases, ensuring a perfectly uniform tension profile throughout the entire production run.

**Mobile Pay-Off Stand:** The mobile pay-off stand segment is experiencing accelerated growth, driven by the modern manufacturing imperative to maximize Overall Equipment Effectiveness (OEE) and minimize costly machine downtime. In this configuration, the pay-off stands are mounted on automated rail systems or automated guided vehicle (AGV) tracks. While the strander is operating, operators can load a second set of mobile pay-off stands with full bobbins offline. Once the current run is complete, the empty stands are mechanically shunted away, and the pre-loaded mobile stands are instantly moved into position. This drastically reduces changeover times from hours to minutes. This type is highly favored in flexible manufacturing facilities that produce highly diversified, lower-volume, mixed-SKU cable batches.

### Application Segmentation:

**Aluminum Wire:** Aluminum is the undisputed material of choice for high-voltage overhead power transmission and distribution lines due to its excellent conductivity-to-weight ratio and cost-effectiveness compared to copper. Tubular stranders processing aluminum must be designed to operate at maximum speeds to fulfill immense volume requirements. The defining technological trend

in this segment is the adaptation of stranders to process specialized aluminum alloys (such as All Aluminum Alloy Conductor - AAAC) and trapezoidal-shaped wires (TW). Stranding trapezoidal wires requires highly specialized closing dies and ultra-precise tube synchronization to create tightly compacted conductors that minimize gaps, thereby increasing the current-carrying capacity of the final cable without increasing its overall diameter.

**Copper Wire:** Copper is the primary conductor for residential building wire, industrial power cables, telecommunications, and automotive wiring harnesses. Copper wire is significantly heavier and more expensive than aluminum, and it is highly susceptible to elongation (stretching) if subjected to excessive mechanical pulling. Therefore, tubular stranders utilized for copper applications are engineered with a paramount focus on highly sensitive, closed-loop electronic tension control systems. The rapid growth of the electric vehicle (EV) sector is a massive catalyst for this segment. EVs require thick, multi-stranded copper cables to connect high-voltage battery packs to electric motors, necessitating flawless stranding to prevent internal resistance and heat generation.

**Steel Wire:** The stranding of high-carbon steel wire caters to the heavy industrial sector, producing wire ropes for cranes, elevators, suspension bridges, and automotive tire cords. Steel wire is incredibly rigid and possesses a highly abrasive surface. Tubular stranders designed for steel applications require massive, forged steel main tubes, oversized ultra-heavy-duty bearings, and wear-resistant tungsten carbide guiding components. The machinery must exert tremendous mechanical force to permanently deform and twist the steel wires into their final helical shape. A major trend in this segment is the demand for specialized stranders capable of producing compacted steel wire ropes, which offer higher breaking loads and extended fatigue life for deep-water offshore oil and gas mooring applications.

## Industry and Value Chain Structure

The tubular strander market operates within a highly sophisticated, multi-tiered value chain that merges heavy mechanical engineering with advanced automation and precise materials science.

**Research, Development, and Engineering:** The value chain originates with intense mechanical engineering. Given the massive rotational kinetic energy of a

tubular strander, R&D departments utilize advanced Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) to model rotor dynamics, aerodynamic drag, and acoustic emissions. Engineers focus on identifying the perfect alloy compositions for the main tube to maximize strength while minimizing weight, thereby reducing the energy required for acceleration and deceleration.

**Raw Material and Component Sourcing:** The procurement phase is highly specialized. Manufacturers require massive, seamless steel forgings or advanced carbon-fiber composite materials to construct the main tube. Sourcing ultra-precision, high-speed, heavy-duty roller bearings is perhaps the most critical supply chain vulnerability. These bearings must support a tube weighing several tons rotating at high velocities, requiring highly specialized oil-mist lubrication systems to prevent catastrophic thermal failure.

**Machining, Manufacturing, and Assembly:** The core competency of strander manufacturers lies in the ultra-precision machining of the central tube. The tube must undergo rigorous dynamic balancing procedures, strictly adhering to standards such as ISO 1940. Even a microscopic imbalance can cause severe rotational vibration, leading to rapid bearing destruction, compromised wire quality, and extreme safety hazards. Following machining, the assembly process integrates the mechanical components with variable frequency drives (VFDs), servo motors, and advanced programmable logic controllers (PLCs).

**System Integration and Software:** Modern tubular stranders are not standalone mechanical devices; they are intelligent nodes within a smart factory. System integrators program the complex electronic line shafting, ensuring that the rotation of the tube is perfectly synchronized with the speed of the linear pulling capstan to guarantee a precise and consistent wire lay length.

**Distribution and Commissioning:** Manufacturers typically distribute their equipment via direct technical sales forces to cable and wire rope factories globally. The commissioning phase is complex, requiring manufacturers to send specialized engineering teams to the end-user's facility to pour concrete foundations, align the machinery using laser precision, and conduct extensive site acceptance testing (SAT).

**Aftermarket Services and Lifecycle Support:** The aftermarket is a highly lucrative component of the value chain. Operating under extreme stresses, tubular

strandings require continuous preventative maintenance. Manufacturers provide genuine replacement wear parts (such as ceramic or tungsten carbide wire guides), bearing replacement services, acoustic enclosure upgrades, and remote diagnostic monitoring subscriptions to ensure maximum uptime.

## Competitive Landscape and Enterprise Information

The global tubular strander market is highly consolidated at the premium tier, characterized by the presence of deeply entrenched legacy European manufacturers, highly competitive Asian engineering firms, and specialized North American machinery builders. Key industry participants driving the technological baseline include SKET Verseilmaschinenbau, SARVASV, MFL GROUP, Bartell Machinery, Jiangsu Jiacheng Technology, HEFEI SMARTER TECHNOLOGY, Miyazaki Machinery Systems, Pioneer Machinery, ABZ Smart Technology, and Zenith Weldaids.

These capital equipment manufacturers operate in direct response to the massive consolidation and strategic realignments occurring downstream among their primary clients—the global wire, cable, and connectivity giants. Massive downstream M&A activity fundamentally alters the purchasing power and capital expenditure strategies of the end-users, driving demand for the most advanced, high-throughput stranding machinery capable of supporting mega-factory operations:

Highlighting the strategic consolidation in the specialty cable sector, on January 2, 2025, Mattr Corp. officially closed its acquisition of AmerCable Incorporated. Integrated into Mattr's Connection Technologies segment, this transaction involved acquiring all outstanding shares from Nexans USA Inc. for US\$280 million. As entities like Mattr expand their footprint in highly demanding industrial and mining cable markets, their reliance on robust, precision capital equipment such as high-capacity tubular stranders for specialized copper and steel wire processing increases proportionately.

The integration of wire products and automation control systems is also accelerating. On April 2, 2025, TKO Miller—a leading middle-market investment bank—announced that IEWC, a massive global supplier of wire, cable, and wire management products, acquired Bevco Engineering Company, Inc. This acquisition of an industry-leading electrical control systems designer underscores a broader industry trend where wire suppliers are moving up the value chain into integrated automated systems. This integration demands

absolute perfection in the foundational stranded wire products, pushing wire manufacturers to upgrade their core stranding machinery to ensure zero-defect output.

The telecommunications and connectivity infrastructure segment is witnessing historic restructuring. On August 4, 2025, CommScope entered into a definitive agreement to sell its Connectivity and Cable Solutions (CCS) segment to Amphenol Corporation for a staggering \$10.5 billion in cash. Expected to close in the first half of 2026, this monumental transaction consolidates massive cable manufacturing capacity under Amphenol. Mega-entities of this scale require extreme manufacturing efficiency across their global footprint, driving bulk procurement of state-of-the-art, IoT-enabled tubular stranders capable of continuous, high-speed data cable production.

Furthermore, on October 6, 2025, Prysmian—one of the absolute dominant forces in the global cable industry—completed the acquisition of Channell Commercial Corporation for a base purchase price of \$950 million, with an additional potential earnout of up to \$200 million based on 2025 EBITDA targets. As Prysmian aggressively expands its North American thermoplastic enclosure and fiber/power management portfolio, the underlying requirement for vastly expanded stranded power and communication cables dictates extensive ongoing capital investments in primary rotating machinery, directly benefiting top-tier tubular strander OEMs like MFL GROUP and SKET.

## Market Opportunities and Challenges

### Opportunities:

**Electrification and Renewable Energy Supercycle:** The transition to green energy presents an unprecedented opportunity. Offshore wind farms, massive solar arrays, and international grid interconnectors require thousands of kilometers of newly manufactured, heavily stranded subsea and underground high-voltage cables. Machinery manufacturers that can supply ultra-high-speed, large-capacity tubular stranders capable of operating continuously to fulfill these massive order backlogs are perfectly positioned for immense revenue growth.

**Industry 4.0 and Predictive Maintenance:** The integration of Industrial Internet of Things (IIoT) technologies offers a profound opportunity for differentiation.

Tubular stranders represent critical bottlenecks in cable factories; an unexpected bearing failure can halt an entire plant. By outfitting machinery with smart sensors that monitor real-time vibration signatures, bearing temperatures, and motor torque anomalies, manufacturers can offer subscription-based predictive maintenance software. This shift allows OEMs to generate recurring aftermarket revenue while guaranteeing their clients maximum machine availability.

**Advanced Materials and Carbon Fiber Tubes:** Traditional heavy steel tubes limit the maximum rotational speed due to centrifugal stress and extreme power consumption. An emerging opportunity lies in the development of main rotor tubes manufactured from advanced carbon fiber composites. These lightweight tubes require significantly smaller drive motors, consume far less electricity, and can achieve substantially higher RPMs, drastically increasing production throughput while lowering the carbon footprint of the manufacturing facility.

#### Challenges:

**High Initial Capital Expenditure and Lifecycle Costs:** Tubular stranders are massive, highly complex pieces of capital equipment requiring substantial upfront financial investment. Furthermore, the installation process requires significant facility modifications, including reinforced concrete foundations and dedicated heavy-duty electrical substations. For small to medium-sized cable manufacturers, navigating this intense capital expenditure requirement and calculating long-term ROI in the face of fluctuating copper and aluminum prices remains a persistent challenge.

**Extreme Engineering Tolerances and Noise Mitigation:** The physical physics of rotating massive multi-ton metal tubes at high speeds presents severe engineering barriers. Maintaining perfect dynamic balance over years of operation is incredibly difficult. Additionally, tubular stranders generate deafening acoustic noise and severe ground vibration. Complying with increasingly strict global occupational noise exposure limits (such as OSHA in the US or European directives) forces manufacturers to engineer massive, expensive acoustic enclosures, which increases the machine's footprint and complicates operator access for threading and maintenance.

**Supply Chain Vulnerabilities for Critical Components:** The manufacturing of high-

end tubular stranders is deeply dependent on a highly specialized, globalized supply chain. The industry relies heavily on a handful of global suppliers for the ultra-precision, high-speed, heavy-duty bearings capable of supporting the main rotor. Disruptions in global logistics, geopolitical trade tensions, or shortages in specialized forged steels can cause severe manufacturing delays, extending lead times for capital equipment and straining relationships with downstream cable manufacturers.

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