

Global Prestressed Concrete Single Wires Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Prestressed Concrete Single Wires market size was valued at US\$ 1322 million in 2024 and is forecast to a readjusted size of USD 1795 million by 2031 with a CAGR of 4.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Prestressed Concrete Single Wires are high-strength steel wires used individually (not stranded) in prestressed concrete applications to impart tensile strength and control cracking under service loads. These wires are typically cold-drawn or stress-relieved (or both) and are tensioned before or after concrete is cast to induce compressive stress, thereby enhancing structural performance. Commonly used in precast concrete elements, bridges, poles, pipes, and railway sleepers, they conform to standards such as ASTM A421, BS 5896, or EN 10138, and are available in various diameters (typically 3 mm to 9 mm) with surface finishes like plain, indented, or ribbed.

Prestressed Concrete Single Wires are high-tensile steel wires typically ranging from 3.0 mm to 9.0 mm in diameter, with cross-sectional areas between 7 mm² and 64 mm². They exhibit ultimate tensile strengths of 1570–1860 MPa, elongation at maximum load of 3.5%, and a modulus of elasticity around 195,000 MPa. Available in plain, indented, or spiral ribbed surfaces, these wires are designed to enhance bonding and stress transfer in concrete structures. Low-relaxation variants ensure relaxation losses of 2.5% over 1,000 hours at 70% stress. Supplied in coils or straight lengths, they are rust-protected and packaged to meet construction requirements in infrastructure,

precast, and transportation projects.

This report is a detailed and comprehensive analysis for global Prestressed Concrete Single Wires market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Prestressed Concrete Single Wires market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Prestressed Concrete Single Wires market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Prestressed Concrete Single Wires market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Prestressed Concrete Single Wires market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Prestressed Concrete Single Wires

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Prestressed Concrete Single Wires market

based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bekaert, Sumiden Wire, Nippon Steel SG Wire, Kiswire, ArcelorMittal, Tata Steel, JFE Steel, Siam Industrial Wire, Fapricela, Deacero, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Prestressed Concrete Single Wires market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plain Wires

Indented Wires

Ribbed Wires

Market segment by Application

Construction

Railway

Others

Major players covered

Bekaert

Sumiden Wire

Nippon Steel SG Wire

Kiswire

ArcelorMittal

Tata Steel

JFE Steel

Siam Industrial Wire

Fapricela

Deacero

Insteel Industries

Kinwey PC Wire

The Mayatec

British Steel

Macalloy

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Prestressed Concrete Single Wires product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Prestressed Concrete Single Wires, with price, sales quantity, revenue, and global market share of Prestressed Concrete Single Wires from 2020 to 2025.

Chapter 3, the Prestressed Concrete Single Wires competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Prestressed Concrete Single Wires breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Prestressed Concrete Single Wires market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Prestressed Concrete Single Wires.

Chapter 14 and 15, to describe Prestressed Concrete Single Wires sales channel, distributors, customers, research findings and conclusion.

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