

Global GNSS Choke-Ring Antenna Market Growth 2026-2032

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Abstracts

The global GNSS Choke-Ring Antenna market size is predicted to grow from US\$ 112 million in 2025 to US\$ 154 million in 2032; it is expected to grow at a CAGR of 3.5% from 2026 to 2032.

In 2025, global GNSS Choke-Ring Antenna production reached approximately 35,625 units?with an average global market price of around US\$ 3,200 per unit, and a gross profit margin of approximately 20%-40%. GNSS Choke-Ring Antennas are high-precision satellite positioning antennas designed to receive multi-frequency and multi-constellation GNSS signals while suppressing multipath interference. They use a circular choke-ring structure to reduce reflected signals from the ground or nearby objects, improving phase center stability, positioning accuracy, and long-term measurement reliability. These antennas are widely used in geodetic reference stations, CORS networks, crustal deformation monitoring, precision surveying, meteorology, timing systems, scientific research, and infrastructure monitoring. They support satellite constellations such as GPS, GLONASS, Galileo, BeiDou, QZSS, and SBAS. The industrial chain of GNSS Choke-Ring Antennas includes upstream RF chips, low-noise amplifiers, filters, ceramic antenna elements, metal choke rings, radomes, connectors, cables, sealing materials, precision machining parts, and testing equipment. The midstream includes antenna design, RF circuit integration, phase center calibration, multipath suppression structure processing, environmental sealing, assembly, performance testing, quality control, and certification. Downstream applications include surveying and mapping, geodetic monitoring, CORS stations, seismic monitoring, deformation monitoring, timing systems, transportation infrastructure, defense positioning, meteorological observation, and scientific research networks. Related services include calibration, installation, maintenance, firmware support, antenna replacement, and technical consulting.

United States market for GNSS Choke-Ring Antenna is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for GNSS Choke-Ring Antenna is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for GNSS Choke-Ring Antenna is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key GNSS Choke-Ring Antenna players cover Trimble, NovAtel, Calian, JAVAD GNSS, Harxon, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?GNSS Choke-Ring Antenna Industry Forecast? looks at past sales and reviews total world GNSS Choke-Ring Antenna sales in 2025, providing a comprehensive analysis by region and market sector of projected GNSS Choke-Ring Antenna sales for 2026 through 2032. With GNSS Choke-Ring Antenna sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GNSS Choke-Ring Antenna industry.

This Insight Report provides a comprehensive analysis of the global GNSS Choke-Ring Antenna landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GNSS Choke-Ring Antenna portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GNSS Choke-Ring Antenna market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GNSS Choke-Ring Antenna and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global GNSS Choke-Ring Antenna.

This report presents a comprehensive overview, market shares, and growth opportunities of GNSS Choke-Ring Antenna market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Single-Frequency GNSS Choke-Ring Antenna

Multi-Frequency GNSS Choke-Ring Antenna

Segmentation by Structural Dimension:

2D GNSS Choke-Ring Antenna

3D GNSS Choke-Ring Antenna

Segmentation by Performance Level:

Geodetic-grade

Scientific-grade

Others

Segmentation by Application:

Geological Survey and Engineering Surveying

Reference Stations

Aerospace

Scientific Research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Trimble

NovAtel

Calian

JAVAD GNSS

Harxon

Septentrio

Stonex

CHCNAV

ComNav Technology

Hi-Target

South Surveying

SingularXYZ

eSurvey

Tersus GNSS

Zhejiang JC Antenna

Topcon

Key Questions Addressed in this Report

What is the 10-year outlook for the global GNSS Choke-Ring Antenna market?

What factors are driving GNSS Choke-Ring Antenna market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GNSS Choke-Ring Antenna market opportunities vary by end market size?

How does GNSS Choke-Ring Antenna break out by Type, by Application?

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