

Global Equatorial Telescope Mounts Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF40CBDC4D52EN.html>

Date: January 2026

Pages: 131

Price: US\$ 4,480.00 (Single User License)

ID: GF40CBDC4D52EN

Abstracts

The global Equatorial Telescope Mounts market size is expected to reach \$ 265 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of equatorial telescope mounts across various applications are projected to reach approximately 102,000 units, with an average price of USD 1,450-1,850 per unit and a gross profit margin of approximately 32%-40%. The average selling price (ASP) for professional-grade models (carrying over 10 kg) and those with automated guide closed-loop control is significantly higher than that of entry-level models. By aligning the main axis with the Earth's rotation axis and independently driving and compensating for declination and right ascension, equatorial telescope mounts allow the telescope to rotate counter-clockwise at a constant speed along the right ascension direction during exposures, remaining stationary relative to the sky. This significantly reduces star trailing, distortion errors, and target offset in deep-sky object imaging, light curve acquisition, and high-resolution observation of planetary details. A typical setup consists of a highly stable frame structure (aluminum alloy/steel alloy), a high-precision gear transmission system (gearbox, spiral bevel gears, or coaxial planetary gears), right ascension/declination bearing assemblies, stepper/servo motors and encoders (for drive and error feedback), declination/right ascension axes and tripod support system, a controller (handheld controller or computer interface module), and a power supply system. General parameters include a load capacity of 3-30 kg, a periodic error of 5-30" (depending on gear precision and guiding system), a maximum torque of 10-60 N·m for the declination/right ascension axis, a tracking accuracy of 1-5" RMS, and polar alignment options of manual adjustment or automatic polar alignment. Typical usage includes: one amateur deep-sky photography system typically equipped with one equatorial telescope mount (with an 80-200 mm optical tube); research/educational institutions often configure 1-3 sets per observatory;

and astronomical clubs and small observatories typically have 2?8 sets. The platform is used to guide courses and public observation. Upstream, it mainly relies on high-precision steel and copper-based lubricants for gears/bearings, aluminum alloy/carbon fiber structural components, precision encoders and drive motors, controller electronics (MCU/FPGA/drive ICs), and standard tripod accessories; downstream, it focuses on amateur and professional astronomy enthusiasts, research institutions, observatory equipment manufacturers, education and science popularization centers, and DIY astronomy system integrators.

The equatorial telescope mount is made to improve the shortcomings of the horizon device. Its main purpose is to overcome the influence of the earth's rotation on stargazing. A set of standard astronomical telescopes often consists of telescopes, equatorial telescope brackets, tripods and other components. When the equatorial mount is used, its polar axis must first be aligned with the north celestial pole. (Ideally) After full alignment, the telescope is facing any star, and the declination does not need to be adjusted. It is only necessary to let the telescope rotate at a constant speed in the direction of right ascension (or hour angle) according to the speed of the stars. Keep the star in the field of view of the telescope at all times. The market for equatorial telescope mounts will grow as economic investment in astronomy education brings in more amateur astronomers.

This report studies the global Equatorial Telescope Mounts production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Equatorial Telescope Mounts and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Equatorial Telescope Mounts that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Equatorial Telescope Mounts total production and demand, 2021-2032, (K Units)

Global Equatorial Telescope Mounts total production value, 2021-2032, (USD Million)

Global Equatorial Telescope Mounts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Equatorial Telescope Mounts consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Equatorial Telescope Mounts domestic production, consumption, key domestic manufacturers and share

Global Equatorial Telescope Mounts production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Equatorial Telescope Mounts production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Equatorial Telescope Mounts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Equatorial Telescope Mounts market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rainbow Astro, ZWO, iOptron, Vixen, Losmandy, Hobbym Observatory, Pegasus Astro, Skywatcher, Sharpstar, Avalon Instruments, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Equatorial Telescope Mounts market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Equatorial Telescope Mounts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Equatorial Telescope Mounts Market, Segmentation by Type:

German Equatorial Mounts

English Equatorial Mounts

Horseshoe Equatorial Mounts

Others

Global Equatorial Telescope Mounts Market, Segmentation by Load:

5?7 kg

8?15 kg

16?25 kg

Others

Global Equatorial Telescope Mounts Market, Segmentation by Interface:

RJ-12

RJ-45

Others

Global Equatorial Telescope Mounts Market, Segmentation by Application:

Deep-Sky Astrophotography

Observatory Observation

Education and Scientific Research

Others

Companies Profiled:

Rainbow Astro

ZWO

iOptron

Vixen

Losmandy

Hobym Observatory

Pegasus Astro

Skywatcher

Sharpstar

Avalon Instruments

10Micron

Paramount

Bresser

Explore Scientific

Fornax

Key Questions Answered:

1. How big is the global Equatorial Telescope Mounts market?
2. What is the demand of the global Equatorial Telescope Mounts market?
3. What is the year over year growth of the global Equatorial Telescope Mounts market?
4. What is the production and production value of the global Equatorial Telescope Mounts market?

5. Who are the key producers in the global Equatorial Telescope Mounts market?
6. What are the growth factors driving the market demand?

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