

Global Vacuum Low Temperature Scanning Tunneling Microscopy Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

A scanning tunneling microscope (STM) is a type of microscope used for imaging surfaces at the atomic level. Its development in 1981 earned its inventors, Gerd Binnig and Heinrich Rohrer, then at IBM Z?rich, the Nobel Prize in Physics in 1986. STM senses the surface by using an extremely sharp conducting tip that can distinguish features smaller than 0.1 nm with a 0.01 nm (10 pm) depth resolution. This means that individual atoms can routinely be imaged and manipulated. Most scanning tunneling microscopes are built for use in ultra-high vacuum at temperatures approaching absolute zero, but variants exist for studies in air, water and other environments, and for temperatures over 1000 °C.

Scanning tunneling microscope operating principle

STM is based on the concept of quantum tunneling. When the tip is brought very near to the surface to be examined, a bias voltage applied between the two allows electrons to tunnel through the vacuum separating them. The resulting tunneling current is a function of the tip position, applied voltage, and the local density of states (LDOS) of the sample. Information is acquired by monitoring the current as the tip scans across the surface, and is usually displayed in image form.

A refinement of the technique known as scanning tunneling spectroscopy consists of keeping the tip in a constant position above the surface, varying the bias voltage and recording the resultant change in current. Using this technique, the local density of the electronic states can be reconstructed. This is sometimes performed in high magnetic fields and in presence of impurities to infer the properties and interactions of electrons in the studied material.

Scanning tunneling microscopy can be a challenging technique, as it requires extremely clean and stable surfaces, sharp tips, excellent vibration isolation, and sophisticated electronics. Nonetheless, many hobbyists build their own microscopes.

According to our (Global Info Research) latest study, the global Vacuum Low Temperature Scanning Tunneling Microscopy market size was valued at US\$ 3.4 million in 2023 and is forecast to a readjusted size of USD 6 million by 2030 with a CAGR of 5.7% during review period.

This report is a detailed and comprehensive analysis for global Vacuum Low Temperature Scanning Tunneling Microscopy 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 2024, are provided.

Key Features:

Global Vacuum Low Temperature Scanning Tunneling Microscopy market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global Vacuum Low Temperature Scanning Tunneling Microscopy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global Vacuum Low Temperature Scanning Tunneling Microscopy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global Vacuum Low Temperature Scanning Tunneling Microscopy market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2019-2024

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 Vacuum Low Temperature Scanning Tunneling Microscopy

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 Vacuum Low Temperature Scanning Tunneling Microscopy 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 Scienta Omicron, UNISOKU, CreaTec Fischer & Co, etc.

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

Market Segmentation

Vacuum Low Temperature Scanning Tunneling Microscopy market is split by Type and by Application. For the period 2019-2030, 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

With Magnetic Field

Without Magnetic Field

Market segment by Application

Scientific research Purpose

Educational Purposes

Business Purpose

Major players covered

Scienta Omicron

UNISOKU

CreaTec Fischer & Co

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 Vacuum Low Temperature Scanning Tunneling Microscopy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vacuum Low Temperature Scanning Tunneling Microscopy, with price, sales quantity, revenue, and global market share of Vacuum Low Temperature Scanning Tunneling Microscopy from 2019 to 2024.

Chapter 3, the Vacuum Low Temperature Scanning Tunneling Microscopy competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vacuum Low Temperature Scanning Tunneling Microscopy breakdown

data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and Vacuum Low Temperature Scanning Tunneling Microscopy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Vacuum Low Temperature Scanning Tunneling Microscopy.

Chapter 14 and 15, to describe Vacuum Low Temperature Scanning Tunneling Microscopy sales channel, distributors, customers, research findings and conclusion.

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