

Global Batch (Tubular) ALD Thin Film Deposition Equipment Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

Thin film deposition refers to the deposition of specific materials on the substrate to form a thin film with special optical, electrical and other properties. Film deposition equipment can be divided into physical vapor deposition (PVD), chemical vapor deposition (CVD) and atomic layer deposition (ALD) equipment according to different process principles, and can be divided into batch (tubular) and space (plate) technology routes according to different equipment forms. ALD technology is a special vacuum film deposition method, which has a high technical barrier. Through ALD coating equipment, the substance can be deposited on the substrate surface layer by layer in the form of monatomic layer. Each coating is an atomic layer. According to the atomic characteristics, the coating is about 1nm for 10 times/layer. Because the surface chemical reaction of ALD technology is self limited, it has a number of unique film deposition characteristics: 1. Three dimensional conformality, widely applicable to substrates of different shapes; 2. Uniformity of large-area film formation, and compact, without pinholes; 3. It can realize sub nanometer film thickness control. Based on the above characteristics, ALD technology is widely applicable to film deposition in different scenarios, and has good industrialization prospects in many high-end and cutting-edge fields such as photovoltaic, semiconductor, flexible electronics and other new displays, MEMS, catalysis and optical devices. This report studies the tubular ALD film deposition equipment.

According to our (Global Info Research) latest study, the global Batch (Tubular) ALD Thin Film Deposition Equipment market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

This report is a detailed and comprehensive analysis for global Batch (Tubular) ALD Thin Film Deposition Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Equipment Oxygen Source 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 2023, are provided.

Key Features:

Global Batch (Tubular) ALD Thin Film Deposition Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2018-2029

Global Batch (Tubular) ALD Thin Film Deposition Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2018-2029

Global Batch (Tubular) ALD Thin Film Deposition Equipment market size and forecasts, by Equipment Oxygen Source and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2018-2029

Global Batch (Tubular) ALD Thin Film Deposition Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2018-2023

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 Batch (Tubular) ALD Thin Film Deposition Equipment

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 Batch (Tubular) ALD Thin Film Deposition

Equipment 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 TEL, ASM, Lam, AMAT and KE, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Batch (Tubular) ALD Thin Film Deposition Equipment market is split by Equipment Oxygen Source and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Equipment Oxygen Source, 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 Equipment Oxygen Source

Water Vapor

Ozone

Market segment by Application

Photovoltaic

Semiconductor

Quantum Device

Other

Major players covered

TEL

ASM

Lam

AMAT

KE

NAURA Technology Group Co., Ltd.

Piotech Inc.

Advanced Micro-Fabrication Equipment Inc.

Jiangsu Leadmicro Nano Technology Co., Ltd.

ACM Research(Shanghai),Inc.

Beijing E-Town Semiconductor Technology Co., Ltd.

Shenzhen S.C New Energy Technology Corporation

Piotech Inc.

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:

Global Batch (Tubular) ALD Thin Film Deposition Equipment Market 2023 by Manufacturers, Regions, Type and Appl...

Chapter 1, to describe Batch (Tubular) ALD Thin Film Deposition Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Batch (Tubular) ALD Thin Film Deposition Equipment, with price, sales, revenue and global market share of Batch (Tubular) ALD Thin Film Deposition Equipment from 2018 to 2023.

Chapter 3, the Batch (Tubular) ALD Thin Film Deposition Equipment competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Batch (Tubular) ALD Thin Film Deposition Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Equipment Oxygen Source and application, with sales market share and growth rate by equipment oxygen source, application, from 2018 to 2029.

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 2017 to 2022. and Batch (Tubular) ALD Thin Film Deposition Equipment market forecast, by regions, equipment oxygen source and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Batch (Tubular) ALD Thin Film Deposition Equipment.

Chapter 14 and 15, to describe Batch (Tubular) ALD Thin Film Deposition Equipment sales channel, distributors, customers, research findings and conclusion.

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