

Global Thermal Evaporation Vacuum Coating Machine Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

https://marketpublishers.com/r/G82EC856D982EN.html

Date: July 2023 Pages: 118 Price: US\$ 3,480.00 (Single User License) ID: G82EC856D982EN

Abstracts

According to our (Global Info Research) latest study, the global Thermal Evaporation Vacuum Coating Machine 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.

Thermal evaporation is a well-known method for coating a thin layer in which the source material evaporates in a vacuum due to high temperature heating, which facilitates the vapor particles moving and directly reaching a substrate where these vapors again change to a solid state. In this method, a charge holding boat or resistive coil is used in the form of a powder or solid bar. In order to get the high melting points necessary for metals, the resistive boat/coil is exposed to a large direct current (DC), where the high vacuum (below 10?4 Pa) supports the evaporation of the metal and further carrying it to the substrate. This technique is specially applicable for material with low melting points. Thermal evaporation is also used to produce polymeric coatings. Thermal evaporation by resistive heating of polymers is limited by the low thermal conductivity of polymers. On the other hand, electron beam evaporation of organic materials is limited by the decomposition of the molecules. However, there are some applications where polymeric films have been grown successfully by thermal evaporation, such as PTFE and nylon in metal–polymer nanocomposite films.

This report is a detailed and comprehensive analysis for global Thermal Evaporation Vacuum Coating Machine 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 2023, are provided.

Key Features:

Global Thermal Evaporation Vacuum Coating Machine market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Thermal Evaporation Vacuum Coating Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Thermal Evaporation Vacuum Coating Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Thermal Evaporation Vacuum Coating Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 Thermal Evaporation Vacuum Coating Machine

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 Thermal Evaporation Vacuum Coating Machine 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 Satisloh, B?hler, Kolzer, CREAVAC and Semicore Equipment, 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

Thermal Evaporation Vacuum Coating Machine market is split by Type and by Application. For the period 2018-2029, 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

Physical Vapor Deposition (PVD)

Chemical Vapor Deposition (CVD)

Market segment by Application

Optics

Consumer Packaging

Major players covered

Satisloh

B?hler

Kolzer

CREAVAC

Semicore Equipment

ULVAC



Shincron

AIXTRON

Evatec

Jusung Engineering

Showa Shinku

Hanil Vacuum

CVD Equipment Corporation

Denton Vacuum

Zeiss

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 Thermal Evaporation Vacuum Coating Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Evaporation Vacuum Coating



Machine, with price, sales, revenue and global market share of Thermal Evaporation Vacuum Coating Machine from 2018 to 2023.

Chapter 3, the Thermal Evaporation Vacuum Coating Machine competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Evaporation Vacuum Coating Machine 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 Type and application, with sales market share and growth rate by type, 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 Thermal Evaporation Vacuum Coating Machine market forecast, by regions, type 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 Thermal Evaporation Vacuum Coating Machine.

Chapter 14 and 15, to describe Thermal Evaporation Vacuum Coating Machine sales channel, distributors, customers, research findings and conclusion.



Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Thermal Evaporation Vacuum Coating Machine

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Type: 2018 Versus 2022 Versus 2029

1.3.2 Physical Vapor Deposition (PVD)

1.3.3 Chemical Vapor Deposition (CVD)

1.4 Market Analysis by Application

1.4.1 Overview: Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Application: 2018 Versus 2022 Versus 2029

1.4.2 Optics

1.4.3 Consumer Packaging

1.5 Global Thermal Evaporation Vacuum Coating Machine Market Size & Forecast

1.5.1 Global Thermal Evaporation Vacuum Coating Machine Consumption Value (2018 & 2022 & 2029)

1.5.2 Global Thermal Evaporation Vacuum Coating Machine Sales Quantity (2018-2029)

1.5.3 Global Thermal Evaporation Vacuum Coating Machine Average Price (2018-2029)

2 MANUFACTURERS PROFILES

2.1 Satisloh

2.1.1 Satisloh Details

- 2.1.2 Satisloh Major Business
- 2.1.3 Satisloh Thermal Evaporation Vacuum Coating Machine Product and Services

2.1.4 Satisloh Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.1.5 Satisloh Recent Developments/Updates

2.2 B?hler

2.2.1 B?hler Details

2.2.2 B?hler Major Business

2.2.3 B?hler Thermal Evaporation Vacuum Coating Machine Product and Services

2.2.4 B?hler Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)



2.2.5 B?hler Recent Developments/Updates

2.3 Kolzer

2.3.1 Kolzer Details

2.3.2 Kolzer Major Business

2.3.3 Kolzer Thermal Evaporation Vacuum Coating Machine Product and Services

2.3.4 Kolzer Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 Kolzer Recent Developments/Updates

2.4 CREAVAC

2.4.1 CREAVAC Details

2.4.2 CREAVAC Major Business

2.4.3 CREAVAC Thermal Evaporation Vacuum Coating Machine Product and Services

2.4.4 CREAVAC Thermal Evaporation Vacuum Coating Machine Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 CREAVAC Recent Developments/Updates

2.5 Semicore Equipment

2.5.1 Semicore Equipment Details

2.5.2 Semicore Equipment Major Business

2.5.3 Semicore Equipment Thermal Evaporation Vacuum Coating Machine Product and Services

2.5.4 Semicore Equipment Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 Semicore Equipment Recent Developments/Updates

2.6 ULVAC

2.6.1 ULVAC Details

2.6.2 ULVAC Major Business

2.6.3 ULVAC Thermal Evaporation Vacuum Coating Machine Product and Services

2.6.4 ULVAC Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 ULVAC Recent Developments/Updates

2.7 Shincron

2.7.1 Shincron Details

2.7.2 Shincron Major Business

2.7.3 Shincron Thermal Evaporation Vacuum Coating Machine Product and Services

2.7.4 Shincron Thermal Evaporation Vacuum Coating Machine Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 Shincron Recent Developments/Updates

2.8 AIXTRON

2.8.1 AIXTRON Details



2.8.2 AIXTRON Major Business

2.8.3 AIXTRON Thermal Evaporation Vacuum Coating Machine Product and Services

2.8.4 AIXTRON Thermal Evaporation Vacuum Coating Machine Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.8.5 AIXTRON Recent Developments/Updates

2.9 Evatec

2.9.1 Evatec Details

2.9.2 Evatec Major Business

2.9.3 Evatec Thermal Evaporation Vacuum Coating Machine Product and Services

2.9.4 Evatec Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.9.5 Evatec Recent Developments/Updates

2.10 Jusung Engineering

2.10.1 Jusung Engineering Details

2.10.2 Jusung Engineering Major Business

2.10.3 Jusung Engineering Thermal Evaporation Vacuum Coating Machine Product and Services

2.10.4 Jusung Engineering Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.10.5 Jusung Engineering Recent Developments/Updates

2.11 Showa Shinku

2.11.1 Showa Shinku Details

2.11.2 Showa Shinku Major Business

2.11.3 Showa Shinku Thermal Evaporation Vacuum Coating Machine Product and Services

2.11.4 Showa Shinku Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.11.5 Showa Shinku Recent Developments/Updates

2.12 Hanil Vacuum

2.12.1 Hanil Vacuum Details

2.12.2 Hanil Vacuum Major Business

2.12.3 Hanil Vacuum Thermal Evaporation Vacuum Coating Machine Product and Services

2.12.4 Hanil Vacuum Thermal Evaporation Vacuum Coating Machine Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.12.5 Hanil Vacuum Recent Developments/Updates

2.13 CVD Equipment Corporation

2.13.1 CVD Equipment Corporation Details

2.13.2 CVD Equipment Corporation Major Business



2.13.3 CVD Equipment Corporation Thermal Evaporation Vacuum Coating Machine Product and Services

2.13.4 CVD Equipment Corporation Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.13.5 CVD Equipment Corporation Recent Developments/Updates

2.14 Denton Vacuum

2.14.1 Denton Vacuum Details

2.14.2 Denton Vacuum Major Business

2.14.3 Denton Vacuum Thermal Evaporation Vacuum Coating Machine Product and Services

2.14.4 Denton Vacuum Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.14.5 Denton Vacuum Recent Developments/Updates

2.15 Zeiss

2.15.1 Zeiss Details

2.15.2 Zeiss Major Business

2.15.3 Zeiss Thermal Evaporation Vacuum Coating Machine Product and Services

2.15.4 Zeiss Thermal Evaporation Vacuum Coating Machine Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

2.15.5 Zeiss Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: THERMAL EVAPORATION VACUUM COATING MACHINE BY MANUFACTURER

3.1 Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Manufacturer (2018-2023)

3.2 Global Thermal Evaporation Vacuum Coating Machine Revenue by Manufacturer (2018-2023)

3.3 Global Thermal Evaporation Vacuum Coating Machine Average Price by Manufacturer (2018-2023)

3.4 Market Share Analysis (2022)

3.4.1 Producer Shipments of Thermal Evaporation Vacuum Coating Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2022

3.4.2 Top 3 Thermal Evaporation Vacuum Coating Machine Manufacturer Market Share in 2022

3.4.2 Top 6 Thermal Evaporation Vacuum Coating Machine Manufacturer Market Share in 2022

3.5 Thermal Evaporation Vacuum Coating Machine Market: Overall Company Footprint Analysis



3.5.1 Thermal Evaporation Vacuum Coating Machine Market: Region Footprint

3.5.2 Thermal Evaporation Vacuum Coating Machine Market: Company Product Type Footprint

3.5.3 Thermal Evaporation Vacuum Coating Machine Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Thermal Evaporation Vacuum Coating Machine Market Size by Region

4.1.1 Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Region (2018-2029)

4.1.2 Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2018-2029)

4.1.3 Global Thermal Evaporation Vacuum Coating Machine Average Price by Region (2018-2029)

4.2 North America Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029)

4.3 Europe Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029)

4.4 Asia-Pacific Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029)

4.5 South America Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029)

4.6 Middle East and Africa Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

5.1 Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2029)

5.2 Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Type (2018-2029)

5.3 Global Thermal Evaporation Vacuum Coating Machine Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION



6.1 Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2029)

6.2 Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Application (2018-2029)

6.3 Global Thermal Evaporation Vacuum Coating Machine Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2029)

7.2 North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2029)

7.3 North America Thermal Evaporation Vacuum Coating Machine Market Size by Country

7.3.1 North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2018-2029)

7.3.2 North America Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2029)

8.2 Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2029)

8.3 Europe Thermal Evaporation Vacuum Coating Machine Market Size by Country8.3.1 Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity byCountry (2018-2029)

8.3.2 Europe Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2018-2029)

- 8.3.3 Germany Market Size and Forecast (2018-2029)
- 8.3.4 France Market Size and Forecast (2018-2029)
- 8.3.5 United Kingdom Market Size and Forecast (2018-2029)
- 8.3.6 Russia Market Size and Forecast (2018-2029)
- 8.3.7 Italy Market Size and Forecast (2018-2029)



9 ASIA-PACIFIC

9.1 Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Thermal Evaporation Vacuum Coating Machine Market Size by Region9.3.1 Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity byRegion (2018-2029)

9.3.2 Asia-Pacific Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

9.3.5 Korea Market Size and Forecast (2018-2029)

9.3.6 India Market Size and Forecast (2018-2029)

9.3.7 Southeast Asia Market Size and Forecast (2018-2029)

9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

10.1 South America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2029)

10.2 South America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2029)

10.3 South America Thermal Evaporation Vacuum Coating Machine Market Size by Country

10.3.1 South America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2018-2029)

10.3.2 South America Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2029)

11.2 Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales



Quantity by Application (2018-2029)

11.3 Middle East & Africa Thermal Evaporation Vacuum Coating Machine Market Size by Country

11.3.1 Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2018-2029)

11.3.2 Middle East & Africa Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2018-2029)

- 11.3.3 Turkey Market Size and Forecast (2018-2029)
- 11.3.4 Egypt Market Size and Forecast (2018-2029)
- 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
- 11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

- 12.1 Thermal Evaporation Vacuum Coating Machine Market Drivers
- 12.2 Thermal Evaporation Vacuum Coating Machine Market Restraints
- 12.3 Thermal Evaporation Vacuum Coating Machine Trends Analysis
- 12.4 Porters Five Forces Analysis
- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry
- 12.5 Influence of COVID-19 and Russia-Ukraine War
 - 12.5.1 Influence of COVID-19
 - 12.5.2 Influence of Russia-Ukraine War

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Thermal Evaporation Vacuum Coating Machine and Key Manufacturers

13.2 Manufacturing Costs Percentage of Thermal Evaporation Vacuum Coating Machine

13.3 Thermal Evaporation Vacuum Coating Machine Production Process

13.4 Thermal Evaporation Vacuum Coating Machine Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

Global Thermal Evaporation Vacuum Coating Machine Market 2023 by Manufacturers, Regions, Type and Application,...



- 14.1.1 Direct to End-User
- 14.1.2 Distributors
- 14.2 Thermal Evaporation Vacuum Coating Machine Typical Distributors
- 14.3 Thermal Evaporation Vacuum Coating Machine Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer



List Of Tables

LIST OF TABLES

Table 1. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Satisloh Basic Information, Manufacturing Base and Competitors

Table 4. Satisloh Major Business

Table 5. Satisloh Thermal Evaporation Vacuum Coating Machine Product and Services

Table 6. Satisloh Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2018-2023)

Table 7. Satisloh Recent Developments/Updates

Table 8. B?hler Basic Information, Manufacturing Base and Competitors

Table 9. B?hler Major Business

Table 10. B?hler Thermal Evaporation Vacuum Coating Machine Product and Services

Table 11. B?hler Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. B?hler Recent Developments/Updates

Table 13. Kolzer Basic Information, Manufacturing Base and Competitors

Table 14. Kolzer Major Business

Table 15. Kolzer Thermal Evaporation Vacuum Coating Machine Product and Services

Table 16. Kolzer Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2018-2023)

Table 17. Kolzer Recent Developments/Updates

 Table 18. CREAVAC Basic Information, Manufacturing Base and Competitors

Table 19. CREAVAC Major Business

Table 20. CREAVAC Thermal Evaporation Vacuum Coating Machine Product and Services

Table 21. CREAVAC Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. CREAVAC Recent Developments/Updates

Table 23. Semicore Equipment Basic Information, Manufacturing Base and CompetitorsTable 24. Semicore Equipment Major Business

Global Thermal Evaporation Vacuum Coating Machine Market 2023 by Manufacturers, Regions, Type and Application,...



Table 25. Semicore Equipment Thermal Evaporation Vacuum Coating Machine Product and Services

Table 26. Semicore Equipment Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. Semicore Equipment Recent Developments/Updates

Table 28. ULVAC Basic Information, Manufacturing Base and Competitors

Table 29. ULVAC Major Business

Table 30. ULVAC Thermal Evaporation Vacuum Coating Machine Product and Services

Table 31. ULVAC Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. ULVAC Recent Developments/Updates

Table 33. Shincron Basic Information, Manufacturing Base and Competitors

Table 34. Shincron Major Business

Table 35. Shincron Thermal Evaporation Vacuum Coating Machine Product and Services

Table 36. Shincron Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. Shincron Recent Developments/Updates

- Table 38. AIXTRON Basic Information, Manufacturing Base and Competitors
- Table 39. AIXTRON Major Business

Table 40. AIXTRON Thermal Evaporation Vacuum Coating Machine Product and Services

Table 41. AIXTRON Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. AIXTRON Recent Developments/Updates

Table 43. Evatec Basic Information, Manufacturing Base and Competitors

Table 44. Evatec Major Business

 Table 45. Evatec Thermal Evaporation Vacuum Coating Machine Product and Services

Table 46. Evatec Thermal Evaporation Vacuum Coating Machine Sales Quantity (K

Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

 Table 47. Evatec Recent Developments/Updates

Table 48. Jusung Engineering Basic Information, Manufacturing Base and Competitors Table 49. Jusung Engineering Major Business

Table 50. Jusung Engineering Thermal Evaporation Vacuum Coating Machine Product



and Services

Table 51. Jusung Engineering Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 52. Jusung Engineering Recent Developments/Updates

Table 53. Showa Shinku Basic Information, Manufacturing Base and Competitors

Table 54. Showa Shinku Major Business

Table 55. Showa Shinku Thermal Evaporation Vacuum Coating Machine Product and Services

Table 56. Showa Shinku Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. Showa Shinku Recent Developments/Updates

 Table 58. Hanil Vacuum Basic Information, Manufacturing Base and Competitors

Table 59. Hanil Vacuum Major Business

Table 60. Hanil Vacuum Thermal Evaporation Vacuum Coating Machine Product and Services

 Table 61. Hanil Vacuum Thermal Evaporation Vacuum Coating Machine Sales Quantity

(K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Hanil Vacuum Recent Developments/Updates

Table 63. CVD Equipment Corporation Basic Information, Manufacturing Base and Competitors

Table 64. CVD Equipment Corporation Major Business

Table 65. CVD Equipment Corporation Thermal Evaporation Vacuum Coating Machine Product and Services

Table 66. CVD Equipment Corporation Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. CVD Equipment Corporation Recent Developments/Updates

Table 68. Denton Vacuum Basic Information, Manufacturing Base and Competitors

Table 69. Denton Vacuum Major Business

Table 70. Denton Vacuum Thermal Evaporation Vacuum Coating Machine Product and Services

Table 71. Denton Vacuum Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and

Market Share (2018-2023)

Table 72. Denton Vacuum Recent Developments/Updates

 Table 73. Zeiss Basic Information, Manufacturing Base and Competitors



Table 74. Zeiss Major Business

Table 75. Zeiss Thermal Evaporation Vacuum Coating Machine Product and Services

Table 76. Zeiss Thermal Evaporation Vacuum Coating Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Zeiss Recent Developments/Updates

Table 78. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 79. Global Thermal Evaporation Vacuum Coating Machine Revenue by Manufacturer (2018-2023) & (USD Million)

Table 80. Global Thermal Evaporation Vacuum Coating Machine Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 81. Market Position of Manufacturers in Thermal Evaporation Vacuum Coating Machine, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 82. Head Office and Thermal Evaporation Vacuum Coating Machine ProductionSite of Key Manufacturer

Table 83. Thermal Evaporation Vacuum Coating Machine Market: Company Product Type Footprint

Table 84. Thermal Evaporation Vacuum Coating Machine Market: Company ProductApplication Footprint

Table 85. Thermal Evaporation Vacuum Coating Machine New Market Entrants and Barriers to Market Entry

Table 86. Thermal Evaporation Vacuum Coating Machine Mergers, Acquisition,

Agreements, and Collaborations

Table 87. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Region (2018-2023) & (K Units)

Table 88. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Region (2024-2029) & (K Units)

Table 89. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2018-2023) & (USD Million)

Table 90. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2024-2029) & (USD Million)

Table 91. Global Thermal Evaporation Vacuum Coating Machine Average Price by Region (2018-2023) & (US\$/Unit)

Table 92. Global Thermal Evaporation Vacuum Coating Machine Average Price by Region (2024-2029) & (US\$/Unit)

Table 93. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2023) & (K Units)

Table 94. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by



Type (2024-2029) & (K Units) Table 95. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Type (2018-2023) & (USD Million) Table 96. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Type (2024-2029) & (USD Million) Table 97. Global Thermal Evaporation Vacuum Coating Machine Average Price by Type (2018-2023) & (US\$/Unit) Table 98. Global Thermal Evaporation Vacuum Coating Machine Average Price by Type (2024-2029) & (US\$/Unit) Table 99. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2023) & (K Units) Table 100. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2024-2029) & (K Units) Table 101. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Application (2018-2023) & (USD Million) Table 102. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Application (2024-2029) & (USD Million) Table 103. Global Thermal Evaporation Vacuum Coating Machine Average Price by Application (2018-2023) & (US\$/Unit) Table 104. Global Thermal Evaporation Vacuum Coating Machine Average Price by Application (2024-2029) & (US\$/Unit) Table 105. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2023) & (K Units) Table 106. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2024-2029) & (K Units) Table 107. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2023) & (K Units) Table 108. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2024-2029) & (K Units) Table 109. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2018-2023) & (K Units) Table 110. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2024-2029) & (K Units) Table 111. North America Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2018-2023) & (USD Million) Table 112. North America Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2024-2029) & (USD Million) Table 113. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2023) & (K Units)



Table 114. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2024-2029) & (K Units)

Table 115. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2023) & (K Units)

Table 116. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2024-2029) & (K Units)

Table 117. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2018-2023) & (K Units)

Table 118. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2024-2029) & (K Units)

Table 119. Europe Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2018-2023) & (USD Million)

Table 120. Europe Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2024-2029) & (USD Million)

Table 121. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2023) & (K Units)

Table 122. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2024-2029) & (K Units)

Table 123. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2023) & (K Units)

Table 124. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2024-2029) & (K Units)

Table 125. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Region (2018-2023) & (K Units)

Table 126. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity by Region (2024-2029) & (K Units)

Table 127. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2018-2023) & (USD Million)

Table 128. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2024-2029) & (USD Million)

Table 129. South America Thermal Evaporation Vacuum Coating Machine SalesQuantity by Type (2018-2023) & (K Units)

Table 130. South America Thermal Evaporation Vacuum Coating Machine SalesQuantity by Type (2024-2029) & (K Units)

Table 131. South America Thermal Evaporation Vacuum Coating Machine SalesQuantity by Application (2018-2023) & (K Units)

Table 132. South America Thermal Evaporation Vacuum Coating Machine SalesQuantity by Application (2024-2029) & (K Units)

 Table 133. South America Thermal Evaporation Vacuum Coating Machine Sales



Quantity by Country (2018-2023) & (K Units) Table 134. South America Thermal Evaporation Vacuum Coating Machine Sales Quantity by Country (2024-2029) & (K Units) Table 135. South America Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2018-2023) & (USD Million) Table 136. South America Thermal Evaporation Vacuum Coating Machine Consumption Value by Country (2024-2029) & (USD Million) Table 137. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2018-2023) & (K Units) Table 138. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Type (2024-2029) & (K Units) Table 139. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2018-2023) & (K Units) Table 140. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Application (2024-2029) & (K Units) Table 141. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Region (2018-2023) & (K Units) Table 142. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity by Region (2024-2029) & (K Units) Table 143. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2018-2023) & (USD Million) Table 144. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Consumption Value by Region (2024-2029) & (USD Million) Table 145. Thermal Evaporation Vacuum Coating Machine Raw Material Table 146. Key Manufacturers of Thermal Evaporation Vacuum Coating Machine Raw Materials Table 147. Thermal Evaporation Vacuum Coating Machine Typical Distributors Table 148. Thermal Evaporation Vacuum Coating Machine Typical Customers



List Of Figures

LIST OF FIGURES

Figure 1. Thermal Evaporation Vacuum Coating Machine Picture Figure 2. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Type, (USD Million), 2018 & 2022 & 2029 Figure 3. Global Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Type in 2022 Figure 4. Physical Vapor Deposition (PVD) Examples Figure 5. Chemical Vapor Deposition (CVD) Examples Figure 6. Global Thermal Evaporation Vacuum Coating Machine Consumption Value by Application, (USD Million), 2018 & 2022 & 2029 Figure 7. Global Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Application in 2022 Figure 8. Optics Examples Figure 9. Consumer Packaging Examples Figure 10. Global Thermal Evaporation Vacuum Coating Machine Consumption Value, (USD Million): 2018 & 2022 & 2029 Figure 11. Global Thermal Evaporation Vacuum Coating Machine Consumption Value and Forecast (2018-2029) & (USD Million) Figure 12. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity (2018-2029) & (K Units) Figure 13. Global Thermal Evaporation Vacuum Coating Machine Average Price (2018-2029) & (US\$/Unit) Figure 14. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Manufacturer in 2022 Figure 15. Global Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Manufacturer in 2022 Figure 16. Producer Shipments of Thermal Evaporation Vacuum Coating Machine by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021 Figure 17. Top 3 Thermal Evaporation Vacuum Coating Machine Manufacturer (Consumption Value) Market Share in 2022 Figure 18. Top 6 Thermal Evaporation Vacuum Coating Machine Manufacturer (Consumption Value) Market Share in 2022 Figure 19. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Region (2018-2029) Figure 20. Global Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Region (2018-2029)



Figure 21. North America Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029) & (USD Million)

Figure 22. Europe Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029) & (USD Million)

Figure 23. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029) & (USD Million)

Figure 24. South America Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029) & (USD Million)

Figure 25. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Consumption Value (2018-2029) & (USD Million)

Figure 26. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Type (2018-2029)

Figure 27. Global Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Type (2018-2029)

Figure 28. Global Thermal Evaporation Vacuum Coating Machine Average Price by Type (2018-2029) & (US\$/Unit)

Figure 29. Global Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Application (2018-2029)

Figure 30. Global Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Application (2018-2029)

Figure 31. Global Thermal Evaporation Vacuum Coating Machine Average Price by Application (2018-2029) & (US\$/Unit)

Figure 32. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Type (2018-2029)

Figure 33. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Application (2018-2029)

Figure 34. North America Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Country (2018-2029)

Figure 35. North America Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Country (2018-2029)

Figure 36. United States Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 37. Canada Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 38. Mexico Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 39. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Type (2018-2029)

Figure 40. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity



Market Share by Application (2018-2029) Figure 41. Europe Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Country (2018-2029) Figure 42. Europe Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Country (2018-2029) Figure 43. Germany Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 44. France Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 45. United Kingdom Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 46. Russia Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 47. Italy Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 48. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Type (2018-2029) Figure 49. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Application (2018-2029) Figure 50. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Region (2018-2029) Figure 51. Asia-Pacific Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Region (2018-2029) Figure 52. China Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 53. Japan Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 54. Korea Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 55. India Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 56. Southeast Asia Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 57. Australia Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 58. South America Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Type (2018-2029) Figure 59. South America Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Application (2018-2029)



Figure 60. South America Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Country (2018-2029) Figure 61. South America Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Country (2018-2029) Figure 62. Brazil Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 63. Argentina Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 64. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Type (2018-2029) Figure 65. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Application (2018-2029) Figure 66. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Sales Quantity Market Share by Region (2018-2029) Figure 67. Middle East & Africa Thermal Evaporation Vacuum Coating Machine Consumption Value Market Share by Region (2018-2029) Figure 68. Turkey Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 69. Egypt Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 70. Saudi Arabia Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 71. South Africa Thermal Evaporation Vacuum Coating Machine Consumption Value and Growth Rate (2018-2029) & (USD Million) Figure 72. Thermal Evaporation Vacuum Coating Machine Market Drivers Figure 73. Thermal Evaporation Vacuum Coating Machine Market Restraints Figure 74. Thermal Evaporation Vacuum Coating Machine Market Trends Figure 75. Porters Five Forces Analysis Figure 76. Manufacturing Cost Structure Analysis of Thermal Evaporation Vacuum Coating Machine in 2022 Figure 77. Manufacturing Process Analysis of Thermal Evaporation Vacuum Coating Machine Figure 78. Thermal Evaporation Vacuum Coating Machine Industrial Chain Figure 79. Sales Quantity Channel: Direct to End-User vs Distributors Figure 80. Direct Channel Pros & Cons Figure 81. Indirect Channel Pros & Cons Figure 82. Methodology

Figure 83. Research Process and Data Source



I would like to order

 Product name: Global Thermal Evaporation Vacuum Coating Machine Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029
 Product link: <u>https://marketpublishers.com/r/G82EC856D982EN.html</u>
 Price: US\$ 3,480.00 (Single User License / Electronic Delivery)
 If you want to order Corporate License or Hard Copy, please, contact our Customer Service: <u>info@marketpublishers.com</u>

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/G82EC856D982EN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



Global Thermal Evaporation Vacuum Coating Machine Market 2023 by Manufacturers, Regions, Type and Application,...