

# Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market size is expected to reach \$ 471 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Flat Panel Display (FPD) Etching Equipment Surface Treatment Services refer to industrial-grade surface treatment, cleaning, and regeneration services provided for key components in the etching process equipment used in display panel manufacturing. These services aim to ensure component performance, extend lifespan, and improve panel production yield. Display panel cleaning typically tolerates particle size exceeding 0.5 $\mu$ m and has low sensitivity to metal ion contamination. The oxide film thickness in the anodizing process of display panels is typically 5-50 $\mu$ m (e.g., in the thin-film deposition stage). The porosity requirements for coating technologies such as plasma lamination of display panels are typically 1-3%. In 2025, the global gross margin for Flat Panel Display (FPD) Etching Equipment Surface Treatment Services was approximately 24.7%, with downstream customers including BOE, TCL CSOT, Tianma Microelectronics, and AU Optronics.

This report studies the global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flat Panel Display (FPD) Etching Equipment Surface Treatment Services, 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 Flat Panel Display (FPD) Etching Equipment Surface Treatment

Services that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services total market, 2021-2032, (USD Million)

Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Flat Panel Display (FPD) Etching Equipment Surface Treatment Services total market, key domestic companies, and share, (USD Million)

Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services revenue by player, revenue and market share 2021-2026, (USD Million)

Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services total market by Type, CAGR, 2021-2032, (USD Million)

Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kurita, Enpro Industries (LeanTeq & NxEdge), TOCALO Co., Ltd., Mitsubishi Chemical?Cleanpart?, Hansol IONES, WONIK QnC, DFtech, Frontken Corporation, Persys Group, MSR-FSR, 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 Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Flat Panel Display (FPD) Etching Equipment Surface Treatment Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services Market, Segmentation by Type:

Precision Cleaning

Anodizing

Coating & Thermal Spray

### Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services Market, Segmentation by Component:

Metallic Material Components

## Non-metallic Material Components (Advanced Ceramics)

Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services Market, Segmentation by Suppliers:

Equipment Manufacturer

Third-party Surface Treatment Services

Global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services Market, Segmentation by Application:

LCD Manufacturing Equipment

OLED Manufacturing Equipment

Companies Profiled:

Kurita

Enpro Industries (LeanTeq & NxEdge)

TOCALO Co., Ltd.

Mitsubishi Chemical?Cleanpart?

Hansol IONES

WONIK QnC

DFtech

Frontken Corporation

Persys Group

MSR-FSR

Value Engineering Co., Ltd

Neutron Technology

Foamtec International

ULVAC Technologies

Nikkoshi

Ferrotec Global(Ferrotec (An Hui) Technology Development Co., Ltd.)

Cinos(CINOS Xi'an Clean Technology Co., Ltd.)

KoMiCo

Hefei Weirui Technology Co., Ltd.

GEMtek Corporation

Chongqing Genori Industrial Co., Ltd.

Shih-Her Technologies Inc.

Suzhou Kematek, Inc.

Kertz Co., Ltd.

Hung Jie Technology Corporation

HCUT

Shanghai Companion Precision Ceramics Co., Ltd.

Beijing Grand Ray Tech Co., Ltd.

HTC & Solar Tech Service Ltd.

PNC Process Systems Co.,Ltd

#### Key Questions Answered

1. How big is the global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market?
2. What is the demand of the global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market?
3. What is the year over year growth of the global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market?
4. What is the total value of the global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market?
5. Who are the Major Players in the global Flat Panel Display (FPD) Etching Equipment Surface Treatment Services market?
6. What are the growth factors driving the market demand?

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