

# Global Thermal Desorption Instrument Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/TAD67C7B1DB0EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: TAD67C7B1DB0EN

## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Thermal Desorption Instrument market size will reach 28.87 Million USD in 2025 and is projected to reach 32.87 Million USD by 2032, with a CAGR of 1.87% (2025-2032). Notably, the China Thermal Desorption Instrument market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A Thermal Desorption Instrument is a scientific device used for the analysis of volatile and semi-volatile organic compounds (VOCs and SVOCs) in various samples. The instrument operates on the principle of thermal desorption, a process where samples are heated to release and vaporize the target compounds for subsequent analysis. In a typical setup, a sample is introduced into a thermal desorption tube or trap, and the instrument gradually heats the sample to cause desorption of the volatile compounds. The released compounds are then transferred to a chromatographic system for separation and detection. Thermal desorption instruments are commonly employed in environmental monitoring, industrial hygiene, and analytical chemistry applications, providing a sensitive and efficient means to analyze complex mixtures of organic compounds in solid, liquid, or gaseous samples.

The major global manufacturers of Thermal Desorption Instrument include Markes International, GERSTEL GmbH, Dani Instruments, AIRSENSE Analytics, PerkinElmer, CDS Analytical, Shimadzu, Beijing BCHP, etc. The global players competition

landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Thermal Desorption Instrument. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Thermal Desorption Instrument market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Thermal Desorption Instrument market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Thermal Desorption Instrument industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Thermal Desorption Instrument Include:

Markes International

GERSTEL GmbH

Dani Instruments

AIRSENSE Analytics

PerkinElmer

CDS Analytical

Shimadzu

Beijing BCHP

Thermal Desorption Instrument Product Segment Include:

Manual Control

Electronic Control

Others

Thermal Desorption Instrument Product Application Include:

Environmental

Food/Flavor/Drink/Biological

Material Emissions

Others

## **Chapter Scope**

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