

# **High Throughput Screening (HTS) Market By Product & Services (Instrument, Consumables, Software & Services) , By Technology (Cell based assays, Lab-on-chip technology, Others) By Application (Drug discovery, Biochemical screening, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

### **High Throughput Screening (HTS) Market**

The high throughput screening (HTS) market was valued at \$24.6 billion in 2023 and is projected to reach \$62.8 billion by 2033, growing at a CAGR of 9.8% from 2024 to 2033.

High throughput screening (HTS) involves rapid analysis of millions of biological samples via chemical, genetic, or pharmacological tests. Technologies involved in HTS include data processing, robotics, detectors, and liquid handling devices. The screening process is majorly used in drug discovery to escape the lengthy preclinical process.

Rise in the prevalence of chronic diseases has amplified the drug discovery processes in research laboratories, driving the growth of the high throughput screening (HTS) market. In addition, upsurge in investments and fundings from government propels the market development. A major trend gaining prominence in the high throughput screening (HTS) market is the assimilation of microfluidics systems for sample screening. This assimilation accelerates the rate of screening by reducing the time and reagents required for the process. Moreover, through microfluidics, scientists are able to mimic the interconnected essence of a living body, thereby enhancing the efficacy of the procedure.

However, high costs associated with accomplishment of the process such as procurement of expensive setup, reagents, and competent laboratory settings hamper the growth of the high throughput screening (HTS) market. Furthermore, constant requirement for upgrading the setup as per the latest technological breakthroughs restrains the market development substantially. On the contrary, surge in demand for precision medicine is expected to open new avenues for the high throughput screening (HTS) market. According to an article by the American Pharmaceutical Review—a leading review journal of the pharmaceutical industry—the global expenditure on precision medicine treatment was approximately \$32 billion in 2022 and is expected to cross \$124 billion by 2027. This rising expenditure is projected to present lucrative opportunities for the market.

## Segment Review

The high throughput screening (HTS) market is segmented into product & services, technology, application, end user, and region. On the basis of product & services, the market is divided into instrument, consumables, and software & services. Depending on technology, it is classified into cell based assays, lab-on-chip technology, and others. As per application, it is categorized into drug discovery, biochemical screening, and others. According to end user, it is segmented into pharmaceutical & biotechnological companies, academic & research institutes, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of product & services, the consumables segment dominated the market in 2023.

Depending on technology, the cell based assays segment held a high share of the market in 2023.

As per application, the drug discovery segment is anticipated to be the highest shareholder throughout the forecast period.

According to end user, the pharmaceutical & biotechnological companies segment accounted for a high market share in 2023.

Region wise, North America was the highest revenue generator in 2023.

## Competition Analysis

The leading players operating in the global high throughput screening (HTS) market include Aurora Biomed Inc, Axxam S.p.A, Danaher Corporation, PerkinElmer, Inc., Bio-Rad Laboratories Inc, Agilent Technologies, Inc., Thermo Fisher Scientific Inc., Biotek Instruments Inc., Merck Group KGaA, and Corning Incorporated. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Historic market data

SWOT Analysis

Key Market Segments

By Product Services

Instrument

Consumables

Software Services

By Technology

Cell based assays

Lab-on-chip technology

Others

By Application

Drug discovery

Biochemical screening

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Aurora Biomed Inc

Axxam S.p.A

Danaher Corporation

PerkinElmer, Inc.

Bio-Rad Laboratories Inc

Agilent Technologies, Inc.

Thermo Fisher Scientific Inc.

Biotek Instruments Inc.

Merck Group KGaA

Corning Incorporated

## Contents

### **CHAPTER 1: INTRODUCTION**

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
  - 1.4.1. Primary Research
  - 1.4.2. Secondary Research
  - 1.4.3. Analyst Tools and Models

### **CHAPTER 2: EXECUTIVE SUMMARY**

- 2.1. CXO Perspective

### **CHAPTER 3: MARKET LANDSCAPE**

- 3.1. Market Definition and Scope
- 3.2. Key Findings
  - 3.2.1. Top Investment Pockets
  - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
  - 3.3.1. Bargaining Power of Suppliers
  - 3.3.2. Threat of New Entrants
  - 3.3.3. Threat of Substitutes
  - 3.3.4. Competitive Rivalry
  - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
  - 3.4.1. Drivers
  - 3.4.2. Restraints
  - 3.4.3. Opportunities

### **CHAPTER 4: HIGH THROUGHPUT SCREENING (HTS) MARKET, BY PRODUCT SERVICES**

- 4.1. Market Overview
  - 4.1.1 Market Size and Forecast, By Product Services
- 4.2. Instrument

- 4.2.1. Key Market Trends, Growth Factors and Opportunities
- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Consumables
  - 4.3.1. Key Market Trends, Growth Factors and Opportunities
  - 4.3.2. Market Size and Forecast, By Region
  - 4.3.3. Market Share Analysis, By Country
- 4.4. Software Services
  - 4.4.1. Key Market Trends, Growth Factors and Opportunities
  - 4.4.2. Market Size and Forecast, By Region
  - 4.4.3. Market Share Analysis, By Country

## **CHAPTER 5: HIGH THROUGHPUT SCREENING (HTS) MARKET, BY TECHNOLOGY**

- 5.1. Market Overview
  - 5.1.1 Market Size and Forecast, By Technology
- 5.2. Cell Based Assays
  - 5.2.1. Key Market Trends, Growth Factors and Opportunities
  - 5.2.2. Market Size and Forecast, By Region
  - 5.2.3. Market Share Analysis, By Country
- 5.3. Lab-on-chip Technology
  - 5.3.1. Key Market Trends, Growth Factors and Opportunities
  - 5.3.2. Market Size and Forecast, By Region
  - 5.3.3. Market Share Analysis, By Country
- 5.4. Others
  - 5.4.1. Key Market Trends, Growth Factors and Opportunities
  - 5.4.2. Market Size and Forecast, By Region
  - 5.4.3. Market Share Analysis, By Country

## **CHAPTER 6: HIGH THROUGHPUT SCREENING (HTS) MARKET, BY APPLICATION**

- 6.1. Market Overview
  - 6.1.1 Market Size and Forecast, By Application
- 6.2. Drug Discovery
  - 6.2.1. Key Market Trends, Growth Factors and Opportunities
  - 6.2.2. Market Size and Forecast, By Region
  - 6.2.3. Market Share Analysis, By Country
- 6.3. Biochemical Screening



- 6.3.1. Key Market Trends, Growth Factors and Opportunities
- 6.3.2. Market Size and Forecast, By Region
- 6.3.3. Market Share Analysis, By Country
- 6.4. Others
  - 6.4.1. Key Market Trends, Growth Factors and Opportunities
  - 6.4.2. Market Size and Forecast, By Region
  - 6.4.3. Market Share Analysis, By Country

## **CHAPTER 7: HIGH THROUGHPUT SCREENING (HTS) MARKET, BY REGION**

- 7.1. Market Overview
  - 7.1.1 Market Size and Forecast, By Region
- 7.2. North America
  - 7.2.1. Key Market Trends and Opportunities
  - 7.2.2. Market Size and Forecast, By Product Services
  - 7.2.3. Market Size and Forecast, By Technology
  - 7.2.4. Market Size and Forecast, By Application
  - 7.2.5. Market Size and Forecast, By Country
  - 7.2.6. U.S. High Throughput Screening (HTS) Market
    - 7.2.6.1. Market Size and Forecast, By Product Services
    - 7.2.6.2. Market Size and Forecast, By Technology
    - 7.2.6.3. Market Size and Forecast, By Application
  - 7.2.7. Canada High Throughput Screening (HTS) Market
    - 7.2.7.1. Market Size and Forecast, By Product Services
    - 7.2.7.2. Market Size and Forecast, By Technology
    - 7.2.7.3. Market Size and Forecast, By Application
  - 7.2.8. Mexico High Throughput Screening (HTS) Market
    - 7.2.8.1. Market Size and Forecast, By Product Services
    - 7.2.8.2. Market Size and Forecast, By Technology
    - 7.2.8.3. Market Size and Forecast, By Application
- 7.3. Europe
  - 7.3.1. Key Market Trends and Opportunities
  - 7.3.2. Market Size and Forecast, By Product Services
  - 7.3.3. Market Size and Forecast, By Technology
  - 7.3.4. Market Size and Forecast, By Application
  - 7.3.5. Market Size and Forecast, By Country
  - 7.3.6. France High Throughput Screening (HTS) Market
    - 7.3.6.1. Market Size and Forecast, By Product Services
    - 7.3.6.2. Market Size and Forecast, By Technology

- 7.3.6.3. Market Size and Forecast, By Application
- 7.3.7. Germany High Throughput Screening (HTS) Market
  - 7.3.7.1. Market Size and Forecast, By Product Services
  - 7.3.7.2. Market Size and Forecast, By Technology
  - 7.3.7.3. Market Size and Forecast, By Application
- 7.3.8. Italy High Throughput Screening (HTS) Market
  - 7.3.8.1. Market Size and Forecast, By Product Services
  - 7.3.8.2. Market Size and Forecast, By Technology
  - 7.3.8.3. Market Size and Forecast, By Application
- 7.3.9. Spain High Throughput Screening (HTS) Market
  - 7.3.9.1. Market Size and Forecast, By Product Services
  - 7.3.9.2. Market Size and Forecast, By Technology
  - 7.3.9.3. Market Size and Forecast, By Application
- 7.3.10. UK High Throughput Screening (HTS) Market
  - 7.3.10.1. Market Size and Forecast, By Product Services
  - 7.3.10.2. Market Size and Forecast, By Technology
  - 7.3.10.3. Market Size and Forecast, By Application
- 7.3.11. Rest Of Europe High Throughput Screening (HTS) Market
  - 7.3.11.1. Market Size and Forecast, By Product Services
  - 7.3.11.2. Market Size and Forecast, By Technology
  - 7.3.11.3. Market Size and Forecast, By Application
- 7.4. Asia-Pacific
  - 7.4.1. Key Market Trends and Opportunities
  - 7.4.2. Market Size and Forecast, By Product Services
  - 7.4.3. Market Size and Forecast, By Technology
  - 7.4.4. Market Size and Forecast, By Application
  - 7.4.5. Market Size and Forecast, By Country
  - 7.4.6. China High Throughput Screening (HTS) Market
    - 7.4.6.1. Market Size and Forecast, By Product Services
    - 7.4.6.2. Market Size and Forecast, By Technology
    - 7.4.6.3. Market Size and Forecast, By Application
  - 7.4.7. Japan High Throughput Screening (HTS) Market
    - 7.4.7.1. Market Size and Forecast, By Product Services
    - 7.4.7.2. Market Size and Forecast, By Technology
    - 7.4.7.3. Market Size and Forecast, By Application
  - 7.4.8. India High Throughput Screening (HTS) Market
    - 7.4.8.1. Market Size and Forecast, By Product Services
    - 7.4.8.2. Market Size and Forecast, By Technology
    - 7.4.8.3. Market Size and Forecast, By Application

- 7.4.9. South Korea High Throughput Screening (HTS) Market
  - 7.4.9.1. Market Size and Forecast, By Product Services
  - 7.4.9.2. Market Size and Forecast, By Technology
  - 7.4.9.3. Market Size and Forecast, By Application
- 7.4.10. Australia High Throughput Screening (HTS) Market
  - 7.4.10.1. Market Size and Forecast, By Product Services
  - 7.4.10.2. Market Size and Forecast, By Technology
  - 7.4.10.3. Market Size and Forecast, By Application
- 7.4.11. Rest of Asia-Pacific High Throughput Screening (HTS) Market
  - 7.4.11.1. Market Size and Forecast, By Product Services
  - 7.4.11.2. Market Size and Forecast, By Technology
  - 7.4.11.3. Market Size and Forecast, By Application
- 7.5. LAMEA
  - 7.5.1. Key Market Trends and Opportunities
  - 7.5.2. Market Size and Forecast, By Product Services
  - 7.5.3. Market Size and Forecast, By Technology
  - 7.5.4. Market Size and Forecast, By Application
  - 7.5.5. Market Size and Forecast, By Country
  - 7.5.6. Brazil High Throughput Screening (HTS) Market
    - 7.5.6.1. Market Size and Forecast, By Product Services
    - 7.5.6.2. Market Size and Forecast, By Technology
    - 7.5.6.3. Market Size and Forecast, By Application
  - 7.5.7. South Africa High Throughput Screening (HTS) Market
    - 7.5.7.1. Market Size and Forecast, By Product Services
    - 7.5.7.2. Market Size and Forecast, By Technology
    - 7.5.7.3. Market Size and Forecast, By Application
  - 7.5.8. Saudi Arabia High Throughput Screening (HTS) Market
    - 7.5.8.1. Market Size and Forecast, By Product Services
    - 7.5.8.2. Market Size and Forecast, By Technology
    - 7.5.8.3. Market Size and Forecast, By Application
  - 7.5.9. Rest of LAMEA High Throughput Screening (HTS) Market
    - 7.5.9.1. Market Size and Forecast, By Product Services
    - 7.5.9.2. Market Size and Forecast, By Technology
    - 7.5.9.3. Market Size and Forecast, By Application

## **CHAPTER 8: COMPETITIVE LANDSCAPE**

- 8.1. Introduction
- 8.2. Top Winning Strategies

- 8.3. Product Mapping Of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top Player Positioning, 2023

## **CHAPTER 9: COMPANY PROFILES**

- 9.1. Aurora Biomed Inc
  - 9.1.1. Company Overview
  - 9.1.2. Key Executives
  - 9.1.3. Company Snapshot
  - 9.1.4. Operating Business Segments
  - 9.1.5. Product Portfolio
  - 9.1.6. Business Performance
  - 9.1.7. Key Strategic Moves and Developments
- 9.2. Axxam S.p.A
  - 9.2.1. Company Overview
  - 9.2.2. Key Executives
  - 9.2.3. Company Snapshot
  - 9.2.4. Operating Business Segments
  - 9.2.5. Product Portfolio
  - 9.2.6. Business Performance
  - 9.2.7. Key Strategic Moves and Developments
- 9.3. Danaher Corporation
  - 9.3.1. Company Overview
  - 9.3.2. Key Executives
  - 9.3.3. Company Snapshot
  - 9.3.4. Operating Business Segments
  - 9.3.5. Product Portfolio
  - 9.3.6. Business Performance
  - 9.3.7. Key Strategic Moves and Developments
- 9.4. PerkinElmer, Inc.
  - 9.4.1. Company Overview
  - 9.4.2. Key Executives
  - 9.4.3. Company Snapshot
  - 9.4.4. Operating Business Segments
  - 9.4.5. Product Portfolio
  - 9.4.6. Business Performance
  - 9.4.7. Key Strategic Moves and Developments

- 9.5. Bio-Rad Laboratories Inc
  - 9.5.1. Company Overview
  - 9.5.2. Key Executives
  - 9.5.3. Company Snapshot
  - 9.5.4. Operating Business Segments
  - 9.5.5. Product Portfolio
  - 9.5.6. Business Performance
  - 9.5.7. Key Strategic Moves and Developments
- 9.6. Agilent Technologies, Inc.
  - 9.6.1. Company Overview
  - 9.6.2. Key Executives
  - 9.6.3. Company Snapshot
  - 9.6.4. Operating Business Segments
  - 9.6.5. Product Portfolio
  - 9.6.6. Business Performance
  - 9.6.7. Key Strategic Moves and Developments
- 9.7. Thermo Fisher Scientific Inc.
  - 9.7.1. Company Overview
  - 9.7.2. Key Executives
  - 9.7.3. Company Snapshot
  - 9.7.4. Operating Business Segments
  - 9.7.5. Product Portfolio
  - 9.7.6. Business Performance
  - 9.7.7. Key Strategic Moves and Developments
- 9.8. Biotek Instruments Inc.
  - 9.8.1. Company Overview
  - 9.8.2. Key Executives
  - 9.8.3. Company Snapshot
  - 9.8.4. Operating Business Segments
  - 9.8.5. Product Portfolio
  - 9.8.6. Business Performance
  - 9.8.7. Key Strategic Moves and Developments
- 9.9. Merck Group KGaA
  - 9.9.1. Company Overview
  - 9.9.2. Key Executives
  - 9.9.3. Company Snapshot
  - 9.9.4. Operating Business Segments
  - 9.9.5. Product Portfolio
  - 9.9.6. Business Performance

- 9.9.7. Key Strategic Moves and Developments
- 9.10. Corning Incorporated
  - 9.10.1. Company Overview
  - 9.10.2. Key Executives
  - 9.10.3. Company Snapshot
  - 9.10.4. Operating Business Segments
  - 9.10.5. Product Portfolio
  - 9.10.6. Business Performance
  - 9.10.7. Key Strategic Moves and Developments

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