

# Stainless Steel Bioreactors Market Status and Trend Analysis 2017-2026 (COVID-19 Version)

<https://marketpublishers.com/r/SCB95CA7B69BEN.html>

Date: January 2020

Pages: 105

Price: US\$ 3,000.00 (Single User License)

ID: SCB95CA7B69BEN

## Abstracts

### SUMMARY

Further key aspects of the report indicate that:

Chapter 1: Research Scope: Product Definition, Type, End-Use & Methodology

Chapter 2: Global Industry Summary

Chapter 3: Market Dynamics

Chapter 4: Global Market Segmentation by region, type and End-Use

Chapter 5: North America Market Segmentation by region, type and End-Use

Chapter 6: Europe Market Segmentation by region, type and End-Use

Chapter 7: Asia-Pacific Market Segmentation by region, type and End-Use

Chapter 8: South America Market Segmentation by region, type and End-Use

Chapter 9: Middle East and Africa Market Segmentation by region, type and End-Use.

Chapter 10: Market Competition by Companies

Chapter 11: Market forecast and environment forecast.

Chapter 12: Industry Summary.

The global Stainless Steel Bioreactors market has the potential to grow with xx million USD with growing CAGR in the forecast period from 2021f to 2026f. Factors driving the market for @@@@ are the significant development of demand and improvement of COVID-19 and geo-economics.

Based on the type of product, the global Stainless Steel Bioreactors market segmented into

0-50L

50-100L

100-250L

Above 250L

Based on the end-use, the global Stainless Steel Bioreactors market classified into

Biopharmaceutical Companies

CROs

Academic and Research Institutes

Others

Based on geography, the global Stainless Steel Bioreactors market segmented into

North America [U.S., Canada, Mexico]

Europe [Germany, UK, France, Italy, Rest of Europe]

Asia-Pacific [China, India, Japan, South Korea, Southeast Asia, Australia, Rest of Asia Pacific]

South America [Brazil, Argentina, Rest of Latin America]

Middle East & Africa [GCC, North Africa, South Africa, Rest of Middle East and Africa]

And the major players included in the report are

Thermo Fisher

Merck KGaA

Danaher (Pall)

GE Healthcare

Sartorius AG (BBI)

ZETA

Eppendorf AG

Pierre Guerin (DCI-Biolafitte)

Praj Hipurity Systems

Bioengineering AG

Infors HT

Applikon Biotechnology

Solaris

## Contents

### 1 RESEARCH SCOPE

- 1.1 Research Product Definition
- 1.2 Research Segmentation
  - 1.2.1 Product Type
  - 1.2.2 Main product Type of Major Players
- 1.3 Demand Overview
- 1.4 Research Methodology

### 2 GLOBAL STAINLESS STEEL BIOREACTORS INDUSTRY

- 2.1 Summary about Stainless Steel Bioreactors Industry
- 2.2 Stainless Steel Bioreactors Market Trends
  - 2.2.1 Stainless Steel Bioreactors Production & Consumption Trends
  - 2.2.2 Stainless Steel Bioreactors Demand Structure Trends
- 2.3 Stainless Steel Bioreactors Cost & Price

### 3 MARKET DYNAMICS

- 3.1 Manufacturing & Purchasing Behavior in 2020
- 3.2 Market Development under the Impact of COVID-19
  - 3.2.1 Drivers
  - 3.2.2 Restraints
  - 3.2.3 Opportunity
  - 3.2.4 Risk

### 4 GLOBAL MARKET SEGMENTATION

- 4.1 Region Segmentation (2017 to 2021f)
  - 4.1.1 North America (U.S., Canada and Mexico)
  - 4.1.2 Europe (Germany, UK, France, Italy, Rest of Europe)
  - 4.1.3 Asia-Pacific (China, India, Japan, South Korea, Southeast Asia, Australia, Rest of Asia Pacific)
  - 4.1.4 South America (Brazil,, Argentina, Rest of Latin America)
  - 4.1.5 Middle East and Africa (GCC, North Africa, South Africa, Rest of Middle East and Africa)
- 4.2 Product Type Segmentation (2017 to 2021f)

- 4.2.1 0-50L
- 4.2.2 50-100L
- 4.2.3 100-250L
- 4.2.4 Above 250L
- 4.3 Consumption Segmentation (2017 to 2021f)
  - 4.3.1 Biopharmaceutical Companies
  - 4.3.2 CROs
  - 4.3.3 Academic and Research Institutes
  - 4.3.4 Others

## **5 NORTH AMERICA MARKET SEGMENT**

- 5.1 Region Segmentation (2017 to 2021f)
  - 5.1.1 U.S.
  - 5.1.2 Canada
  - 5.1.3 Mexico
- 5.2 Product Type Segmentation (2017 to 2021f)
  - 5.2.1 0-50L
  - 5.2.2 50-100L
  - 5.2.3 100-250L
  - 5.2.4 Above 250L
- 5.3 Consumption Segmentation (2017 to 2021f)
  - 5.3.1 Biopharmaceutical Companies
  - 5.3.2 CROs
  - 5.3.3 Academic and Research Institutes
  - 5.3.4 Others
- 5.4 Impact of COVID-19 in North America

## **6 EUROPE MARKET SEGMENTATION**

- 6.1 Region Segmentation (2017 to 2021f)
  - 6.1.1 Germany
  - 6.1.2 UK
  - 6.1.3 France
  - 6.1.4 Italy
  - 6.1.5 Rest of Europe
- 6.2 Product Type Segmentation (2017 to 2021f)
  - 6.2.1 0-50L
  - 6.2.2 50-100L

6.2.3 100-250L

6.2.4 Above 250L

6.3 Consumption Segmentation (2017 to 2021f)

6.3.1 Biopharmaceutical Companies

6.3.2 CROs

6.3.3 Academic and Research Institutes

6.3.4 Others

6.4 Impact of COVID-19 in Europe

## **7 ASIA-PACIFIC MARKET SEGMENTATION**

7.1 Region Segmentation (2017 to 2021f)

7.1.1 China

7.1.2 India

7.1.3 Japan

7.1.4 South Korea

7.1.5 Southeast Asia

7.1.6 Australia

7.1.7 Rest of Asia Pacific

7.2 Product Type Segmentation (2017 to 2021f)

7.2.1 0-50L

7.2.2 50-100L

7.2.3 100-250L

7.2.4 Above 250L

7.3 Consumption Segmentation (2017 to 2021f)

7.3.1 Biopharmaceutical Companies

7.3.2 CROs

7.3.3 Academic and Research Institutes

7.3.4 Others

7.4 Impact of COVID-19 in Europe

## **8 SOUTH AMERICA MARKET SEGMENTATION**

8.1 Region Segmentation (2017 to 2021f)

8.1.1 Brazil

8.1.2 Argentina

8.1.3 Rest of Latin America

8.2 Product Type Segmentation (2017 to 2021f)

8.2.1 0-50L

8.2.2 50-100L

8.2.3 100-250L

8.2.4 Above 250L

8.3 Consumption Segmentation (2017 to 2021f)

8.3.1 Biopharmaceutical Companies

8.3.2 CROs

8.3.3 Academic and Research Institutes

8.3.4 Others

8.4 Impact of COVID-19 in Europe

## **9 MIDDLE EAST AND AFRICA MARKET SEGMENTATION**

9.1 Region Segmentation (2017 to 2021f)

9.1.1 GCC

9.1.2 North Africa

9.1.3 South Africa

9.1.4 Rest of Middle East and Africa

9.2 Product Type Segmentation (2017 to 2021f)

9.2.1 0-50L

9.2.2 50-100L

9.2.3 100-250L

9.2.4 Above 250L

9.3 Consumption Segmentation (2017 to 2021f)

9.3.1 Biopharmaceutical Companies

9.3.2 CROs

9.3.3 Academic and Research Institutes

9.3.4 Others

9.4 Impact of COVID-19 in Europe

## **10 COMPETITION OF MAJOR PLAYERS**

10.1 Brief Introduction of Major Players

10.1.1 Thermo Fisher

10.1.2 Merck KGaA

10.1.3 Danaher (Pall)

10.1.4 GE Healthcare

10.1.5 Sartorius AG (BBI)

10.1.6 ZETA

10.1.7 Eppendorf AG

- 10.1.8 Pierre Guerin (DCI-Biolafitte)
- 10.1.9 Praj Hipurity Systems
- 10.1.10 Bioengineering AG
- 10.1.11 Infors HT
- 10.1.12 Applikon Biotechnology
- 10.1.13 Solaris
- 10.2 Stainless Steel Bioreactors Sales Date of Major Players (2017-2020e)
  - 10.2.1 Thermo Fisher
  - 10.2.2 Merck KGaA
  - 10.2.3 Danaher (Pall)
  - 10.2.4 GE Healthcare
  - 10.2.5 Sartorius AG (BBI)
  - 10.2.6 ZETA
  - 10.2.7 Eppendorf AG
  - 10.2.8 Pierre Guerin (DCI-Biolafitte)
  - 10.2.9 Praj Hipurity Systems
  - 10.2.10 Bioengineering AG
  - 10.2.11 Infors HT
  - 10.2.12 Applikon Biotechnology
  - 10.2.13 Solaris
- 10.3 Market Distribution of Major Players
- 10.4 Global Competition Segmentation

## **11 MARKET FORECAST**

- 11.1 Forecast by Region
- 11.2 Forecast by Demand
- 11.3 Environment Forecast
  - 11.3.1 Impact of COVID-19
  - 11.3.2 Geopolitics Overview
  - 11.3.3 Economic Overview of Major Countries

## **12 REPORT SUMMARY STATEMENT**



## List Of Tables

### LIST OF TABLES

Table Stainless Steel Bioreactors Product Type Overview
Table Stainless Steel Bioreactors Product Type Market Share List
Table Stainless Steel Bioreactors Product Type of Major Players
Table Brief Introduction of Thermo Fisher
Table Brief Introduction of Merck KGaA
Table Brief Introduction of Danaher (Pall)
Table Brief Introduction of GE Healthcare
Table Brief Introduction of Sartorius AG (BBI)
Table Brief Introduction of ZETA
Table Brief Introduction of Eppendorf AG
Table Brief Introduction of Pierre Guerin (DCI-Biolafitte)
Table Brief Introduction of Praj Hipurity Systems
Table Brief Introduction of Bioengineering AG
Table Brief Introduction of Infors HT
Table Brief Introduction of Applikon Biotechnology
Table Brief Introduction of Solaris
Table Products & Services of Thermo Fisher
Table Products & Services of Merck KGaA
Table Products & Services of Danaher (Pall)
Table Products & Services of GE Healthcare
Table Products & Services of Sartorius AG (BBI)
Table Products & Services of ZETA
Table Products & Services of Eppendorf AG
Table Products & Services of Pierre Guerin (DCI-Biolafitte)
Table Products & Services of Praj Hipurity Systems
Table Products & Services of Bioengineering AG
Table Products & Services of Infors HT
Table Products & Services of Applikon Biotechnology
Table Products & Services of Solaris
Table Market Distribution of Major Players
Table Global Major Players Sales Revenue (Million USD) 2017-2020e
Table Global Major Players Sales Revenue (Million USD) Share 2017-2020e
Table Global Stainless Steel Bioreactors Market Forecast (Million USD) by Region 2021f-2026f
Table Global Stainless Steel Bioreactors Market Forecast (Million USD) Share by Region 2021f-2026f

Table Global Stainless Steel Bioreactors Market Forecast (Million USD) by Demand  
2021f-2026f

Table Global Stainless Steel Bioreactors Market Forecast (Million USD) Share by  
Demand 2021f-2026f

## List Of Figures

### LIST OF FIGURES

Figure Global Stainless Steel Bioreactors Market Size under the Impact of COVID-19, 2017-2021f (USD Million)

Figure Global Stainless Steel Bioreactors Market by Region under the Impact of COVID-19, 2017-2021f (USD Million)

Figure Global Stainless Steel Bioreactors Market by Product Type under the Impact of COVID-19, 2017-2021f (USD Million)

Figure Global Stainless Steel Bioreactors Market by Demand under the Impact of COVID-19, 2017-2021f (USD Million)

Figure Global Stainless Steel Bioreactors Production by Region under the Impact of COVID-19, 2021-2026 (USD Million)

Figure Global Stainless Steel Bioreactors Consumption by Region under the Impact of COVID-19, 2021-2026 (USD Million)

Figure Global Stainless Steel Bioreactors Consumption by Type under the Impact of COVID-19, 2021-2026 (USD Million)

Figure North America Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Europe Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Asia-Pacific Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure South America Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Middle East and Africa Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 0-50L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 50-100L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 100-250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Above 250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Biopharmaceutical Companies Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure CROs Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Academic and Research Institutes Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Others Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure U.S. Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Canada Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Mexico Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 0-50L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 50-100L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 100-250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Above 250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Biopharmaceutical Companies Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure CROs Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Academic and Research Institutes Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Others Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Germany Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure UK Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure France Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Italy Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Rest of Europe Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 0-50L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 50-100L Segmentation Market Size (USD Million) 2017-2021f and Year-over-

year (YOY) Growth (%) 2018-2021f

Figure 100-250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Above 250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Biopharmaceutical Companies Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure CROs Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Academic and Research Institutes Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Others Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure China Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure India Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Japan Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure South Korea Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Southeast Asia Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Australia Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Rest of Asia Pacific Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 0-50L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 50-100L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 100-250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Above 250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Biopharmaceutical Companies Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure CROs Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Academic and Research Institutes Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Others Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Brazil Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Argentina Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Rest of Latin America Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 0-50L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 50-100L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 100-250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Above 250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Biopharmaceutical Companies Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure CROs Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Academic and Research Institutes Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Others Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure GCC Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure North Africa Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure South Africa Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Rest of Middle East and Africa Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 0-50L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 50-100L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure 100-250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-

year (YOY) Growth (%) 2018-2021f

Figure Above 250L Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Biopharmaceutical Companies Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure CROs Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Academic and Research Institutes Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Others Segmentation Market Size (USD Million) 2017-2021f and Year-over-year (YOY) Growth (%) 2018-2021f

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Thermo Fisher 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Merck KGaA 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Danaher (Pall) 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of GE Healthcare 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Sartorius AG (BBI) 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of ZETA 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Eppendorf AG 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Pierre Guerin (DCI-Biolafitte) 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Praj Hipurity Systems 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Bioengineering AG 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Infors HT 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Applikon Biotechnology 2017-2020e

Figure Stainless Steel Bioreactors Sales Revenue (Million USD) of Solaris 2017-2020e

## I would like to order

Product name: Stainless Steel Bioreactors Market Status and Trend Analysis 2017-2026 (COVID-19 Version)

Product link: <https://marketpublishers.com/r/SCB95CA7B69BEN.html>

Price: US\$ 3,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SCB95CA7B69BEN.html>

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**

Customer signature \_\_\_\_\_

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

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



