

# Platelet Aggregation Devices Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/P8E5E68E843DEN.html>

Date: November 2023

Pages: 142

Price: US\$ 2,499.00 (Single User License)

ID: P8E5E68E843DEN

## Abstracts

The global platelet aggregation devices market size reached US\$ 525.0 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 744.7 Million by 2028, exhibiting a growth rate (CAGR) of 6.00% during 2022-2028.

Platelet aggregation devices comprise adenosine-diphosphate (ADP), thrombin, and ristocetin-induced platelet aggregation (RIPA). These devices are used to diagnose patients with inherited and acquired platelet function disorders, such as excessive bleeding, arterial thrombotic, stroke, and myocardial infarction. They assist in transfusing medicines, pre-surgery tests, and clinical settings to monitor the response of antiplatelet therapies and assess perioperative bleeding risk. At present, due to the launch of new potential biomarkers and technologies, platelet aggregation devices are finding extensive application in personalizing antiplatelet drugs and monitoring the efficacy of various types of pro-hemostatic therapies around the world.

### Platelet Aggregation Devices Market Trends:

The rising instances of platelet aggregation among patients diagnosed with coronavirus disease (COVID-19) are strengthening the growth of the market. Moreover, due to the growing prevalence of colon cancer, cardiovascular diseases, Kawasaki condition, acute coronary syndrome (ACS), acute ischemic stroke, and acute rheumatic disorders across the globe, there is an increase in the risk of bleeding. This acts as another key factor impelling the growth of the platelet aggregation devices market for clinical management of platelet function disorders. In addition, a significant rise in the aging population suffering from chronic diseases is contributing to the market growth. Apart from this, leading manufacturers are launching novel products to expand their product portfolio and retain a competitive edge in the market. They are also focusing on

developing new and simpler point-of-care (POC) diagnostic devices. These devices rely on the latest methodologies for helping in the rapid evaluation of inherited and acquired bleeding disorders and antiplatelet therapies. This, coupled with the increasing need for POC diagnostic devices to fulfill the healthcare demand of the large population, is projected to drive the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global platelet aggregation devices market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, type, application and end user.

#### Breakup by Product:

- Systems
- Reagents
- Consumables and Accessories

#### Breakup by Type:

- Four Channel
- Dual Channel
- Eight Channel

#### Breakup by Application:

- Clinical Applications
- Research Applications
- Cardiovascular Applications
- Orthopedic Applications
- Others

#### Breakup by End User:

- Hospitals
- Diagnostic Laboratories
- Research and Academic Institutes
- Others

## Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

## Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AggreDyne Inc., Chrono-Log Corporation, F. Hoffmann-La Roche AG, Grifols S.A., Hart Biologicals Ltd., Helena Laboratories Corporation, LAbor BioMedical Technologies GmbH, Matis Medical Inc., Sentinel Ch. S.P.A., Siemens AG, Sienco Inc., Sysmex Corporation and WerfenLife SA.

## Key Questions Answered in This Report

1. What was the size of the global platelet aggregation devices market in 2022?
2. What is the expected growth rate of the global platelet aggregation devices market during 2023-2028?
3. What has been the impact of COVID-19 on the global platelet aggregation devices

market?

4. What are the key factors driving the global platelet aggregation devices market?
5. What is the breakup of the global platelet aggregation devices market based on the product?
6. What is the breakup of the global platelet aggregation devices market based on the type?
7. What is the breakup of the global platelet aggregation devices market based on the application?
8. What is the breakup of the global platelet aggregation devices market based on the end user?
9. What are the key regions in the global platelet aggregation devices market?
10. Who are the key players/companies in the global platelet aggregation devices market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL PLATELET AGGREGATION DEVICES MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY PRODUCT**

- 6.1 Systems
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Reagents
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Consumables and Accessories

6.3.1 Market Trends

6.3.2 Market Forecast

## **7 MARKET BREAKUP BY TYPE**

7.1 Four Channel

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Dual Channel

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Eight Channel

7.3.1 Market Trends

7.3.2 Market Forecast

## **8 MARKET BREAKUP BY APPLICATION**

8.1 Clinical Applications

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Research Applications

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Cardiovascular Applications

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Orthopedic Applications

8.4.1 Market Trends

8.4.2 Market Forecast

8.5 Others

8.5.1 Market Trends

8.5.2 Market Forecast

## **9 MARKET BREAKUP BY END USER**

9.1 Hospitals

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Diagnostic Laboratories

- 9.2.1 Market Trends
- 9.2.2 Market Forecast
- 9.3 Research and Academic Institutes
  - 9.3.1 Market Trends
  - 9.3.2 Market Forecast
- 9.4 Others
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

- 10.1 North America
  - 10.1.1 United States
    - 10.1.1.1 Market Trends
    - 10.1.1.2 Market Forecast
  - 10.1.2 Canada
    - 10.1.2.1 Market Trends
    - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
  - 10.2.1 China
    - 10.2.1.1 Market Trends
    - 10.2.1.2 Market Forecast
  - 10.2.2 Japan
    - 10.2.2.1 Market Trends
    - 10.2.2.2 Market Forecast
  - 10.2.3 India
    - 10.2.3.1 Market Trends
    - 10.2.3.2 Market Forecast
  - 10.2.4 South Korea
    - 10.2.4.1 Market Trends
    - 10.2.4.2 Market Forecast
  - 10.2.5 Australia
    - 10.2.5.1 Market Trends
    - 10.2.5.2 Market Forecast
  - 10.2.6 Indonesia
    - 10.2.6.1 Market Trends
    - 10.2.6.2 Market Forecast
  - 10.2.7 Others
    - 10.2.7.1 Market Trends

- 10.2.7.2 Market Forecast
- 10.3 Europe
  - 10.3.1 Germany
    - 10.3.1.1 Market Trends
    - 10.3.1.2 Market Forecast
  - 10.3.2 France
    - 10.3.2.1 Market Trends
    - 10.3.2.2 Market Forecast
  - 10.3.3 United Kingdom
    - 10.3.3.1 Market Trends
    - 10.3.3.2 Market Forecast
  - 10.3.4 Italy
    - 10.3.4.1 Market Trends
    - 10.3.4.2 Market Forecast
  - 10.3.5 Spain
    - 10.3.5.1 Market Trends
    - 10.3.5.2 Market Forecast
  - 10.3.6 Russia
    - 10.3.6.1 Market Trends
    - 10.3.6.2 Market Forecast
  - 10.3.7 Others
    - 10.3.7.1 Market Trends
    - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Market Trends
  - 10.5.2 Market Breakup by Country
  - 10.5.3 Market Forecast

## **11 SWOT ANALYSIS**



- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
  - 15.3.1 AggreDyne Inc.
    - 15.3.1.1 Company Overview
    - 15.3.1.2 Product Portfolio
  - 15.3.2 Chrono-Log Corporation
    - 15.3.2.1 Company Overview
    - 15.3.2.2 Product Portfolio
  - 15.3.3 F. Hoffmann-La Roche AG
    - 15.3.3.1 Company Overview
    - 15.3.3.2 Product Portfolio
    - 15.3.3.3 SWOT Analysis
  - 15.3.4 Grifols S.A.
    - 15.3.4.1 Company Overview
    - 15.3.4.2 Product Portfolio
    - 15.3.4.3 Financials

- 15.3.4.4 SWOT Analysis
- 15.3.5 Hart Biologicals Ltd.
  - 15.3.5.1 Company Overview
  - 15.3.5.2 Product Portfolio
- 15.3.6 Helena Laboratories Corporation
  - 15.3.6.1 Company Overview
  - 15.3.6.2 Product Portfolio
- 15.3.7 Labor BioMedical Technologies GmbH
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
- 15.3.8 Matis Medical Inc.
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio
- 15.3.9 Sentinel Ch. S.P.A.
  - 15.3.9.1 Company Overview
  - 15.3.9.2 Product Portfolio
- 15.3.10 Siemens AG
  - 15.3.10.1 Company Overview
  - 15.3.10.2 Product Portfolio
  - 15.3.10.3 Financials
  - 15.3.10.4 SWOT Analysis
- 15.3.11 Sienco Inc.
  - 15.3.11.1 Company Overview
  - 15.3.11.2 Product Portfolio
- 15.3.12 Sysmex Corporation
  - 15.3.12.1 Company Overview
  - 15.3.12.2 Product Portfolio
  - 15.3.12.3 Financials
  - 15.3.12.4 SWOT Analysis
- 15.3.13 WerfenLife SA
  - 15.3.13.1 Company Overview
  - 15.3.13.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Platelet Aggregation Devices Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Platelet Aggregation Devices Market Forecast: Breakup by Product (in Million US\$), 2023-2028

Table 3: Global: Platelet Aggregation Devices Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 4: Global: Platelet Aggregation Devices Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Platelet Aggregation Devices Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 6: Global: Platelet Aggregation Devices Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Platelet Aggregation Devices Market: Competitive Structure

Table 8: Global: Platelet Aggregation Devices Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Platelet Aggregation Devices Market: Major Drivers and Challenges

Figure 2: Global: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017-2022

Figure 3: Global: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 4: Global: Platelet Aggregation Devices Market: Breakup by Product (in %), 2022

Figure 5: Global: Platelet Aggregation Devices Market: Breakup by Type (in %), 2022

Figure 6: Global: Platelet Aggregation Devices Market: Breakup by Application (in %), 2022

Figure 7: Global: Platelet Aggregation Devices Market: Breakup by End User (in %), 2022

Figure 8: Global: Platelet Aggregation Devices Market: Breakup by Region (in %), 2022

Figure 9: Global: Platelet Aggregation Devices (Systems) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Platelet Aggregation Devices (Systems) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Platelet Aggregation Devices (Reagents) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Platelet Aggregation Devices (Reagents) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Platelet Aggregation Devices (Consumables and Accessories) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Platelet Aggregation Devices (Consumables and Accessories) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Platelet Aggregation Devices (Four Channel) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Platelet Aggregation Devices (Four Channel) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Platelet Aggregation Devices (Dual Channel) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Platelet Aggregation Devices (Dual Channel) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Platelet Aggregation Devices (Eight Channel) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Platelet Aggregation Devices (Eight Channel) Market Forecast: Sales

Value (in Million US\$), 2023-2028

Figure 21: Global: Platelet Aggregation Devices (Clinical Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Platelet Aggregation Devices (Clinical Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Platelet Aggregation Devices (Research Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Platelet Aggregation Devices (Research Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Platelet Aggregation Devices (Cardiovascular Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Platelet Aggregation Devices (Cardiovascular Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Platelet Aggregation Devices (Orthopedic Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Platelet Aggregation Devices (Orthopedic Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Platelet Aggregation Devices (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Platelet Aggregation Devices (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Platelet Aggregation Devices (Hospitals) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Platelet Aggregation Devices (Hospitals) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Platelet Aggregation Devices (Diagnostic Laboratories) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Platelet Aggregation Devices (Diagnostic Laboratories) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Platelet Aggregation Devices (Research and Academic Institutes) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Platelet Aggregation Devices (Research and Academic Institutes) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Platelet Aggregation Devices (Other End Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Platelet Aggregation Devices (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: North America: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: North America: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: United States: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: United States: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Canada: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Canada: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Asia-Pacific: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Asia-Pacific: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: China: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: China: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Japan: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Japan: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: India: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: India: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: South Korea: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: South Korea: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Australia: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Australia: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Indonesia: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Indonesia: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Others: Platelet Aggregation Devices Market: Sales Value (in Million US\$),

2017 & 2022

Figure 60: Others: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Europe: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Europe: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Germany: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Germany: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: France: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: France: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: United Kingdom: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: United Kingdom: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Italy: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Italy: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Spain: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Spain: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Russia: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Russia: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Others: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Others: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Latin America: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Latin America: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028



Figure 79: Brazil: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Brazil: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Mexico: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Mexico: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Others: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 84: Others: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Middle East and Africa: Platelet Aggregation Devices Market: Sales Value (in Million US\$), 2017 & 2022

Figure 86: Middle East and Africa: Platelet Aggregation Devices Market: Breakup by Country (in %), 2022

Figure 87: Middle East and Africa: Platelet Aggregation Devices Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 88: Global: Platelet Aggregation Devices Industry: SWOT Analysis

Figure 89: Global: Platelet Aggregation Devices Industry: Value Chain Analysis

Figure 90: Global: Platelet Aggregation Devices Industry: Porter's Five Forces Analysis



## I would like to order

Product name: Platelet Aggregation Devices Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/P8E5E68E843DEN.html>

Price: US\$ 2,499.00 (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/P8E5E68E843DEN.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

