

South & Central America Robotic Welding Cell Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Offering (Solution and Services), Cell Type (Pre-Engineered Cells and Custom Cells), and End-Use Industry (Automotive, Manufacturing, and Aerospace and Defense)

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Abstracts

The South and Central America (SAM) robotic welding cell market is projected to grow significantly, reaching an estimated US\$ 85.71 million by 2031, up from US\$ 40.54 million in 2023. This growth represents a compound annual growth rate (CAGR) of 9.8% from 2023 to 2031.

Executive Summary and Market Analysis

The SAM robotic welding cell market is primarily segmented into Brazil, Argentina, and the Rest of SAM. Despite facing various economic challenges, the region is expected to benefit from favorable government initiatives that will bolster the growth of its economies during the forecast period. Notably, SAM has the highest urbanization rate in the world, largely due to government policies that promote the development of industrial and technological sectors. For example, Argentina is actively working to attract foreign direct investments (FDIs) by implementing measures such as relaxing import restrictions, signing international bilateral agreements, and allowing unrestricted foreign investments. These initiatives have positively impacted the automotive industry in the region.

The passenger car and commercial vehicle sectors in SAM are gradually recovering,

having been significantly affected by past economic crises and currency fluctuations. The Brazilian market, in particular, is showing signs of steady recovery, which is beneficial for the overall automotive industry. The commercial vehicle segment holds a substantial market share in terms of production, sales, and exports. Increased sales and a rising demand for commercial vehicles, supported by low-interest rates, are driving consumer interest in vehicle purchases across the region. Additionally, the growing production of vehicles and increased investments by original equipment manufacturers (OEMs) to expand their operations in SAM are further fueling the demand for robotic welding cells.

Strategic Insights

Market Segmentation Analysis

The South and Central America robotic welding cell market can be analyzed through several key segments, including offering, cell type, and end-use industry:

Offering: The market is divided into solutions and services, with the solutions segment holding a larger market share in 2023.

Cell Type: The market is categorized into pre-engineered cells and custom cells, where pre-engineered cells dominated the market in 2023.

End-Use Industry: The market is segmented into automotive, manufacturing, and aerospace and defense, with the manufacturing sector holding the largest share in 2023.

Market Outlook

The advent of Industry 4.0 is revolutionizing the manufacturing landscape by emphasizing automation. This paradigm shift leverages technologies such as the Industrial Internet of Things (IIoT), cloud computing, and cyber-physical systems to enhance productivity and facilitate real-time decision-making, thereby reducing the need for human intervention. These technologies are integrated with embedded software, sensors, and robotics to optimize processes and equipment, leading to increased efficiency and productivity.

Various end-use industries, including automotive, transportation, metals and machinery,

and aerospace and defense, are increasingly adopting Industry 4.0 principles in their manufacturing processes. The benefits of this adoption include enhanced productivity, flexibility, safety, improved quality, reduced need for consumables, and lower production costs. According to the World Economic Forum, approximately 153 manufacturers are part of the Global Lighthouse Network, which is at the forefront of Industry 4.0 technology adoption. In 2023, 21 new manufacturers joined this community, indicating a growing trend towards automation and the consequent demand for industrial robots, including welding robots.

Country Insights

The SAM robotic welding cell market is further analyzed by country, comprising Brazil, Argentina, and the Rest of South America. The Rest of South America held the largest market share in 2023, with key players in this segment including Chile, Colombia, and Peru. Chile is focusing on robotics and artificial intelligence to boost productivity across various industries. Additionally, several international companies are establishing operations in these countries, which is expected to enhance the adoption of robotic technologies. For instance, in May 2024, ANYbotics partnered with Rever to develop autonomous solutions for the Chilean market, while Zippedi announced a collaboration with SMU in April 2024 to deploy industrial robots in Chile. Such strategic expansions are driving the demand for robotic welding cells in the region. Other countries like Peru and Colombia are also emerging as promising markets for industrial robots.

Company Profiles

Key players in the SAM robotic welding cell market include ABB Ltd, Acieta, Carl Cloos Schweisstechnik GmbH, Lincoln Electric Holdings Inc, Kuka AG, Kawasaki Heavy Industries Ltd, Phoenix Industrial Solutions, WEC Group Ltd, Yaskawa America Inc, Zeman Bauelemente Produktionsgesellschaft mbH, Fanuc Corp, Fronius International GmbH, ESAB, OTC DAIHEN, Kemppi Oy, Panasonic Holdings Corp, and Universal Robots A/S. These companies are employing various strategies such as market expansion, product innovation, and mergers and acquisitions to enhance their offerings and increase their market share.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:
- 3.3 Assumptions and Limitations

4. SOUTH AND CENTRAL AMERICA ROBOTIC WELDING CELL MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis
- 4.3 List of Vendors in the Value Chain

5. SOUTH AND CENTRAL AMERICA ROBOTIC WELDING CELL MARKET - KEY MARKET DYNAMICS

- 5.1 South and Central America Robotic Welding Cell Market - Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Increasing Adoption of Robots in the Manufacturing Industry
 - 5.2.2 Growing Automotive Industry
 - 5.2.3 Rising Adoption of Industry 4.0
- 5.3 Market Restraints

5.3.1 Preference for Manual Welding

5.4 Future Trends

5.4.1 Integration of Artificial Intelligence (AI) in Robotic Welding

5.5 Market Opportunities

5.5.1 Increasing Adoption of Laser and Plasma Welding Technologies

5.6 Impact of Drivers and Restraints:

6. SOUTH AND CENTRAL AMERICA ROBOTIC WELDING CELL MARKET - ANALYSIS

6.1 South and Central America Robotic Welding Cell Market Revenue (US\$ Million), 2021-2031

6.2 South and Central America Robotic Welding Cell Market Forecast Analysis

7. SOUTH AND CENTRAL AMERICA ROBOTIC WELDING CELL MARKET ANALYSIS - BY OFFERING

7.1 Solution

7.1.1 Overview

7.1.2 Solution: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.2 Services

7.2.1 Overview

7.2.2 Services: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8. SOUTH AND CENTRAL AMERICA ROBOTIC WELDING CELL MARKET ANALYSIS - BY CELL TYPE

8.1 Pre-Engineered Cells

8.1.1 Overview

8.1.2 Pre-Engineered Cells: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.2 Custom Cells

8.2.1 Overview

8.2.2 Custom Cells: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

9. SOUTH AND CENTRAL AMERICA ROBOTIC WELDING CELL MARKET

South & Central America Robotic Welding Cell Market Size and Forecast (2021 - 2031), Regional Share, Trend, an...

ANALYSIS - BY END-USE INDUSTRY

9.1 Automotive

9.1.1 Overview

9.1.2 Automotive: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

9.2 Manufacturing

9.2.1 Overview

9.2.2 Manufacturing: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

9.3 Aerospace and Defense

9.3.1 Overview

9.3.2 Aerospace and Defense: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

10. SOUTH AND CENTRAL AMERICA ROBOTIC WELDING CELL MARKET - COUNTRY ANALYSIS

10.1 South and Central America

10.1.1 South and Central America Robotic Welding Cell Market - Revenue and Forecast Analysis - by Country

10.1.1.1 South and Central America Robotic Welding Cell Market - Revenue and Forecast Analysis - by Country

10.1.1.2 Brazil: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

10.1.1.2.1 Brazil: South and Central America Robotic Welding Cell Market Share - by Offering

10.1.1.2.2 Brazil: South and Central America Robotic Welding Cell Market Share - by Cell Type

10.1.1.2.3 Brazil: South and Central America Robotic Welding Cell Market Share - by End-use Industry

10.1.1.3 Argentina: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

10.1.1.3.1 Argentina: South and Central America Robotic Welding Cell Market Share - by Offering

10.1.1.3.2 Argentina: South and Central America Robotic Welding Cell Market Share - by Cell Type

10.1.1.3.3 Argentina: South and Central America Robotic Welding Cell Market Share - by End-use Industry

10.1.1.4 Rest of South and Central America: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

10.1.1.4.1 Rest of South and Central America: South and Central America Robotic Welding Cell Market Share - by Offering

10.1.1.4.2 Rest of South and Central America: South and Central America Robotic Welding Cell Market Share - by Cell Type

10.1.1.4.3 Rest of South and Central America: South and Central America Robotic Welding Cell Market Share - by End-use Industry

11. COMPETITIVE LANDSCAPE

11.1 Heat Map Analysis by Key Players

11.2 Company Positioning and Concentration

12. INDUSTRY LANDSCAPE

12.1 Overview

12.2 Market Initiative

12.3 Partnerships and Collaborations

12.4 Other Developments

13. COMPANY PROFILES

13.1 ABB Ltd

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

13.1.6 Key Developments

13.2 Acieta

13.2.1 Key Facts

13.2.2 Business Description

13.2.3 Products and Services

13.2.4 Financial Overview

13.2.5 SWOT Analysis

13.2.6 Key Developments

13.3 Carl Cloos Schweisstechnik GmbH

13.3.1 Key Facts

- 13.3.2 Business Description
- 13.3.3 Products and Services
- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments
- 13.4 Lincoln Electric Holdings Inc
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Kuka AG
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Kawasaki Heavy Industries Ltd
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Phoenix Industrial Solutions.
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 WEC Group Ltd
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis

- 13.8.6 Key Developments
- 13.9 Yaskawa America Inc
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 Zeman Bauelemente Produktionsgesellschaft mbH
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments
- 13.11 Fanuc Corp
 - 13.11.1 Key Facts
 - 13.11.2 Business Description
 - 13.11.3 Products and Services
 - 13.11.4 Financial Overview
 - 13.11.5 SWOT Analysis
 - 13.11.6 Key Developments
- 13.12 Fronius International GmbH
 - 13.12.1 Key Facts
 - 13.12.2 Business Description
 - 13.12.3 Products and Services
 - 13.12.4 Financial Overview
 - 13.12.5 SWOT Analysis
 - 13.12.6 Key Developments
- 13.13 ESAB
 - 13.13.1 Key Facts
 - 13.13.2 Business Description
 - 13.13.3 Products and Services
 - 13.13.4 Financial Overview
 - 13.13.5 SWOT Analysis
 - 13.13.6 Key Developments
- 13.14 OTC DAIHEN
 - 13.14.1 Key Facts
 - 13.14.2 Business Description

- 13.14.3 Products and Services
- 13.14.4 Financial Overview
- 13.14.5 SWOT Analysis
- 13.14.6 Key Developments
- 13.15 Kemppi Oy
 - 13.15.1 Key Facts
 - 13.15.2 Business Description
 - 13.15.3 Products and Services
 - 13.15.4 Financial Overview
 - 13.15.5 SWOT Analysis
 - 13.15.6 Key Developments
- 13.16 Panasonic Holdings Corp
 - 13.16.1 Key Facts
 - 13.16.2 Business Description
 - 13.16.3 Products and Services
 - 13.16.4 Financial Overview
 - 13.16.5 SWOT Analysis
 - 13.16.6 Key Developments
- 13.17 Universal Robots A/S
 - 13.17.1 Key Facts
 - 13.17.2 Business Description
 - 13.17.3 Products and Services
 - 13.17.4 Financial Overview
 - 13.17.5 SWOT Analysis
 - 13.17.6 Key Developments

14. APPENDIX

- 14.1 About Us
- 14.2 List of Abbreviations

List Of Tables

LIST OF TABLES

Table 1. South and Central America Robotic Welding Cell Market Segmentation

Table 2. List of Vendors

Table 3. South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Table 4. South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Offering

Table 5. South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Cell Type

Table 6. South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by End-use Industry

Table 7. South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Country

Table 8. Brazil: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by Offering

Table 9. Brazil: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by Cell Type

Table 10. Brazil: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by End-use Industry

Table 11. Argentina: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by Offering

Table 12. Argentina: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by Cell Type

Table 13. Argentina: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by End-use Industry

Table 14. Rest of South and Central America: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by Offering

Table 15. Rest of South and Central America: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by Cell Type

Table 16. Rest of South and Central America: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021 - 2031(US\$ Million) - by End-use Industry

Table 17. List of Abbreviations

List Of Figures

LIST OF FIGURES

- Figure 1. South and Central America Robotic Welding Cell Market Segmentation - Country
- Figure 2. Impact Analysis of Drivers and Restraints
- Figure 3. South and Central America Robotic Welding Cell Market Revenue (US\$ Million), 2021-2031
- Figure 4. South and Central America Robotic Welding Cell Market Share (%) - by Offering (2023 and 2031)
- Figure 5. Solution: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 6. Services: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 7. South and Central America Robotic Welding Cell Market Share (%) - by Cell Type (2023 and 2031)
- Figure 8. Pre-Engineered Cells: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 9. Custom Cells: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 10. South and Central America Robotic Welding Cell Market Share (%) - by End-use Industry (2023 and 2031)
- Figure 11. Automotive: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 12. Manufacturing: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 13. Aerospace and Defense: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 14. South and Central America Robotic Welding Cell Market Breakdown, by Key Countries, 2023 and 2031 (%)
- Figure 15. Brazil: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021- 2031 (US\$ Million)
- Figure 16. Argentina: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021- 2031 (US\$ Million)
- Figure 17. Rest of South and Central America: South and Central America Robotic Welding Cell Market - Revenue and Forecast, 2021- 2031 (US\$ Million)
- Figure 18. Heat Map Analysis by Key Players
- Figure 19. Company Positioning and Concentration

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