Selective Soldering - Global Strategic Business Report

Description: The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World. Annual estimates and forecasts are provided for the period 2015 through 2022. Also, a six-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs.

This report analyzes the worldwide markets for Selective Soldering in US$ Thousand.

The report profiles 42 companies including many key and niche players such as -

ACE Production Technologies, Inc.
DDM Novastar LLC
Ebso GmbH
EPM Handels AG
ERSA GmbH

Contents:
I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS
Study Reliability and Reporting Limitations
Disclaimers
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study

II. EXECUTIVE SUMMARY
1. INDUSTRY OVERVIEW
A Prelude
Selective Soldering Machines and Equipment
Key Features and Uses
Wave Height Monitoring
Top-side Preheating
Inert Atmosphere Control and Solder Delivery
Nitrogen Peel-off Jet
Dual Head Fluxers
Swappable Solder Pots
Larger Nozzles
Growth of SMT Equipment and Flexible PCBs Form Strong Base for Rising SSE Demand
Opportunity Indicators
Table 1: Global Electronics Systems Market by End-Use Industry (2015): Percentage Breakdown of Sales for Computers & Peripheral, Communication Devices, Consumer Electronic Devices, Automotive Electronics, Industrial Electronics, and Aerospace/Defense Electronics (includes corresponding Graph/Chart)
Table 2: World Market for PCBs (2015): Percentage Share Breakdown of Key End-Use Application Markets (includes corresponding Graph/Chart)
Growth of Flexible Printed Circuit Boards
A Business Case for SSE
Selective Soldering Still Enjoys Growth despite Shift from TH to SMT Component
Laser Soldering
An Important Selective Soldering Process
Types of Selective Soldering Processes and Their Features
Market Outlook
Asia-Pacific
Dominates the Global Scenario
Europe and the US
Other Prominent Markets
2. GROWTH DRIVERS, MARKET TRENDS AND ISSUES
Small but Persistent Demand for Through-Hole Components Drives Growth
Automation
A Buzz Word in Selective Soldering Market
Automated Selective Soldering of SMT Components
Automated Selective Soldering Need of the Hour for Soldering PCBs with Double-Sided SMT Content
Innovations Drive Selective Soldering Market Growth
Selective Aperture Tooling over Wave Solder
Mass Selective Dip Solder Foundation
Miniature Wave Selective Solder Fountains
Laser Selective Soldering System
Selective Flux Applicators
Advantages of Miniature Wave Selective Soldering over Wave Soldering
No-Clean Flux Encourages Efficiency in Selective Soldering
Cost and Quality Issues Drive Industry towards Selective Soldering
Shrinking Component Size Paints Brighter Prospects
Next Generation Electronics: A Tantalizing Opportunity for Selective Soldering
Challenges Associated with Use of SSE

3. OVERVIEW OF SELECT END-USE INDUSTRIES
From OEMs to CEMs and EMS Providers: Changing Customer Profile
Important End Uses of Surface Mount Technology
Developments in Automotive Electronics Drives Opportunities for SSE
Table 3: Automotive Electronics as a Percentage of Vehicle Production Cost (includes corresponding Graph/Chart)
Table 4: Increasing Electronic Content in Automobiles as a Percentage of Vehicle Value (includes corresponding Graph/Chart)
Enabling the Electronic Marvel
Telecommunications Soars Demand
Healthcare Segment Reinforcing Growth in Selective Soldering Equipment Industry
Selective Soldering Machines in Medical EMS
Growing Proliferation of Consumer Electronic Devices to Drive Demand for Selective Soldering
Table 5: Global Market for Consumer Electronics (2012 & 2015): Breakdown of Annual Revenue (in US$ Billion) by Region/Country for US, Canada, Europe, Asia-Pacific (including Japan), Middle East, and Latin America (includes corresponding Graph/Chart)
Electronic Manufacturing Services Industry: A Key Customer of Selective Soldering Equipment
Advent of Laser Soldering in Various Industries
Industrial Applications
Electronics Manufacturing
Automobile Application
Medical Application
Laser Soldering Optoelectronics

4. TECHNOLOGY INNOVATIONS
Solder Nozzles Cleaning
Innovative Patented Ultrasonic Technology
Development of Direct Diode Lasers
Latest Feature Additions in i-Pulse Machines
Development of the InnoLot Lead-Free Alloy for Automotive Electronics
Development of Preheated Solder Joints for Power Electronics
Solder Masks
Soldering of Image Sensors to PCBs
Electrostatic Damage
Board Assembly
Manual Soldering of Leaded or Pinned Devices
Reflow-Soldering
Lead-Free Soldering

5. PRODUCT OVERVIEW
Selective Soldering
An Introduction
Evolution of Automated Soldering
Automated Selective Soldering
Selective Wave Soldering
Selective Fountain Soldering
Programmable Selective Soldering
Selective Miniwave Soldering
Selective Laser Soldering
Advantages of Laser Soldering
Limitations of Laser Soldering
Classification of Laser Soldering Processes
Single Spot Soldering Process
Simultaneous Soldering
Mask Soldering
Round-table Selective Soldering
Automatic Soldering Techniques
Reflow Soldering
Wave Soldering
Circuit-board Loading Station
Fluxing Station
Pre-heating Station
Soldering Station
Classification of Solder Joints
Good Solder Joint
Poor Solder Fillet
Shorts
Solder Paste Application/Paste Printing
The Blue Print
Important Considerations for Good Quality Printing
Why Use Solder Paste?
Which Type of Solder Paste to be Used?
Prerequisites of an Ideal Solder Paste
Regulations on the Usage of Solder Pastes
Other Soldering Techniques
Advantages of Using Selective Soldering Processes
Encountering Selective Soldering Problems
Stringing/Webbing
Fillet Tearing
Copper Dissolution
Key Process Issues for Lead-free Selective Soldering
Wave Height Monitoring
Top Side Preheating
Solder Delivery and Inert Atmosphere Control
Nitrogen Peel-off Jet
Dual Head Fluxers
Swappable Solder Pots for Lead-free
Larger Nozzles
Factors Affecting Investment in Selective Soldering Equipment
Stamp Soldering
Benefits of Stamp Soldering
Diode Lasers
Creating Opportunity through “FlashSoldering”
Hot Bar
Common Soldering Iron
Micro-flame
Road Ahead for FlashSoldering

6. PRODUCT INTRODUCTIONS/INNOVATIONS
ACE to Showcase KISS-103IL, a Novel Selective Soldering Technology at SMT
Vitronics Soltec to Launch New ZEVAm Selective Soldering Platform
Seho North America Introduces GoSelective-LS Selective Soldering Machine
Manncorp Releases IS-T-300, an All-in-One Selective Fluxing and Soldering System
Kurtz Ersa Showcases Complete Range of Ersa’s Selective Soldering Equipment
SEHO Systems Showcases SelectLine and LeanSelect Selective Soldering Systems
Fero Launches Selective Soldering Machines of Interselect in New Zealand
ACE Production Technologies Showcases KISS-102IL Selective Soldering Machine
Count On Tools Develops Selective Soldering Nozzles for Pillarhouse Equipment
Soltec Introduces Two Novel Selective Soldering Platforms
DDM Introduces Model IS-B 335S, Automatic Selective Soldering Machine
RPS Automation Showcases FRX10 Selective Soldering System
RPS Introduces Complete Range of Selective Soldering Equipment
RPS Releases Economy Line of Selective Soldering with FRX16
Soltec Showcases 6746 Selective Soldering Machine and XPM3i Reflow Oven

7. RECENT INDUSTRY ACTIVITY
Wistron Corporation Selects ACE Selective Soldering System in China
BAE Systems Completes Installation of second Selective Soldering System from ACE
Celestica Completes Installation of KISS-103IL Selective Soldering System
Accelerated Assemblies Invests KISS-102IL Selective Soldering System
Diehl Controls Orders EBSO SPA 400 NC Selective Soldering Systems
Soltec Inks Partnership Deal with EMEA Electro Solutions
ACE Production Technologies Inaugurates Demo Center in Mexico
Seika Machinery Acquires Malcomtech International
ACE Inks Partnership Deal with Rochester Institute of Technology
Vitronics Soltec Inks Distribution Agreement with Seica S.p.A.
XetaWave Installs ACE’s Selective Soldering System
Teledyne Printed Circuit Technology Selects Ersa for Selective Soldering
W&S Benelux Selects Inertec Selective Soldering Solutions
eTech-WEB Selects Juki’s CUBE.460 Selective Soldering System
Conelec Electronic Manufacturing Selects Ersa’s ECOSELECT 2
HP Caribe BV and Ersa Ink Partnership Deal
RPS Partners with South-Tek Systems for Developing Nitrogen Generation System
Soltec Inks Partnership Agreement with EPM
Vitronics Soltec Enters Into Partnership Agreement with SMT House
Gen3 Systems Bags a Contract from ZOT Engineering for Supply of KISS 103
Conelec Electronic Selects Ersa ECOSELECT 2™ Selective Soldering System
Electronic Technologies Purchases ACE’s KISS-103 Selective Solder Machine
S and Y Industries Install KISS-140 Selective Wave Soldering Machine

8. FOCUS ON SELECT PLAYERS
ACE Production Technologies, Inc. (US)
DDM Novastar LLC (US)
Ebso GmbH (Germany)
EPM Handels AG (Switzerland)
ERSA GmbH (Germany)
FTM Technologies (France)
INERTEC Löttechnologien GmbH (Germany)
Japan Unix Co. Ltd. (Japan)
Juki Automation Systems, Inc. (US)
Pillarhouse USA, Inc. (US)
RPS Automation, LLC (US)
SEHO Systems GmbH (Germany)
Shenzhen JT Automation Equipment Co., Ltd. (China)
Tai’an Puhui Electric Technology Co., Ltd. (China)
Tamura H.A. Machinery, Inc. (US)
Vitronics Soltec BV (The Netherlands)

9. GLOBAL MARKET PERSPECTIVE
Table 6: World Recent Past, Current & Future Analysis for Selective Soldering Equipment by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 7: World Historic Review for Selective Soldering Equipment by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes
III. MARKET

1. THE UNITED STATES
   A. Market Analysis
      Current and Future Analysis
      Growth Trends in Selective Soldering Market
      Pricing Scenario
      Shift towards Modular Equipment
      R&D Efforts in Selective Soldering Market
      Product Launches
      Strategic Corporate Developments
   B. Market Analytics
      Table 9: US Recent Past, Current & Future Analysis for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
      Table 10: US Historic Review for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

2. CANADA
   Market Analysis
      Table 11: Canadian Recent Past, Current & Future Analysis for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
      Table 12: Canadian Historic Review for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

3. JAPAN
   A. Market Analysis
      Current and Future Analysis
      Key Players
   B. Market Analytics
      Table 13: Japanese Recent Past, Current & Future Analysis for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
      Table 14: Japanese Historic Review for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4. EUROPE
   A. Market Analysis
      Current and Future Analysis
      Revival in SMT Reflow Soldering Equipment Demand in Europe
      A Case in Point
      Product Launches
      Strategic Corporate Developments
      Key Players
   B. Market Analytics
      Table 15: European Recent Past, Current & Future Analysis for Selective Soldering Equipment by Geographic Region
      Europe Independently Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
      Table 16: European Historic Review for Selective Soldering Equipment by Geographic Region
      Europe Independently Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)
      Table 17: European 14-Year Perspective for Selective Soldering Equipment by Geographic Region
      Percentage Breakdown of Annual Revenues for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC
A. Market Analysis
Current & Future Analysis
Soaring Growth Opportunities
Snapshot of Electronics Industry in Asia-Pacific
Well Established ECMS Industry Drives Demand for Selective Soldering Equipment
Price-based Competition
Product Launch
Key Players

B. Market Analytics
Table 18: Asia-Pacific Recent Past, Current & Future Analysis for Selective Soldering Equipment by Geographic Region
China, South Korea, Taiwan and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 19: Asia-Pacific Historic Review for Selective Soldering Equipment by Geographic Region
China, South Korea, Taiwan and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)
Table 20: Asia-Pacific 14-Year Perspective for Selective Soldering Equipment by Geographic Region Percentage Breakdown of Annual Revenues for China, South Korea, Taiwan and Rest of Asia-Pacific Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

6. LATIN AMERICA
Market Analysis
Table 21: Latin American Recent Past, Current & Future Analysis for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 22: Latin American Historic Review for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

7. REST OF WORLD
Market Analysis
Table 23: Rest of World Recent Past, Current & Future Analysis for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)
Table 24: Rest of World Historic Review for Selective Soldering Equipment Market Analyzed with Annual Revenues in US$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE
Total Companies Profiled: 42 (including Divisions/Subsidiaries 47)
The United States (12)
Canada (1)
Japan (6)
Europe (19)
- France (1)
- Germany (8)
- The United Kingdom (1)
- Italy (2)
- Rest of Europe (7)
Asia-Pacific (Excluding Japan) (9)

Ordering:
Order Online - http://www.researchandmarkets.com/reports/1382371/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Selective Soldering - Global Strategic Business Report
Web Address: http://www.researchandmarkets.com/reports/1382371/
Office Code: SC2G2LLU

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 4500</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 6300</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 10 Users:</td>
<td>USD 8550</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 15 Users:</td>
<td>USD 10800</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title:  Mr  □  Mrs  □  Dr  □  Miss  □  Ms  □  Prof  □  Last Name:  
First Name:  
Email Address:  *
Job Title:  
Organisation:  
Address:  
City:  
Postal / Zip Code:  
Country:  
Phone Number:  
Fax Number:  

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

<table>
<thead>
<tr>
<th>Account number</th>
<th>833 130 83</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:

(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World