

Global Markets for Roll-to-Roll Technologies for Flexible Devices

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Abstracts

Report Scope:

This report provides an updated review of R2R technologies for flexible devices, including a description of various device types and R2R fabrication processes, and identifies current and emerging devices fabricated using R2R technologies.

BCC Research delineates the current market status for these products, defines trends, and presents growth forecasts for the next five years. The R2R technologies for flexible devices market is based on the following segments: process category, substrate material, deposition method, application, and region. In addition, technological issues, including key events and the latest developments, are discussed.

More specifically, the market analysis conducted by BCC Research for this report is divided into five sections.

In the first section, an introduction to the topic and a historical review of R2R technologies for flexible devices are provided, including an outline of recent events. This section identifies devices that are currently commercially available or emerging and offers a description of the main types. The second section provides a technological review of the fabrication steps used to manufacture R2R flexible devices, with an outline of the most common processes. This section concludes with an analysis of the most important technological developments since 2018, including examples of significant patents recently issued or applied. The chapter ends with a highlight of the most active research organizations operating in this field and their activities.

The third section entails a global market analysis of R2R technologies for flexible

devices. Global revenues (sales data in millions of dollars) are presented for each segment (process category, substrate material, deposition method, application, and region), with actual data referring to the years 2020 and 2021 and estimates for 2022. Dollar figures refer to sales of flexible devices by R2R at the manufacturing level.

The analysis of current revenues for R2R technologies for flexible devices is followed by a detailed presentation of market growth trends, based on industry growth, technological trends, and regional trends. The third section concludes by providing projected revenues for R2R technologies for flexible devices within each segment, together with forecast compound annual growth rates (CAGRs) for the period 2021 through 2026. Projected and forecast revenue values are in constant U.S. dollars, unadjusted for inflation.

In the fourth section of the study, which covers global industry structure, the report offers a list of the leading manufacturers of R2R technologies for flexible devices, together with a description of their products. The analysis includes a description of the geographical distribution of these firms and an evaluation of other key industry players. Detailed company profiles of the top players are also provided.

The fifth and final section includes an analysis of recently issued U.S. patents, with a summary of patents related to materials, fabrication methods, equipment, and applications for R2R flexible devices. Patent analysis is performed by region, country, and assignee.

Report Includes:

50 data tables and 27 additional tables

An overview of the global market for roll-to-roll technologies for flexible devices

Estimation of the market size and analyses of global market trends, with data from 2020, 2021, estimates for 2022, 2024, with projections of compound annual growth rates (CAGRs) through 2026

Description of roll-to-roll and batch processes, discussion on importance of flexible devices and R2R processes, and assessment of current and emerging flexible devices produced by roll-to-roll technologies

Coverage of milestones in the history of R2R flexible devices and recent events

of the industry and highlights of the market potential for roll-to-roll technologies for flexible devices market, based on technology, process category, deposition method, substrate materials, application, and region

Market share analysis of the key companies of the industry and coverage of their proprietary technologies, strategic alliances, and other key market strategies and a relevant patent analysis

Comprehensive company profiles of the leading players, including 3M, Career Technologies, Fujikura Ltd., Johnson Electric Holdings Ltd., Interflex Co. Ltd. and Career Technologies

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FLEXIUM INTERCONNECT INC.
FUJIKURA LTD.
INTERFLEX CO. LTD.
JOHNSON ELECTRIC HOLDINGS LTD.

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