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

Description: This report provides new insights on flexible devices that are produced using R2R technologies, as well as outlines technological trends and offer an updated market analysis for these products. Includes forecast through 2020.

This report provides:

- An overview of the market for roll-to-roll (R2R) technologies in the development and commercialization of flexible devices, including electronic devices, such as flexible displays, and energy devices, such as flexible solar cells
- Analyses of global market trends, with data from 2014, estimates for 2015, and projections of compound annual growth rates (CAGRs) through 2020
- Description of various types of flexible devices produced by R2R methods, together with a historical review of the technology and an outline of the most significant recent developments; current and emerging applications for these products also will be discussed
- Examination of technical issues, and examples of significant patents recently issued or applied for
- A list of the leading providers of R2R technologies and flexible devices, along with a description of their products
- Profiles of major players in the industry

Reasons For Doing This Study:

Although the first flexible circuits were produced in the early 1900s, introduction of R2R technologies for manufacturing these circuits occurred many years later in Japan during the 1980s. The use of R2R methods has become more common, while various processes have been adapted for applications in creating patterns on flexible substrates.

The need to produce advanced devices on a large scale with high throughput, low cost, and high quality, while at the same time using fabrication methods that are environmentally friendly and energy efficient is also leading to the rapid expansion of the printed electronics market. This market is currently valued at approximately $9 billion and is estimated to grow at a robust rate during the five-year period between 2015 and 2020.

The availability of various printing methods adapted to R2R processing represents a major contributing factor to the current and future expansion of the flexible device market.

The principal reason for this report is to present a current assessment of the R2R flexible device industry from both a technological and market point of view, as well as outline future trends and key developments.

There is also a need to evaluate the current status and future trends of this market from a global standpoint. As the use of these products expands and new fields of application emerge, information on suppliers and developers of these devices and their regional distribution becomes more valuable.

In addition, this report aims to provide technical insights into R2R manufacturing of flexible devices by:

- Providing a review of fabrication technologies.
- Identifying current technological trends.
- Providing an overview of the main global research and development (R&D) activities related to R2R flexible devices, resulting in the issuance of patents.
- Illustrating the latest technological developments.
- This information can assist companies in identifying opportunities for process and productivity improvements and new product development, resulting in a positive impact on future market growth.

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