

2018-2023 Global Laser Processing Acousto-Optics Device Consumption Market Report

<https://marketpublishers.com/r/2235EFE5585EN.html>

Date: August 2018

Pages: 137

Price: US\$ 4,660.00 (Single User License)

ID: 2235EFE5585EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Laser Processing Acousto-Optics Device market for 2018-2023.

Three categories of acousto-optic devices will be mainly discussed in this report. They include the acousto-optic modulator, filter and deflector.

Acousto-optic modulator

By varying the parameters of the acoustic wave, including the amplitude, phase, frequency and polarization, properties of the optical wave may be modulated. The acousto-optic interaction also makes it possible to modulate the optical beam by both temporal and spatial modulation.

A simple method of modulating the optical beam travelling through the acousto-optic device is done by switching the acoustic field on and off. When off the light beam is undiverted, the intensity of light directed at the Bragg diffraction angle is zero. When switched on and Bragg diffraction occurs, the intensity at the Bragg angle increases. So the acousto-optic device is modulating the output along the Bragg diffraction angle, switching it on and off. The device is operated as a modulator by keeping the acoustic wavelength (frequency) fixed and varying the drive power to vary the amount of light in the deflected beam.

Acousto-optic filter

The principle behind the operation of acousto-optic filters is based on the wavelength of the diffracted light being dependent on the acoustic frequency. By tuning the frequency of the acoustic wave, the desired wavelength of the optical wave can be diffracted

acousto-optically.

There are two types of the acousto-optic filters, the collinear and non-collinear filters. The type of filter depends on geometry of acousto-optic interaction.

Acousto-optic deflectors

An acousto-optic deflector (AOD) spatially controls the optical beam. In the operation of an acousto-optic deflector the power driving the acoustic transducer is kept on, at a constant level, while the acoustic frequency is varied to deflect the beam to different angular positions.

The concentration of Laser Processing Acousto-Optic Devices industry is high. The top manufacturers are Gooch&Housego, Brimrose and Harris. Each of production, respectively with global sales market share as 45.36%, 18.39% and 8.63% in 2016. Other key manufacturers include Isomet, AA Opto-Electronic Company, A·P·E GmbH, IntraAction Corp and Panasonic.

The Laser Processing Acousto-Optic Device market is expected to be worth USD 70.65 Million by 2023, at a CAGR of 8% between 2017 and 2023. Laser Processing Acousto-Optic Device are used with laser systems for marking semiconductor components; hence, the players in the laser technology market are offering various high-speed semiconductor marking solutions, which in turn would boost the demand for acousto-optic devices technology in semiconductor and electronics vertical. Although Laser Processing Acousto-Optic Devices brings a lot of opportunities, the study group recommends the new entrants just having money but without technical advantage and upstream and downstream support do not to enter into this field.

Over the next five years, LPI(LP Information) projects that Laser Processing Acousto-Optics Device will register a 6.8% CAGR in terms of revenue, reach US\$ 66 million by 2023, from US\$ 45 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Laser Processing Acousto-Optics Device market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Acousto-optic Modulator

Acousto-optic Deflector

Acousto-optic Tunable Filter

Others

Segmentation by application:

CO2 Laser Processing Machine

Fiber Laser Processing Machine

YAG Processing Machine

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Gooch & Housego

Brimrose

Harris

Coherent

Isomet

AA Opto Electronic

A.P.E Angewandte Physik

IntraAction Electronics

Panasonic

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Laser Processing Acousto-Optics Device consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Laser Processing Acousto-Optics Device market by identifying its various subsegments.

Focuses on the key global Laser Processing Acousto-Optics Device manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Laser Processing Acousto-Optics Device with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the

market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Laser Processing Acousto-Optics Device submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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