

# North America and Europe Laser Processing Acousto-Optic Device Market by Manufacturers, Regions, Type and Application, Forecast to 2023

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## Abstracts

'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.'

Scope of the Report:

This report focuses on the Laser Processing Acousto-Optic Device in North America and Europe market, especially in United States, United Kingdom, Canada, Germany, France, Italy and Spain. This report categorizes the market based on manufacturers, countries/Regions, type and application.

Market Segment by Manufacturers, this report covers

Gooch & Housego

Brimrose

Harris

Coherent

Isomet

AA Opto Electronic

A.P.E Angewandte Physik

IntraAction Electronics

Panasonic

#### Market Segment by Countries, covering

United States

United Kingdom

Canada

Germany

France

Italy

Spain

#### Market Segment by Type, covers

Acousto-optic Modulator

Acousto-optic Deflector

Acousto-optic Tunable Filter

Others

Market Segment by Applications, can be divided into

CO2 Laser Processing Machine

Fiber Laser Processing Machine

YAG Processing Machine

Others

There are 19 Chapters to deeply display the North America and Europe Laser Processing Acousto-Optic Device market.

Chapter 1, to describe Laser Processing Acousto-Optic Device Introduction, product type and application, market overview, market analysis by countries, market opportunities, market risk, market driving force;

Chapter 2, to analyze the manufacturers of Laser Processing Acousto-Optic Device, with profile, main business, news, sales, price, revenue and market share in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the North America and Europe market by countries, covering United States, United Kingdom, Canada, France, Germany, Italy and Spain, with sales, price, revenue and market share of Laser Processing Acousto-Optic Device, for each country, from 2013 to 2018;

Chapter 5 and 6, to show the market by type and application, with sales, price, revenue,

market share and growth rate by type, application, from 2013 to 2018;

Chapter 7, 8, 9, 10, 11, 12 and 13 to analyze the key countries by manufacturers, Type and Application, covering 7 countries, with sales, revenue and market share by manufacturers, types and applications;

Chapter 14, Laser Processing Acousto-Optic Device market forecast, by countries, type and application, with sales, price, revenue and growth rate forecast, from 2018 to 2023;

Chapter 15, to analyze the manufacturing cost, key raw materials and manufacturing process, etc.

Chapter 16, to analyze the industrial chain, sourcing strategy and downstream end users (buyers);

Chapter 17, to describe sales channel, distributors, traders, dealers, etc.

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