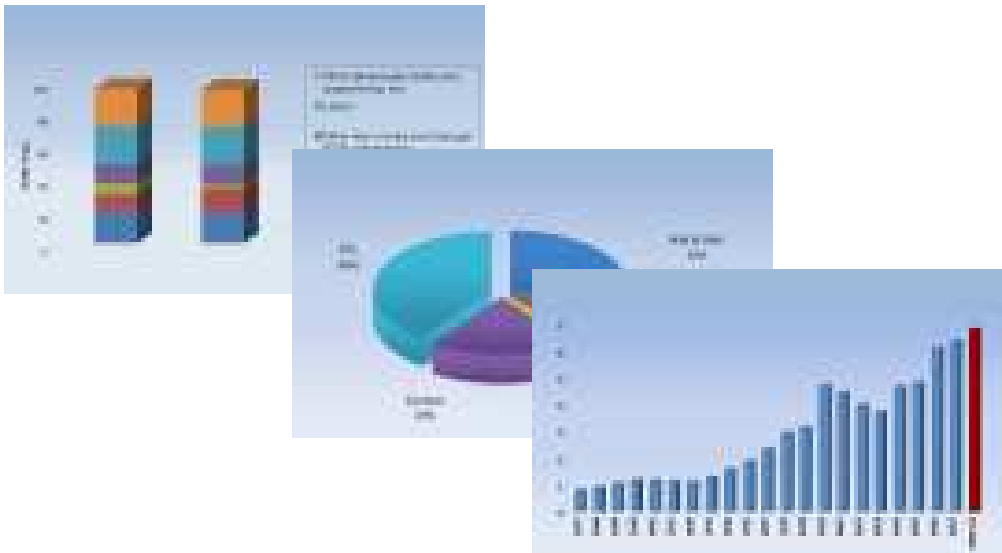


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FIBER LASER REPORT 2010



Information on the Report and Table of Contents

May 2010

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Details of the report

- Publishing date: April 2010
- Number of pages: 102
- Condensed information: presentation style with expanding text

Scope of the report

➤ **Application areas and fiber laser applications**

The report covers three main application areas for fiber lasers:

- Macro and fine processing / high power applications
- Micro materials processing
- Non materials processing applications

and numerous applications / potential applications within these areas.

➤ **Issues discussed for the applications**

For each of the applications, the decisive issues for the use of fiber lasers are discussed:

- Competing / established lasers
- Status of fiber laser use
- Advantages / disadvantages of fiber lasers
- Future prospects for the use of fiber lasers
- Liabilities of fiber lasers to be addressed

➤ **Market information**

Market potentials for fiber lasers are outlined for the application areas and major applications.

➤ **Fiber laser technology**

Major technology issues of future fiber lasers are discussed:

- photodarkening, pulsability,...
- technology limitations, solutions

Paragraph of this report	Issues discussed	Breakout Group topic
1 Summary		
2 Fiber laser markets	Present and future market potential	
3 Macro and fine materials processing, high power applications	Macro and fine processing applications, including cutting, welding, marking, etc.	✓
4 Micro materials processing	Solar cell, semiconductor processing	✓
5 Non materials processing applications	Applications in the following areas: medical, displays, defense	✓
6 Future FL, technology restrictions	Issues concerning reliability and time between service, photodarkening, technology limitations, pulse regimes	✓

The above table shows the issues covered and the respective paragraphs of the report. Please see the table of contents on the next pages for details. Note that paragraphs 3 to 6 are based on Breakout Group sessions of the EPIC workshop.

Background to the report & sources of information

The Optech Consulting Fiber Laser Report 2010 report is based on three major sources of information:

- **Expert interviews** conducted Optech Consulting.
- Optech Consulting **information on market volumes**.
- The **Fiber Laser Report 2010** updates the previous **Fiber Laser Report 2009**, published in January 2009.

Benefits of the report to the reader

- The report is a synthesis of contributions and opinions of a group of leading experts.
- The report answers major questions on present and future fiber laser applications and markets.
- All information is provided in presentation style with expanding text, making it easily accessible to the reader.

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