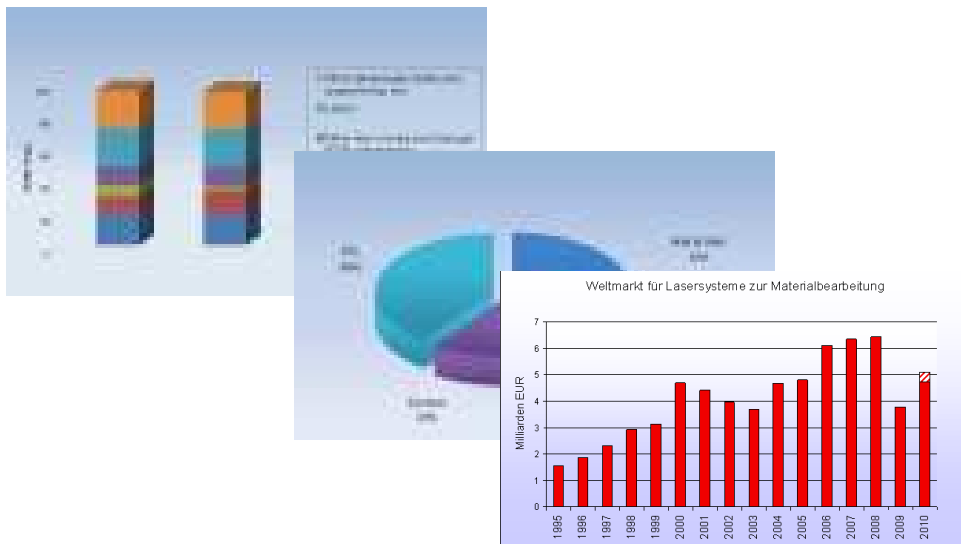


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FIBER LASER REPORT 2010



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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Table of Contents		Page
Table of contents, background to the report, definitions used		
Scope of the report, methodology		1
Definitions and acronyms		2
1. Summary		3
1.1	Major findings	4
1.2	Recent trends	5
1.3	Present FL applications – status	6
1.4	Present FL applications - competing lasers, FL advantages	7
1.5	Present world market for FL	9
1.6	Liabilities of FL10	
1.7	Market expectation for FL	10
1.8	Why are FL not used more?	12
1.9	Future FL	13
2. Markets for FL		14
2.1	World market for FL	15
2.2	Recent market trends	16
2.3	Revenues of major FL manufacturers	17
2.4	Markets for FL by application area	18
2.5	Present world market for lasers, market share of FL	19
2.6	Markets for laser systems in materials processing by application area and laser type	20
2.7	Markets for lasers in materials processing by type of laser	21
2.8	Laser materials processing – market growth	23
2.9	Market for lasers in therapeutic medicine	26
2.10	Market opportunities for FL, materials processing	27
2.11	Market opportunities for FL, other application areas	28

3. Macro and fine processing	29
3.1 Lasers and applications included	30
3.2 List of applications	32
3.3 Laser parameters needed and cost restrictions	33
3.4 Flat sheet cutting – market	34
3.5 Flat sheet cutting - FL and disk lasers vs CO ₂ lasers	35
3.6 Flat sheet cutting – 1 μm vs 10 μm, criteria	36
3.7 Flat sheet cutting – 1 μm vs 10 μm: investment cost	37
3.8 Flat sheet cutting – 1 μm vs 10 μm: processing performance	40
3.9 Flat sheet cutting – 1 μm vs 10 μm: cutting speed, quality	41
3.10 Flat sheet cutting – 1 μm vs 10 μm: assets and liabilities	42
3.11 Flat sheet cutting – 1 μm vs 10 μm: preference by type of user	43
3.12 Flat sheet cutting – 1μm vs 10 μm – conclusion	44
3.13 3D cutting with FL	45
3.14 High power welding with FL	46
3.15 Fine cutting and welding with FL	47
3.16 Marking	48
4. Micro materials processing applications	49
4.1 Applications for laser micro materials processing	50
4.2 Lasers used in micro materials processing	51
4.3 Present applications of FL in micro materials processing	52
4.4 Competitive position of FL in micro materials processing	53
4.5 Development goals for FL for micro materials processing	54
5. Non materials processing applications	55
5.1 Overview	56
5.1.1 Sources of information	57
5.1.2 Present status of FL application	58
5.1.3 Present limitations of FL, wavelengths	59
5.1.4 Parameters needed	60
5.2 Medical therapy and cosmetics	61
5.2.1 Laser applications in medical therapy and cosmetics – overview	62
5.2.2 Ophthalmology – laser applications	63
5.2.3 Ophthalmology – FL applications	64
5.2.4 Dermatology – laser applications and FL applications	65
5.2.5 Surgical applications – lasers used	66
5.2.6 Surgical applications – FL applications	67
5.2.7 Medical therapy and cosmetics - cost thresholds	68

5.2.8	Medical therapy and cosmetics - reliability requirements	69
5.3	Displays	
5.3.1	Types of laser displays	70
5.3.2	Display illumination sources: cost threshold, reliability	71
5.3.3	Displays: parameters needed	72
5.3.4	Professional projectors: advantages and disadvantages of lasers	73
5.3.5	Professional projectors: FL approaches	74
5.3.6	Professional projectors: conclusion on FL	75
5.4	Defense	76
5.4.1	Defense applications of lasers, overview	77
5.4.2	Lasers in range finding, LIDAR, wire detection	78
5.4.3	FL in range finding, LIDAR, wire detection: status, advantages	79
5.4.4	FL in range finding, LIDAR, wire detection: cost threshold	80
5.4.5	Laser designators and beam riding guidance	81
5.4.6	Flash imaging – parameters required and lasers used	82
5.4.7	Flash imaging – application of FL	83
5.4.8	Directed IR counter measure – parameters required and lasers used	84
5.4.9	Directed IR counter measure – requirements on FL	85
5.4.10	Directed IR counter measure – application of FL	86
5.4.11	Directed high energy weapon laser systems – parameters needed	87
5.4.12	Directed high energy weapon laser systems – FL applications	88
5.4.13	Defense: summary on status, parameters needed, cost threshold	89
5.4.14	Summary - reliability requirements	90
6.	Future FL – technology limitations	91
6.1	Overview	92
6.2	Pulsability - Limitations for pulsing FL	93
6.3	Limitations for short nanosecond pulses of FL	94
6.4	Solutions for short pulse FL	95
6.5	Solutions to pulse limitations: MOPAs	96
6.6	Solutions to short pulse limitations: short fibers	97
6.7	Solutions to short pulse limitations: photonic fibers	98
6.8	Solutions to short pulse limitations: picosecond lasers	99
6.9	FL limitations: photodarkening	100
6.10	FL limitations: diode lifetime	101
6.11	New fiber materials	102