

OZ Optics Limited

Corporate Overview

OZ Optics Limited - China

May 2016

Agenda

- Company Profile
- OZ Optics Canada
- OZ Optics Turkey
- OZ Optics China
- Manufacturing Strategy
- Industry Standards
- Core Competencies
- Quality Policy
- Competitive Advantage

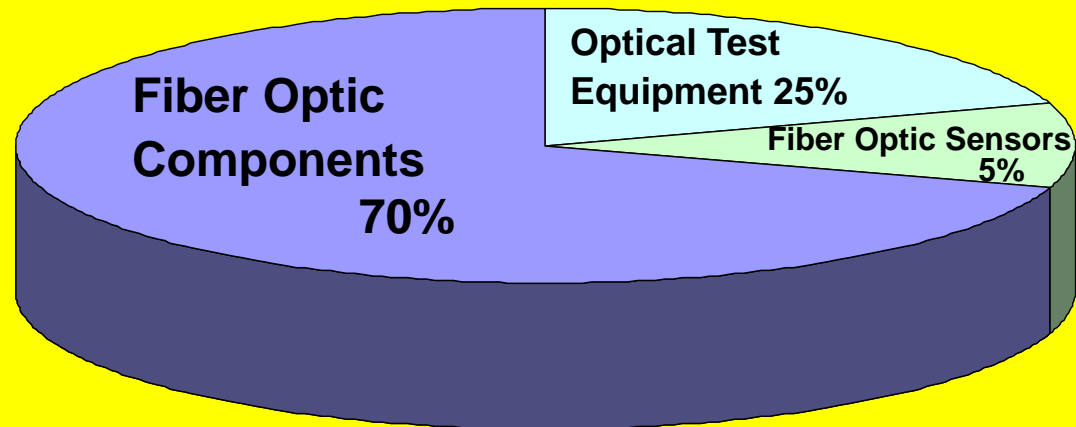
Company Profile

- Company founded in 1985;
- Corporate headquarters located in Ottawa, Canada;
- Manufacturing facility in Ottawa/Canada, Izmir/Turkey, and Jiaxing/China
- Seven Product Groups: **Laser-to-Fiber Delivery Systems, High Power Fiber Optic Components, Polarization Maintaining Products, Attenuators, Opto-Electronic Packaging, Test Equipment, Fiber Optic Sensor Systems**
- Sales offices in Canada, USA, Turkey and China



Company Profile

➤ Three Product Groups:



➤ Over 1,000 products

➤ Leading Edge R&D

OZ Optics Products



OZ Optics

shop.ozoptics.com
www.ozoptics.com



Global Leader in Fiber Optic Products since 1985

Polarization Maintaining Fiber Optic Components

Patent Numbers: USA 7058275, 7095931, 7295731, China 1672073



OZ Optics Ltd.
Headquarters, Canada
Tel: +1-800-361-5415
Tel: +1-613-831-0981
Fax: +1-613-816-5069
sales@ozoptics.com

OZ Optics USA
California Division
Tel: +1-510-770-1268
Fax: +1-510-770-1726
qu@ozoptics.com



OZ Optics Turkey
Tel: +90-232-252-3531
Fax: +90-232-252-3498
ysezerman@ozoptics.com.tr



OZ Optics China Ltd.
Tel: +86-573-8222-3078
Fax: +86-573-8222-3012
sales@ozoptics.com.cn



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High Power Fiber Optic Components

Patent Numbers: Canada 2494133, USA 7058275, 7095931, 7295731, China 1672073



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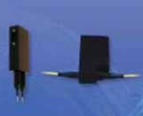
Fiber Optic Attenuators for SM, PM, and MM Fibers

Digital Variable Attenuators



- 0.0dB to 30.0dB Attenuation Range
- 0.001 to 1000 dBm Power Range
- 1000mWatt

Electrically Controlled Variable Attenuators



- 0.0dB to 30.0dB Attenuation Range
- Up to 2 Watts Power Handling
- 1000mWatt

MEMS Variable Attenuators



- 0.0dB to 30.0dB Attenuation Range
- Small Size, Low Cost, Low Power Consumption
- 1000mWatt

SM / PM / MM Fiber Pigtailed Inline Variable Attenuators



- 0.0dB to 30.0dB Attenuation Range
- 0.001 to 1000 dBm Power Range
- 1000mWatt

Single/Multi Channel Miniature Variable Attenuators



- Compact, Low Noise, High Precision
- 1000mWatt
- 1000mWatt

Reflective Style Variable Attenuators



- 0.0dB to 30.0dB Attenuation Range
- 0.001 to 1000 dBm Power Range
- 1000mWatt

Air Gap Variable Attenuators



- 0.0dB to 30.0dB Attenuation Range
- 0.001 to 1000 dBm Power Range
- 1000mWatt

Plug Type Fixed Attenuators



- 0.0dB to 30.0dB Attenuation Range
- 0.001 to 1000 dBm Power Range
- 1000mWatt

Attenuating Fiber Patchcords



- 0.0dB to 30.0dB Attenuation Range
- 0.001 to 1000 dBm Power Range
- 1000mWatt



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Tel: +1-613-831-0961
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Tel: +1-510-770-1268
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Fax: +1-510-770-1268
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Tel: +90-232-252-3531
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Global Leader in Fiber Optic Products since 1985

Laser & Laser Diode to Fiber Delivery Systems

Laser to Fiber Couplers



Bare Fiber Adaptors with Magnetic Clips



Bulkhead Receptacles



Pigtail/Receptacle Style High/Low Power Collimators/Focusers



High/Low Power Patchcords



WDM/RGB Combiners



OCT Modules and 2 micron Components



OEM Laser Diode to Fiber Couplers



Turnkey, Ultra Stable Laser Modules



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Global Leader in Fiber Optic Products since 1985

Fiber Optic Components for Optoelectronic Packaging

Hermetically Sealable Patchcords with Glass or Metal Solder



Single Channel



Multi Channel



Metalized Fibers



PM/SM/MM Fiber Pigtailed V-Groove Arrays



Polarization Measurement System for V-Grooves



Tapered / Lensed Fiber Polished / Laser Shaped



Glass Solder Preforms



Fiber Optic Ferrules



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Fiber Optic Test Equipment



Polarization Extinction Ratio Measurement Systems



Power Meters with Smart Detector Heads



Broadband Digital Variable Attenuators



Optical Fiber Length Meters



High Power Visual Fault Locators



Fiber Optic Stable Sources



Inline Optical Power Monitors/Meters



Laser Diode Sources Single/Multiwavelength



Fiber Optic Smart Patchcords



Fiber Optic Fault Finders



OZ Optics Ltd.
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Product Innovation



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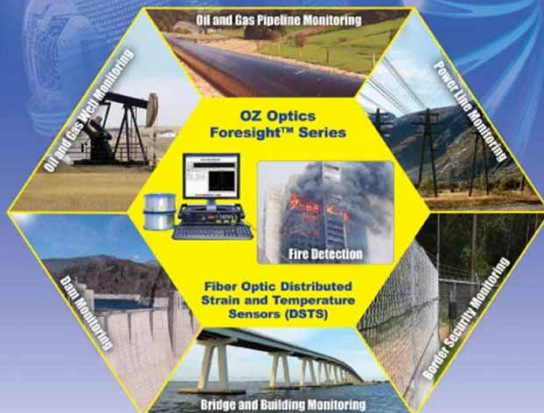


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Fiber Optic Distributed Strain and Temperature Sensors

USA Patent Numbers: 7499151, 7599047

- BOTDA only, BOTDR only, or both BOTDA and BOTDR modules in one unit
- Simultaneous measurement of strain and temperature
- Fast, dynamic measurement of strain and/or temperature up to 100 km sensing range
- Uses standard telecommunication fiber to minimize costs



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OZ Optics USA
California Division
Tel: +1-510-770-1268
Tel: +1-510-770-1726
qsu@ozoptics.com



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Tel: +90-232-252-3531
Fax: +90-232-252-3498
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Global Leader in Fiber Optic Products since 1985

Fiber Optic Fault Finder for Optical Network Safeguard™

- Monitors and reports network health status in real time, 24 hours/day, 365 days/year
- Lowers network operating and maintenance expenses
- Reduces revenue loss due to fiber plant outages
- User friendly interface via various wireless interfaces (Wi-Fi, GPRS), USB, or RS-232
- Reports fault location, giving GPS coordinates with time stamp
- Early alert and outage reports via cellular phone, email, IM, SMS, or text messaging



OZ Guard Automated Test Solution



Remote Monitoring a WDM Network



Remotely Accessible/Wireless Fault Finders



GPS Locator



OZ Optics Ltd.
Headquarters, Canada
Tel: +1-800-361-5415
Tel: +1-613-831-0981
Fax: +1-613-836-5089
sales@ozoptics.com

OZ Optics USA
California Division
Tel: +1-510-770-1268
Tel: +1-510-770-1726
qsu@ozoptics.com



OZ Optics Turkey
Tel: +90-232-252-3531
Fax: +90-232-252-3498
yzezerman@ozoptics.com.tr



OZ Optics China Ltd.
Tel: +86-573-8222-3078
Fax: +86-573-8222-3012
sales@ozoptics.com.cn



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Product Innovation


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2 micron Fiber Optic Components for PM and SM Fibers



Fiber Optic Patchcords



Fused Couplers / Taps /
Beam Splitters / Combiners



Fiber Pigtailed
Laser Diode Sources



Pigtail / Receptacle Style
Collimators / Focusers



Polarizers



Manual / Electrically Controlled
Variable Attenuators



Isolators



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Headquarters, Canada
Tel: +1-800-361-5415
Tel: +1-613-831-0981
Fax: +1-613-836-5089
sales@ozoptics.com



OZ Optics USA
California Division
Tel: +1-510-770-1268
Tel: +1-510-770-1726
qru@ozoptics.com



OZ Optics Turkey
Tel: +90-232-252-3531
Fax: +90-232-252-3498
ysezerman@ozoptics.com.tr



OZ Optics China Ltd.
Tel: +86-573-8222-3078
Fax: +86-573-8222-3012
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Fiber Optic Products for OCT Applications



OCT Modules



Manual / Electrically Controlled
Broadband Variable Attenuators



Manual / Electrically Controlled
Fiber Optic Delay Lines



Manual / Electrically Controlled
Polarization Controllers



Fiber Pigtailed
Broadband SLED Sources



Fiber Collimators / Focusers



Broadband Fused Couplers



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Fax: +1-613-836-5089
sales@ozoptics.com



OZ Optics USA
California Division
Tel: +1-510-770-1268
Tel: +1-510-770-1726
qru@ozoptics.com



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Fax: +90-232-252-3498
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Company Profile

Over 470 employees worldwide:

- 260 in Ottawa and US
- 50 in Turkey
- 160 in China

OZ Canada



OZ China



OZ Turkey



Company Profile

OZ Optics is lead by an experienced team:

- **Ömür Sezerman, Chairman, President & CEO**
 - Founder and CEO since inception (31 years)
- **Zahide Sezerman, VP of Human Resources**
 - With OZ Optics since inception (31 years)
- **Garland Best, VP of Components Division**
 - 24 years at OZ Optics
- **Gordon Youle, VP of Test Equipment Division**
 - 17 years at OZ Optics
- **Martin Powell, Operation Manager**
 - 12 years at OZ Optics
- **Sarah Miller, Controller**
 - 3 years at OZ Optics
- **Metin Sezerman, General Manager of OZ Turkey**
 - 15 years at OZ Optics
- **Bing Li, General Manager of OZ Optics China**
 - 12 years at OZ Optics

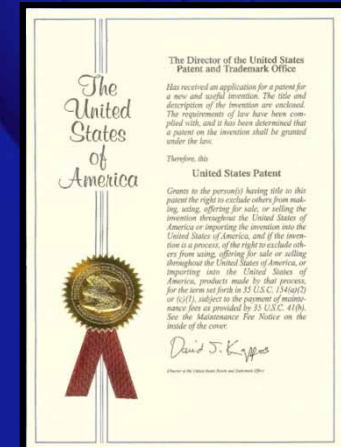
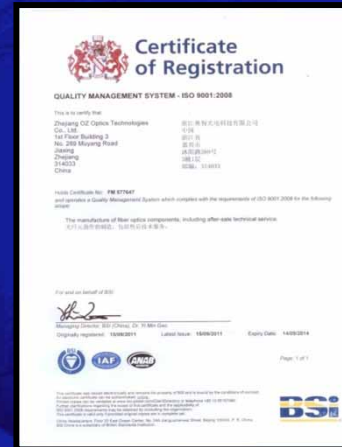
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Company Profile

- ISO9001:2008 certified
- Broad patent portfolio
- Advanced proprietary processing technology



Company Profile

➤ *Using our strong direct sales and distributors, we address the following markets:*



Company Profile

➤ *OZ Optics has resellers and distributors in over 30 Countries & Regions and over 10,000 customers globally:*



Australia



France



Japan



Spain



Austria



Germany



Netherlands



Switzerland



Belgium



Greece



Luxembourg



Sweden



Brazil



Hong Kong



Norway



Taiwan



Canada



India



Poland



Thailand



China



Ireland



Portugal



Turkey



Czech Rep.



Israel



Singapore



United Kingdom



Denmark



Italy



South Korea



United States

In-House Production Capabilities

- Experienced and well-trained staff in following fields:
 - optical, mechanical, electronics & software

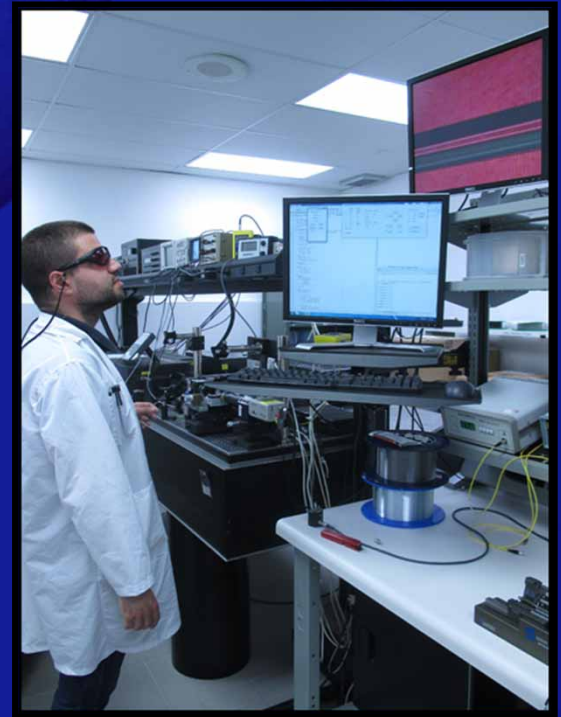
CNC Machine Shop



AR Coating



Femtosecond Laser Lab



Clean Room



Laser Conditioning/Cleaving



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Branch Network

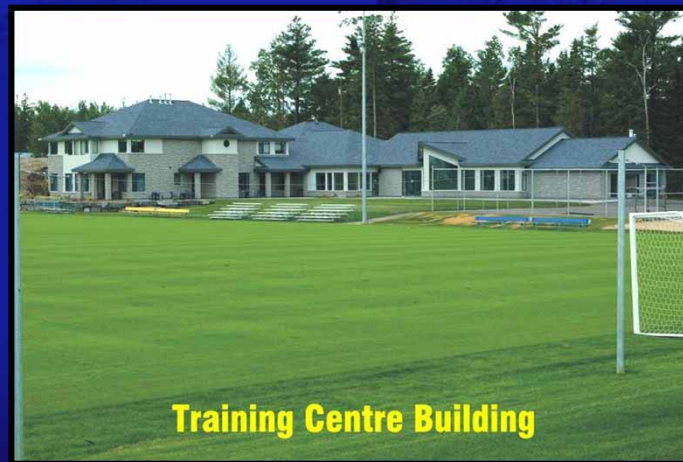


Facility – Ottawa Headquarters

- 60,000 sq ft. – Manufacturing and R&D Facilities
- 15,000 sq ft. – Admin, Sales and Marketing
- 15,000 sq ft. – Training and Fitness Facility
- R&D, Product Design, Engineering, Final Assembly & QA



Facility – Ottawa Headquarters



OZ Optics – Turkey Factory

- Operational since 2000
- 33,000 sq ft. Manufacturing Facility
- Located in Free Trade Zone
- Low Tax Rates
- Sub Component Parts Manufacturing
- Cost Effective Manufacturing
- High Quality Labor



OZ Optics China

- Operational since 2009
- Wholly Foreign Owned Enterprise
- Subcomponent Parts Manufacturing
- Cost Effective Manufacturing
- High Quality Labor
- Extensive Training
(3-6 months in OZ Canada)



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OZ China Facility

Jiaxing, China

- Located in Economic Development Zone
- 500 sq meters – Admin, Sales and Marketing
- 1500 sq meters – Manufacturing Area
 - 100 sq meters – Class 10,000 Clean Room
 - 100 sq meters – ESD Working Area



OZ Optics – China Factory

Jiaxing, China

- Cost Effective Manufacturing
- High Quality Labor
- Low Cost Procurement
- Supply Chain Integration



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Why We Chose Jiaxing

- Yangtze River Delta
- Location Advantages
- Customer Base & Supply Chain Integration
- Investment Incentives
- High Quality Labor
- Beautiful Scenery & Pleasant Climate



OZ Optics China

- NPI & Production Line Setup
- Work Instructions / Process Control Plan
- Operator Training & Assessment
- Trial productions commenced in December, 2010
- On-site training by OZ CND Senior Engineers
- Site qualification by OEM customers



OZ Optics China

- Received ISO 9001:2008 Certificate in August, 2011

bsi. 
By Royal Charter

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that: Zhejiang OZ Optics Technologies Co., Ltd.
1st Floor Building 3
No. 289 Muyang Road
Jiaxing
Zhejiang
314033
China

浙江奥智光电科技有限公司 33752716-8
中国
浙江省
嘉兴市
沐阳路289号
3幢1层
邮编: 314033

Holds Certificate No: **FM 577647**

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

The manufacture of fiber optics components, including after-sale technical service.
光纤元器件的制造, 包括售后服务。

For and on behalf of BSI: 
Gary Fenton, Global Assurance Director

Originally registered: 15/09/2011 Latest Issue: 03/07/2014 Expiry Date: 13/09/2017

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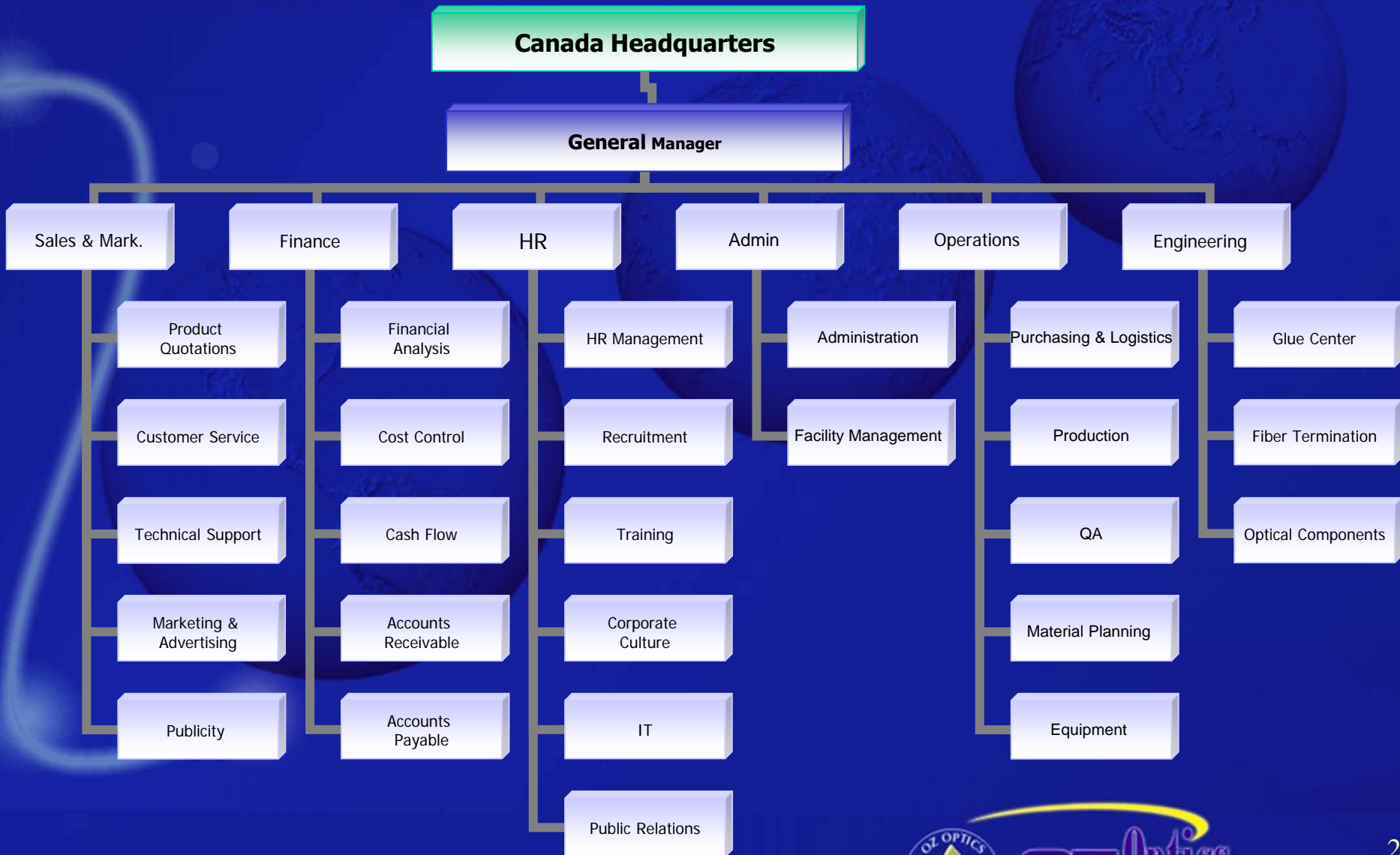
  

...making excellence a habit.

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.
An electronic certificate can be authenticated online.
Printed copies can be validated at www.bsigroup.com/bsi/Directory or telephone +44 (0) 800 900 900, as well as at the BSI Group, the official website of CHINA - Certification and Accreditation Administration of the People's Republic of China.
Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by contacting the organization.
This certificate is valid only if provided original copies are in complete use.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlton, Wokingham RG40 3TA, UK. Tel: +44 (0) 1344 393939.
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W6 7AL, UK.
BSI Management Systems Certified (Beijing) Co., Ltd.
Rm. 2018 East Ocean Center, No. 248 Jiaqiuninshui Street, Beijing 100004, P.R. China Tel: +86 10 8527 1000
A Member of the BSI Group of Companies.

OZ Optics China – Organizational Chart



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OZ Optics China – Production Lines

Current Production Lines:

1. Fiber Assemblies – SM, MM, PM
and High Power Patchcords

Capacity: 10,000+ pcs / month



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OZ Optics China – Production Lines

Current Production Lines:

2. Hermetic Assemblies – multi-channel, V-Groove, Glass or Metal Soldering

Capacity: 1,000+ pcs / month



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OZ Optics China – Production Lines

Current Production Lines:

3. Laser Diode Packaging

Capacity: 1,000+ pcs / month



OZ Optics China – Production Lines

Current Production Lines:

4. Laser to Fiber Delivery System
– couplers / collimators / focusers

Capacity: 1,000+ pcs / month



OZ Optics China – Production Lines

Current Production Lines:

5. PM Components

- Polarization Controller
- PM Splitter/Combiner
- Polarizer
- PM Switch

Capacity: 500+ pcs/ month



6. Attenuators

- Variable Attenuators
- Fiber Pigtailed
- Standard & Miniature Housing

Capacity: 1000+ pcs / month

OZ Optics China – Production Lines

Production Line Currently Under Construction:

1. High Power Isolators:



OZ Optics China – Supporting Dept.

➤ Glue / Clean Center

- Strict control of all glue used in production
- All epoxy mixing records and samples are stored for traceability
- Metal parts are cleaned using internal cleaning recipe by Clean Center before issued to production



➤ Equipment Department:

- Maintenance and Calibration
- Equipment usage record

OZ Optics China – Quality Control

- Commitment to quality and continuous improvement
- All products are manufactured under strict quality control
 - incoming / in-process / out-going



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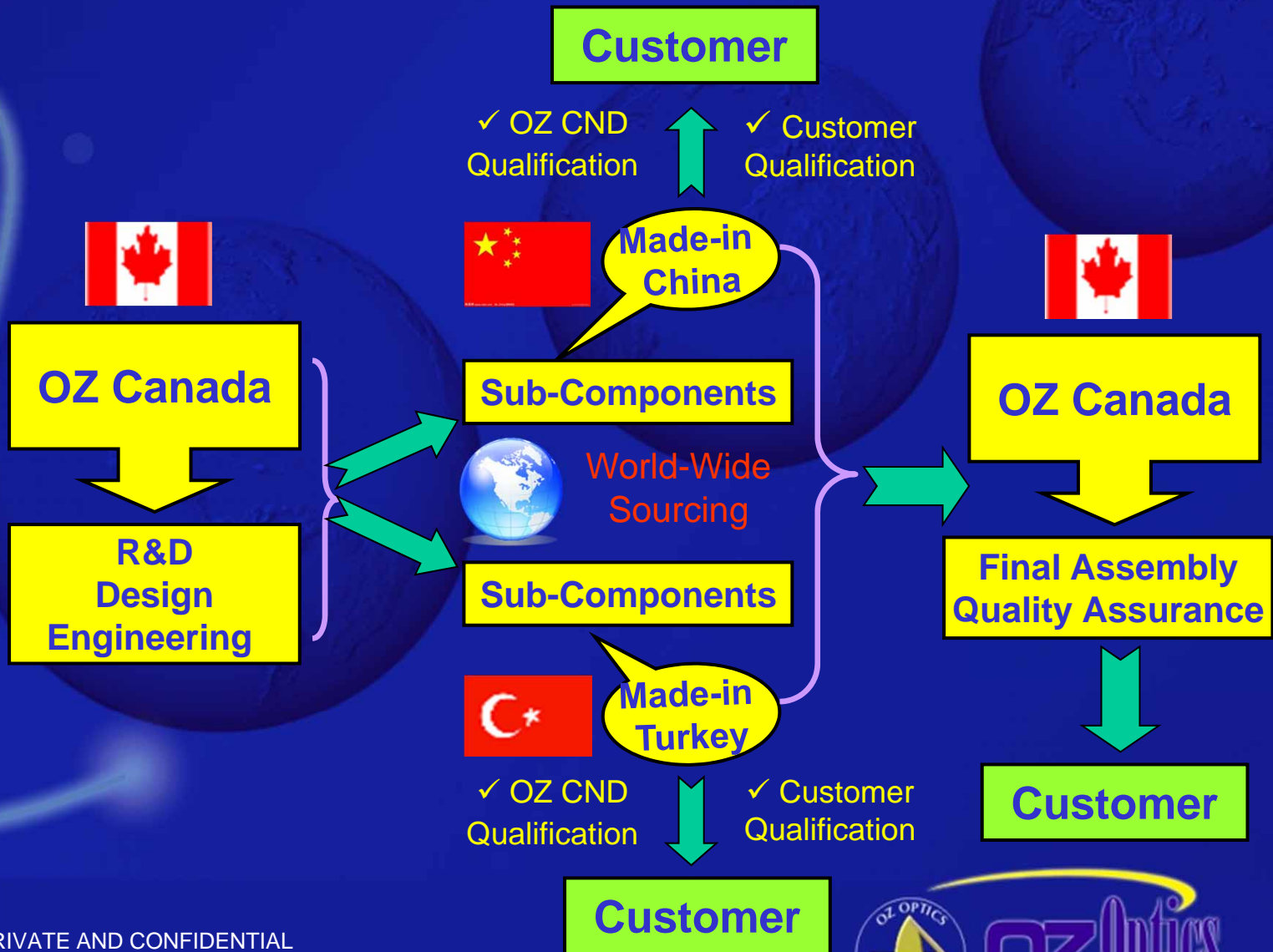
We Guarantee:

- Exceptional Quality
- Superior Service
- On-Time Delivery
- Competitive Price



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Manufacturing Strategy



Industry Standards

All products manufactured are in strict accordance with international industry standards:

➤ *Telecordia Compliance*



➤ *CE Compliance*



➤ *RoHS Compliance*



➤ *ISO 9001:2008 Certified (China, Turkey and Canada)*

➤ *Controlled Goods Directorate Registered*

Core Competencies

- Pioneer in Polarization Maintaining (PM) Components
- Leader in Wavelength Flattened, High Power & Low PDL Components
- Leader in High Power Fiber Optic Delivery Systems
- Custom Test Equipment, Including Polarization Test Equipment and FTTH Equipment
- Widest Range in Attenuator Product Offering
- Fiber Optic Distributed Strain and Temperature Sensors
- Complete product line for OCT applications & 2 Micron

Leading Technology

- **High Power Isolators**
 - power handling > 50W
 - low loss, low cost turnkey solution



High Power Free Space and Pigtailed Isolators

- **Pioneer in Polarization Maintaining (PM) Components**
 - wavelength flattened
 - high power & low PDL
 - PM test equipment



Polarization Maintaining Patchcords

Distributed Strain and Temperature Sensors



- **Fiber Optic Sensor**
 - fast and simultaneous measurement of strain & temp
 - large structure health monitoring

High Power Collimators/Focusers



- **Leader in High Power Fiber Optic Deliver Systems**
 - specializes in custom design



OUR VISION

- Be the preferred Supplier of choice
- Capture and expand market share
- Maximize shareholder value

OUR MISSION

- To become the leading provider of innovative optical products to telecom and non-telecom sectors

OUR CORE VALUES

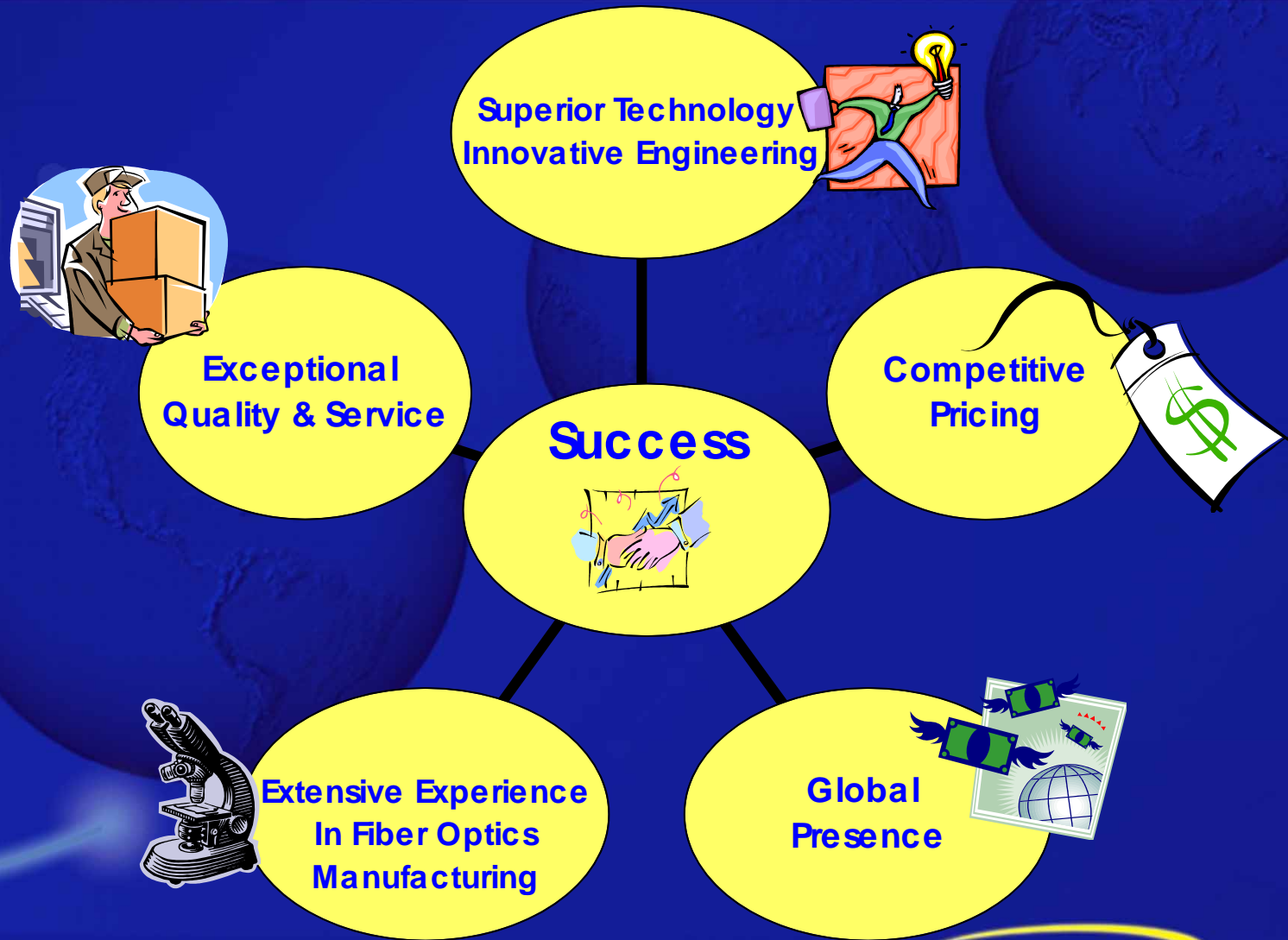
- Leadership
- Teamwork
- Boldness
- Commitment
- Innovation
- Rewards

OUR QUALITY POLICY

- Provide our Customers with a competitive advantage, leveraging performance, price and delivery, through a continuous process of Quality advancement in all areas of our Company
- Communicate effectively to our Customers, Suppliers and Shareholders our commitment to Quality and continuous improvement
- Promote opportunities of professional development for all members of our Company through education, training and personal challenge

Ömür Sezerman
President

Competitive Advantage



OZ Optics China

Your solution provider for existing and next generation fiber optic components and test equipment

Please Contact Our Sales Dept:

Tel: +86-573 8222 3078 x 8888、 8040

Email: sales@ozoptics.com.cn

OZ Optics China

Thank You for Choosing OZ!

