

# Glossary

## A

### Angiography

Visualisation of blood vessels by injection of an X-ray contrast medium and the subsequent production of rapid series of programmed recordings (angiograms).

### AoT

Optical technology training centre.

### Automotive

Name given to a market segment by LINOS AG; it focusses on the development and production of optical components and systems that are primarily needed for solutions in the automotive field (such as head-up displays).

## B

### Balloon dilatation

Technique for enlarging stenoses (constrictions) in blood vessels and duct systems. The constriction is enlarged with the help of a high-pressure balloon catheter, which is pumped up at high pressure (air or water with a contrast medium).

### Biochip

A substrate material with dimensions in the millimetre range for the examination of compounds of biochemical substances.

### Biochip scanner

Optical instrument for analysing compounds of biochemical substances on biochips.

### Biophotonics

All the optical processes that are used in such modern bioscientific processes as high-throughput screening, gene sequencing and the deployment of biochips.

### Biotechnology

Name given to a market segment by LINOS AG; this market segment is responsible for the development and production of opto-mechanical systems for analysing biomolecules and cell constituents for research purposes.

### BMBF

German Ministry of Education and Research.

### Book-to-bill ratio

Ratio of orders received to orders billed.

### Broadband non-reflecting coating

Surface coating to avoid light reflection in a large wavelength range.

### Business unit

Unit in the LINOS AG sales organisation, which is responsible for product development, project management, commercial processing and customer relations, depending on the structure of the individual LINOS AG companies.

## C

### C-shaped unit

Specially designed X-ray diagnostics unit, in which the X-ray source and the image production unit are located at the ends of a C-shaped structure.

### Cardiology

The branch of internal medicine concerned with the diagnosis and treatment of heart and circulation disorders.

### Coating

High-performance optical coating for optical components and systems.

### Coating machine

Production machine on which high-performance optical coatings are applied in clean room conditions.

### Corporate governance

Code of conduct (guidelines) for good company management,

known internationally as rules for corporate behaviour too. Corporate governance describes all the general legal and institutional conditions by means of which influence can be exerted on company management and control either directly or indirectly.

## D

### DAX

German share index.

### Defense

Name given to a market segment by LINOS AG; defense technology.

### Dental technology

Name given to a market segment by LINOS AG; optical processes for dental technology.

### Dermatology

Branch of medicine concerned with skin disorders; name given to a market segment by LINOS AG; it concentrates on the development and production of systems for the analysis of skin cancer (e.g. DermoGenius®).

### DermoGenius®

Computer-based image analysis system for diagnostics support in the early detection of skin cancer.

### Digital printing / digital printing technology

Printing process based on digital data using laser light.

### Diode laser

Laser based on semiconductor material.

### DVFA

German Association for Financial Analysis and Asset Management (DVFA).

## E

### EBIT

Earnings before interest and taxes.

### EBITA

Earnings before interest, taxes and amortisation.

### EBITDA

Earnings before interest, taxes, depreciation and amortisation.

### Electro-optical modulator system / electro-optical modulators

Modulation system for laser light based on electro-optical crystals.

### Enabling technology

A key technology.

## F

### Faraday isolators

Component in optical systems.

### Fibre laser

Special diode laser. Pumped solid-state laser. It emits visible laser light directly from the fibre by using innovative fibre technology.

## G

### Genetic and protein analysis

Examination of biochemical substances, the genome and the molecules formed from the genes (proteins).

### Genome

The total genetic material of an organism.

### Genomics

In a similar way to proteomics, genomics aims to develop a more precise understanding of the connection between genes and illnesses. Genomics focusses particularly on the characterisation and sequencing of the genome. Genomics findings are used, for example, in medical research and trials.

### GRIN lens

Optical lens made from special glass with a varying refractive index (gradient index lens).

**H****HALO lens**

High-aperture laser lens.

**Health Care & Life Sciences**

LINOS AG business division.

**High-performance fibre-optic lasers**

Laser system based on an optical fibre as the laser material.

**I****IFRS**

International Financial Reporting System.

**Image enhancement system for X-ray equipment**

An optoelectronic system for processing X-ray pictures digitally, on film or with a TV camera.

**Impairment test**

Review of possible reductions in the value of all assets on the basis of internal and external information on the balance sheet date.

**Industrial Manufacturing**

LINOS AG business division.

**Information Technology & Communications**

LINOS AG business division.

**Integrated optical modulator**

Chip based on a crystalline material, which is provided with waveguide structures for light via photolithographic processes. A compact unit that can modulate light (phase and amplitude) is produced by linking optical fibres at the beginning and end.

**Interferometer**

Optical measuring instrument based on light interference.

**Intervention**

Therapeutic or preventive medical action.

**Intraoral camera**

Camera for taking pictures intra-orally (inside the mouth).

**IPO**

Initial public offering.

**K****Key or enabling technology**

Technical know-how that creates the necessary basis for new developments and products in many different market segments and technologies.

**L****Laser**

Abbreviation for light amplification by stimulated emission of radiation.

**Laser beam expander**

Beam expansion system for changing the diameter of the laser beam.

**Laser systems / laser material processing**

Name given to a market segment by LINOS AG.

**Lithotripsy**

The shattering of stones (endoscopically, chemically, shock waves applied externally). Process for the non-operative destruction of gall, bladder or kidney stones.

**M****Machine vision**

Name given to a market segment by LINOS AG; the market segment involves the application of optical processes in the image recognition field.

**Media technology**

Name given to a business unit by LINOS AG; the general term used for printing and display technologies.

**Medical technology**

Name given to a business unit by LINOS AG, which includes the market segments X-ray imaging, surgery systems and dermatology.

**MeVis-C series**

Precision lenses with a C-mount connection for CCD cameras.

**Microoptic sub-assembly**

System consisting of miniaturised optical components.

**Microprocessors**

Semiconductor components.

**Modulation frequency**

The frequency that is actually to be transmitted, with which the carrier frequency is modulated in frequency modulation - i.e. the video frequency in image transmission.

**Molecular diagnostics**

Name given to a market segment by LINOS AG; this market segment is responsible for the development and production of opto-mechatronic systems for diagnosing clinically relevant changes to DNA, RNA, proteins and metabolic processes.

**MRF technology**

Innovative process for finishing precision optical surfaces (magnetorheological finishing).

**N****Nanometre**

1 millionth of a millimetre.

**NYSE**

New York Stock Exchange.

**O****OEM**

Original equipment manufacturer.

**OIDA**

Optoelectronics Industrial Development Association.

**One-stop shop**

The customer receives everything from a single source, for example optics, coating, mechanics and assembly.

**Optical metrology & inspection**

Name given to a market segment by LINOS AG.

**Opto-mechatronic systems**

Systems that consist of a combination of optical, mechanical and electronic components.

**P****Patch clamp technology**

In patch clamp technology, a glass pipette is filled with an electrolyte solution and is carefully applied to the surface of a cell. Flows through individual channels that are located in the patch directly underneath the end of the pipette can be measured in this way.

**Phase modulator**

Electro-optical modulator for modulating the phase position of a laser beam.

**Photo and lab technology**

Name given to a market segment by LINOS AG; photo and camera field.

**Photo finishing**

Process for the reproduction of analog or digital photos on photo paper.

**Photonics**

All the optical technologies for the production, amplification, forming, transmission, measurement and utilisation of light.

**Positioning systems**

Precision mechanical components for positioning objects.

**Prime Standard**

Deutsche Börse listing segment with special disclosure and accounting requirements. Companies listed in the Prime Standard (LINOS AG, for example) meet international transparency standards that go beyond the demands of the General Standard.

**Printing industry**

Name given to a market segment by LINOS AG; this market segment concentrates on the development, production and sale of high-quality lenses and opto-mechatronic systems for the printing industry.

**Print-on-demand**

Print-on-demand means the inexpensive production of recurring documentation by the digital printing process as and when required (generally between 50 and 1,000 copies).

**Productronics**

Name given to a market segment by LINOS AG; this market segment concentrates on the development, production and sale of high-quality lenses and opto-mechatronic systems that are used in the production of electronic components.

**Proteomics**

In a similar way to genomics, proteomics aims to develop a more precise understanding of the connection between genes and illnesses. Proteomics focusses on the systematic compilation of protein profiles. Since genetic information is implemented by proteins, proteomics provides essential data for the development of new medical drugs.

**R****Rapid prototyping**

Fast production of prototypes.

**Real-time PCR****(PCR = polymerase chain reaction)**

Process with which a single segment of DNA can be induced to replicate millions of times within a few hours. The aim is to obtain a large enough quantity for the diagnostic identification of hereditary diseases, cancer cells or viruses.

**Real-time thermocycler**

Unit for the specific reproduction of DNA.

**Research and laboratories**

Name given to a business unit by LINOS AG.

**Research labs**

Name given to a market segment by LINOS AG.

**RGB range**

Red - green - blue range.

**RTP Pockels cell**

A special arrangement of two RTP crystals in a housing. High voltage that can modulate the light passing through via a change in the refractive index of the crystals can be applied to the unit via contacts and electrodes.

**S****Scanner**

Optomechanical system for the spatial control and deflection of laser light.

**Semiconductors**

Crystalline or amorphous solids (made from an organic material), the electrical conductivity of which is higher than that of isolators and lower than that of metals.

**Semiconductor technology**

Name given to a market segment by LINOS AG.

**Shareholders' equity ratio**

Indicator in capital structure analysis that represents the proportion of total capital accounted for by shareholders' equity (shareholders' equity divided by the balance sheet total).

**Special coating**

Coating with special technical properties.

**Strategic business & technology**

Name given to a market segment by LINOS AG; specially for technology areas and markets in the process of development or at the growing stage that have high medium-term and long-term potential.

**Supply network**

Comprehensive logistics concept strongly oriented towards the customer.

**Surgery systems**

Name given to a market segment by LINOS AG; development and production of optical systems for surgical medicine, e.g. endoscopy.

**Systems technology**

Name given to a business unit by LINOS AG; coverage of the defense and automotive market segments.

**T****Tax assets**

The amounts in taxes on income that are probably reimbursable in future periods and result from temporary differences and/or tax profits and losses carried forward that have not yet been used are capitalised as tax assets.

**TecDax**

Stock exchange index that was introduced on March 24, 2003. It is the successor to the Nemax50. The TecDax reflects the development in the value of the 30 largest technology shares in the Prime Standard below the DAX.

**Telecommunications**

Name given to a market segment by LINOS AG.

**U****UV range**

Ultraviolet range; short-wave range of the light spectrum.

**W****Wafer stepper**

Machine for the production of semiconductor components.

**WinLens**

Software program developed by LINOS for the assessment and calculation of optical systems.

**X****X-ray imaging**

Name given to a market segment by LINOS AG; systems for X-ray diagnostics and intervention.