



COOPERATION OFFER

GENERAL DESCRIPTION

Title: Fiber Optical Sensing

Summary

This technology offer is from a Swedish SME which focuses on modules, subsystems and systems based on Fiber Bragg Gratings (FBGs) for Telecommunication and Fiber Optical Sensing. The company wants to explore possible cooperation with a primary interest regarding the Fiber Optical Sensing field.

Description

The company is headquartered in Kista, Sweden. All main functions including manufacturing and research and development are conducted in Kista. Sales offices are located in Sweden, Asia and the US. The company is certified in accordance with SSEN ISO 9001:2008.

Technology and IPR

The company's core technology, design and manufacturing of complex Fiber Bragg Gratings (FBGs), was developed at the research institute Acreo (presently RISE Acreo). In 1997 the technology was spun-off and during the following 20 year period 61 patents have been granted.

Products and systems

The product offering is divided into three different areas: Fiber Optical Sensor Systems (FOSSs), Dispersion Compensation Modules (DCMs) and Optical Layer Monitors (OLMs). The offering within FOSSs include: interrogators, sensors, cabling, software, installation and commissioning.

Production process and capacity

The company uses a proprietary method to produce FBGs. The principle is a direct write approach instead of using phase masks (similar to the lithography process in semiconductor processing).

Direct writing enables longer and more advanced FBG designs. To date approximately 2,500 – 3,500 complex FBGs, usually ranging from 1 meter to 10 meters are produced per year. In existing premises, capacity could be extended to approximately 8,000 FBGs per year. All FBG based products (DCMs, OLMs, sensors and interrogators) are designed and produced at the premises in Kista.

Customers

Within telecommunication The company is providing products and systems to the majority of the Tier-1 system vendors, including (Huawei, NEC, Fujitsu, Nokia (former Alcatel-Lucent), Infinera, Coriant (former Nokia Siemens Networks and Tellabs), Tyco and Ciena. Within FOSSs the company is providing products and systems to blue chip companies like: ABB, SAAB

Advantages and Innovations



The main advantages of the company's technology are its flexibility and the capability of fabricating very advanced FBGs with exceptional control. The technology is especially well suited to research organisations, willing to get the best possible devices allowing for the production of ground-breaking results and demonstrators.

Current Stage of Development*

- | | |
|---|--|
| <input type="checkbox"/> Under development /laboratory tested | <input type="checkbox"/> Field tested / evaluated |
| <input type="checkbox"/> Available for demonstration | <input type="checkbox"/> Prototype available for demonstration |
| <input checked="" type="checkbox"/> Already on the market | <input type="checkbox"/> Concept stage |

Comments Regarding Stage of Development:

Intellectual Property Rights Status*:

- | | |
|--|--|
| <input type="checkbox"/> Patent(s) applied for but not yet granted | <input checked="" type="checkbox"/> Secret know-how |
| <input checked="" type="checkbox"/> Granted patents | <input type="checkbox"/> Exclusive rights |
| <input checked="" type="checkbox"/> Copyright | <input type="checkbox"/> Trade Marks |
| <input type="checkbox"/> Design rights | <input type="checkbox"/> Others (registered design, plant variety, etc.) |

Comments Regarding IPR Status: (e.g. countries for which protection has been granted or applied for)

Preferred Countries for Dissemination:

DETAILS OF YOUR OWN ORGANISATION/COMPANY

Type* Industry R&D Institution University Private Inventor

Other: please specify

Comments:

Organisation/Company Size* (please tick one box) < 10 employees 11-50 employees
 51-250 employees 251-500 employees > 500 employees

Year Established:

Turnover (only for business profiles): < 1 mio 1 – 10 mio
 10 – 20 mio 20 – 50 mio 50 - 100 mio

Already Engaged in Trans-National Cooperation Yes No

Experience Comments:

Certification Standards: ISO 9001

Languages Spoken: Swedish, English, German

COLLABORATION DETAILS

Type of partnership considered:

Technology Offers

- Commercial Agreement with technical assistance (an agreement arranging the acquisition of a product/technology paired with the provision of a number of services in support of a transfer of technology)
- Joint Venture Agreement
- License Agreement
- Technical co-operation agreement
- Research co-operation agreement

Business Offers

- Distribution services agreement
- Acquisition agreement
- Franchise agency agreement
- Manufacturing agreement
- Outsourcing agreement
- Subcontracting
- Financial agreement
- Services Agreement

Type and Role of Partner Sought*:

Size and Type of Partner Sought (e.g. industry, research): Applied industry relevant research

Additional information (pictures)

CONTACT

Please contact the RespiceSME coordinator Samantha Michaux for the contact data of the company.

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