



COOPERATION OFFER

GENERAL DESCRIPTION

Title Lithuanian SME designer and manufacturer offers micromachining workstations highly customized for industrial and educational needs

Summary

SME offers highly customized micromachining workstations with incorporated nanosecond, picosecond and femtosecond laser sources in combination with advanced beam steering in order to achieve micrometre scale machining precision and repeatability.

Description

The company designs and manufactures laser micromachining workstations with ultrafast lasers for scientific and industrial applications. Know-how in ultrafast laser development and applications ensure the optimized configuration of laser micromachining equipment to meet process quality and efficiency requirements. Knowhow is being accumulated mainly for ablation, drilling, scribing and intro-volume marking processes, whereas ever extending range of materials, already includes silicon, SIC, sapphire, diamond, tungsten carbide, biological materials, biodegradable polymers, glasses, majority of metals, ferroelectric ceramics, etc. Workstations produced by the company are used in eight main application areas that require high-precision material processing:

Laser Micromachining Systems for Applications:

- Metals cold micro-marking
- Thin film solar cells processing
- Flexible electronics manufacturing and selective polymer ablation
- Silicon, glass and sapphire wafers cutting and scribing
- Metal, synthetic diamond or ceramic mechanical tools treatment
- Medical device manufacturing
- Optical and metal coatings patterning
- Fuel injector nozzles and mechanical filters drilling

Advantages and Innovations

Special attention is always paid to ergonomics and safety of the systems. The company's advantage is the ability to meet sophisticated functionality requirements. Due to this, customers vary from world famous universities, research centres, to industrial companies.

The company is working with precise micromachining for various materials: silicon, SIC, sapphire, diamond, tungsten carbide, biological materials, biodegradable polymers, glasses, majority of metals, ferroelectric ceramics etc.

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*:

- Patent(s) applied for but not yet granted
 Granted patents
 Copyright
 Design rights
- Secret know-how
 Exclusive rights
 Trade Marks
 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:

Languages Spoken:

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*:

Partners (commercial companies and research institutions) that are interested in acquisition of micromachining devices are sought for commercial agreements with technical assistance.

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

Additional information (pictures)

CONTACT

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

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