



## COOPERATION OFFER

### GENERAL DESCRIPTION

**Title** Single-crystal coating

#### Summary

The Austrian manufacturer offers a single-crystal coating which can be used for precision interferometry, space based navigation and high-power laser manufacturing. The Austrian company's solution achieves a 10-30 times improved performance over state of the art sputtered coatings, a breakthrough, that was long awaited in the industry, enabling improved and completely new applications in precision measurement. The Austrian company works with customers around the globe in Academia and Industry and is highly engaged in internal and external R&D and partnerships.

#### Description

The Austrian company manufactures low-noise reflective optics using a proprietary coating technology. These high-performance optical coatings are critical for variety of scientific endeavors and commercial industries including broadband communication, navigation and sensing.

The crystalline coatings of the company represent an entirely new paradigm in optical coating technology impacting cavity end mirrors for state-of-the-art ultrastable lasers, cavity-ringdown systems, and ring-laser gyroscopes. Moreover, exploiting the high thermal conductivity and active electro-optic properties of the materials they employ, crystalline coatings promise to have a tremendous impact on ultra-fast and high-power laser systems.

#### Advantages and Innovations

Crystalline coatings enable a 10-30x reduction in mechanical dissipation. Besides ultralow Brownian noise the crystalline coating provides high IR-reflectivity and high thermal conductivity.

#### 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:** The company has customers since 2013

#### Intellectual Property Rights Status\*:

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

**Comments Regarding IPR Status:**



**Preferred Countries for Dissemination:** China especially and Asia in general, India, '

### 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:** 2017

**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:** German, English

### 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\*:**

- Type of partner sought (*such as industry, academy, research organisation*):  
Industry, Academia and Research Organisation, VC
- Specific area of activity of the partner (*example: manufacturer/distributor/user/disposal of plastic packages etc.*)  
Open to all

**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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