

261638-2026 - Competition

Germany – Microelectronic machinery and apparatus – 300 mm BEOL large field exposure system, fully automated (IZM-132) - PR1184859-3460-P

OJ S 74/2026 16/04/2026

Contract or concession notice – standard regime

Supplies

1. Buyer

1.1. Buyer

Official name: Fraunhofer-Gesellschaft - Einkauf B12

Email: einkauf@zv.fraunhofer.de

Legal type of the buyer: Public undertaking

Activity of the contracting authority: General public services

2. Procedure

2.1. Procedure

Title: 300 mm BEOL large field exposure system, fully automated (IZM-132) - PR1184859-3460-P

Description: 300 mm BEOL large field exposure system, fully automated (IZM-132)

Procedure identifier: d1c522a8-ac74-4c71-aa69-cf27698c4634

Internal identifier: PR1184859-3460-P

Type of procedure: Negotiated with prior publication of a call for competition / competitive with negotiation

The procedure is accelerated: no

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 31712100 Microelectronic machinery and apparatus

2.1.2. Place of performance

Town: Dresden-Moritzburg

Postcode: 01468

Country subdivision (NUTS): Meißen (DED2E)

Country: Germany

Additional information: Clean room - to be determined after contract award and consultation with Fhl

2.1.4. General information

Legal basis:

Directive 2014/24/EU

vgv -

2.1.6. Grounds for exclusion

Sources of grounds for exclusion: Notice, Procurement Document, European Single Procurement Document (ESPD)

Analogous situation like bankruptcy, insolvency or arrangement with creditors under national law:

Corruption:
Participation in a criminal organisation:
Agreements with other economic operators aimed at distorting competition:
Breaching of obligations in the fields of environmental law:
Money laundering or terrorist financing:
Fraud:
Child labour and including other forms of trafficking in human beings:
Insolvency:
Breaching of obligations in the fields of labour law:
Assets being administered by liquidator:
Misrepresentation, withheld information, unable to provide required documents or obtained confidential information of this procedure:
Conflict of interest due to its participation in the procurement procedure:
Direct or indirect involvement in the preparation of this procurement procedure:
Grave professional misconduct:
Early termination, damages, or other comparable sanctions:
Breaching of obligations in the fields of social law:
Breaching obligation relating to payment of social security contributions:
Business activities are suspended:
Breaching obligation relating to payment of taxes:
Terrorist offences or offences linked to terrorist activities:
Breaching of obligations set under purely national exclusion grounds: All relevant mandatory and optional grounds for exclusion stipulated by national law apply.

5. Lot

5.1. Lot: LOT-0000

Title: 300 mm BEOL large field exposure system, fully automated (IZM-132) - PR1184859-3460-P

Description: 1 piece: 300 mm BEOL large field exposure system, fully automated (IZM-132) 300mm wide field i-line exposure system to form the link between FEOL lithography and backend lithography targeting sub- μm ultra-high density BEOL like wiring and interconnect formation on front- and backside for 2.5D/3D QMI and chiplet integration. With the equipment, ultra-high BEOL like wiring can be realized on large-area chiplet-based 2.5D/3D wafer-level systems and quasi-monolithic integrated package architectures. It enables leading-edge integration densities. The large field i-line exposure systems forms the link between FEOL lithography and backend lithography through a mid-NA optics with the largest possible field size and with variable depth of focus. It is targeting resolutions significantly smaller than $<800\text{nm}$ L/S to paves the way towards resolutions down to 500 nm L/S with overlay accuracy $<100\text{nm}$. It has the ability of front and back alignment to realize 3D systems, control of the exposure focus as well as a variable depth of focus for thick resist application in the area of re-distribution wiring and μ -interconnects. Optional features: - Extreme deformation and deflection range $>1500\text{-}2500\text{ }\mu\text{m}$ (LV-Pos.1.24) IR-based alignment on the rear side (reflection mode) with an overlap of $\leq 500\text{ nm}$ (3 sigma), essential for through-silicon vias (TSVs) and stacked wafer applications (LV-Pos.1.81) - Pre-alignment correction of centre and rotational errors caused by shifts in alignment marks on stacked wafers (Si/Si) and (glass/Si) to compensate for shifts during wafer bonding, enabling alignment within the required field of view of the exposure tool (please explain solution) (Specification Item 1.85) - Unique pattern-based recognition system (either diffraction-based or image-based) to enable flexible alignment marks for alignment (may be Cognex pattern recognition or similar) (Specification

Item 1.87) - Integration scheme / option for coarse and fine alignment (e.g. coarse alignment using pattern recognition to compensate for displacements during wafer bonding, fine alignment using a diffraction-based alignment mark) (Specification Item 1.88) - Search for coarse alignment marks within the field of view (e.g. FoV 1500 x 1200 µm) to allow a search range of several millimetres; correction using a pre-alignment stage may also be an option --> please explain the solution (Specification Item 1.89)

Internal identifier: LOT-0000

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 31712100 Microelectronic machinery and apparatus

5.1.2. Place of performance

Town: Dresden-Moritzburg

Postcode: 01468

Country subdivision (NUTS): Meißen (DED2E)

Country: Germany

Additional information: Clean room - to be determined after contract award and consultation with Fhl

5.1.3. Estimated duration

Start date: 19/07/2027

Duration end date: 29/10/2027

5.1.6. General information

Reserved participation:

Participation is not reserved.

The names and professional qualifications of the staff assigned to perform the contract must be given: Not required

Procurement Project fully or partially financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

This procurement is also suitable for small and medium-sized enterprises (SMEs): yes

Additional information: #Also particularly suitable for:other-sme#

5.1.7. Strategic procurement

Aim of strategic procurement: No strategic procurement

5.1.9. Selection criteria

Sources of selection criteria: Notice, Procurement Document

Criterion: References on specified works

Description of selection criterion: References for at least 5 devices/projects with comparable technological functionality in the i-line lithography sector, not older than 3 years (brief description of the device, mandatory specification of 300mm wafer size: yes/no, name of client). If, for data protection reasons, you are not permitted to name your customers, please categorise your client (research, industry, other public sector clients) and confirm that your references are comparable to the service being tendered. *** ATTENTION *** If you are not permitted to name your contacts for data protection reasons, please categorise your client (research, industry, other public clients) and confirm that your references are comparable to the service advertised.

Criterion: Average yearly manpower

Description of selection criterion: Company profile: Minimum information: Year of establishment, important milestones in the company's history, number of employees, what is manufactured/what services are provided -> Please provide all information in text form; NO links or images.

Criterion: Other economic or financial requirements

Description of selection criterion: 1. Self-declaration regarding the absence of grounds for exclusion pursuant to Sections 123 and 124 of the German Act against Restraints of Competition (GWB) 2. Self-declaration (EU) No. 833/2014

Criterion: Financial ratio

Description of selection criterion: Turnover of the last 3 financial years

Information about the second stage of a two-stage procedure:

Minimum number of candidates to be invited for the second stage of the procedure: 3

5.1.10. Award criteria

Criterion:

Type: Quality

Name: Technical Specification

Description: Technical Specification

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 65

Criterion:

Type: Price

Name: Price

Description: The total price, including all ancillary costs over the term, is assessed

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 35

5.1.11. Procurement documents

Languages in which the procurement documents are officially available: German

Address of the procurement documents: https://vergabe.fraunhofer.de/NetServer/TenderingProcedureDetails?function=_Details&TenderOID=54321-Tender-19cffb9a39-53417cfcce22c087

5.1.12. Terms of procurement

Terms of the procedure:

Estimated date of dispatch of the invitations to submit tenders: 27/05/2026

Terms of submission:

Electronic submission: Allowed

Address for submission: <https://vergabe.fraunhofer.de>

Languages in which tenders or requests to participate may be submitted: German

Electronic catalogue: Not allowed

Variants: Not allowed

Tenderers may submit more than one tender: Allowed

Deadline for receipt of requests to participate: 18/05/2026 08:00:00 (UTC+02:00) Eastern European Time, Central European Summer Time

Information that can be supplemented after the submission deadline:

At the discretion of the buyer, all missing tenderer-related documents may be submitted later.

Additional information: See procurement documents

Terms of contract:

The execution of the contract must be performed within the framework of sheltered employment programmes: No

Conditions relating to the performance of the contract: In the event that subcontractors are used, they must be named and their suitability is likewise to be substantiated on the basis of the listed documents under "Tendering terms". Furthermore, it must be confirmed that they will be available if the order is placed; their share in the scope of the contractual object must be stated.

Electronic invoicing: Allowed

Electronic ordering will be used: no

Electronic payment will be used: no

5.1.15. Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16. Further information, mediation and review

Review organisation: Vergabekammern des Bundes

Information about review deadlines: Applications for review are not permitted if more than 15 calendar days have passed since receipt of notification from the contracting authority that it is unwilling to redress an objection (section 160 (3) sentence 1 no. 4 of the German Competition Act (Gesetz gegen Wettbewerbsbeschränkungen, GWB)). Additionally, applications for review are not permitted if an award has been made before the public procurement tribunal has informed the contracting authority about the application for review (sections 168 (2) sentence 1 and 169 (1) GWB). Contracts may be awarded 15 calendar days after the tenderer information pursuant to section 134 (1) GWB has been sent. If the information is sent electronically or by fax, the period shall be reduced to ten calendar days (section 134 (2) GWB). The period shall begin on the day after which the contracting authority sends the information; the date of receipt by the tenderer and candidate in question shall be irrelevant. The admissibility of a review application also requires that the applicant notified the contracting authority about the claimed violations of public procurement provisions within ten calendar days of becoming aware of them (section 160 (3) sentence 1 no. 1 GWB). Violations of public procurement provisions which become apparent from the tender notice must be notified to the contracting authority by the end of the time limit for the application or the submission of a tender specified in the notice (section 160 (3) sentence 1 no. 2 GWB). Violations of public procurement provisions which only become apparent from the procurement documents must be notified to the contracting authority by the end of the time limit for the application or the submission of a tender (section 160 (3) sentence 1 no. 3 GWB).

Organisation providing additional information about the procurement procedure: Fraunhofer-Gesellschaft - Einkauf B12

Organisation providing more information on the review procedures: Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.

8. Organisations

8.1. ORG-7001

Official name: Fraunhofer-Gesellschaft - Einkauf B12

Registration number: DE 129515865

Postal address: Hansastraße 27c

Town: München
Postcode: 80686
Country subdivision (NUTS): München, Kreisfreie Stadt (DE212)
Country: Germany
Contact point: Einkauf Betrieb und Infrastruktur
Email: einkauf@zv.fraunhofer.de
Telephone: +49891205-0
Internet address: <https://vergabe.fraunhofer.de/>
Buyer profile: <https://vergabe.fraunhofer.de/NetServer/>

Roles of this organisation:

Buyer

Central purchasing body awarding public contracts or concluding framework agreements for works, supplies or services intended for other buyers

Organisation providing additional information about the procurement procedure

8.1. ORG-7004

Official name: Vergabekammern des Bundes
Registration number: t:022894990
Postal address: Kaiser-Friedrich-Straße 16
Town: Bonn
Postcode: 53113
Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)
Country: Germany
Email: vk@bundeskartellamt.bund.de
Telephone: +49 228 9499-0

Roles of this organisation:

Review organisation

8.1. ORG-7005

Official name: Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
Registration number: DE-129515865
Postal address: Hansastrasse 27c
Town: München
Postcode: 80686
Country subdivision (NUTS): München, Kreisfreie Stadt (DE212)
Country: Germany
Email: einkauf@zv.fraunhofer.de
Telephone: +49 89 1205-0
Internet address: <https://www.fraunhofer.de>

Roles of this organisation:

Organisation providing more information on the review procedures

8.1. ORG-7006

Official name: Datenservice Öffentlicher Einkauf (in Verantwortung des Beschaffungsamts des BMI)
Registration number: 0204:994-DOEVD-83
Town: Bonn
Postcode: 53119
Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)
Country: Germany
Email: noreply.esender_hub@bescha.bund.de

Telephone: +49228996100
Roles of this organisation:
TED eSender

Notice information

Notice identifier/version: 1653ed3e-9f23-49d7-8daf-51ce023ca9ca - 01
Form type: Competition
Notice type: Contract or concession notice – standard regime
Notice subtype: 16
Notice dispatch date: 15/04/2026 08:31:58 (UTC+02:00) Eastern European Time, Central European Summer Time
Languages in which this notice is officially available: German, English
Notice publication number: 261638-2026
OJ S issue number: 74/2026
Publication date: 16/04/2026