

191862-2026 - Competition

Germany – Microelectronic machinery and apparatus – Fully Automated Wafer Electro Chemical Metal Plating Tool (IZM-140) - PR1163163-3460-P

OJ S 55/2026 19/03/2026

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: Fully Automated Wafer Electro Chemical Metal Plating Tool (IZM-140) - PR1163163-3460-P

Description: Fully Automated Wafer Electro Chemical Metal Plating Tool (IZM-140)

Procedure identifier: 210595d3-be30-4c2a-b1ed-0fc10c872274

Internal identifier: PR1163163-3460-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: Fully Automated Wafer Electro Chemical Metal Plating Tool (IZM-140) - PR1163163-3460-P

Description: 1 System: Fully Automated Wafer Electro Chemical Metal Plating Tool (IZM-140)
 The following equipment specification defines a fully automated tool for electro chemical deposition (ECD) of different metal layers on wafer substrates. The focus is on high aspect ratio bumps, redistribution layers (RDL) and copper filling of high aspect ratio trough silicon via (TSV). Wafer substrates are made of Silicon and/or glass, come with diameters of 200 and 300mm and thicknesses up to 2mm. Prior to the process, the wafers are delivered to the tool in front opening unified pods (FOUPs), which are manually placed on the respective load ports by the operator. The new tool must be able to fully automatically run the following series of steps: • Unloading designated wafers from the FOUP • Running wet processes • Unloading wafers back to origin position into FOUP The programming of recipes must be possible within an appropriate range of options and parameters as required for research and development (R&D). The system to be procured with new ECD chamber generation for galvanic processes enables flexible metal deposition of high-aspect ratio pillars, TSV (full fill / liner), damascene RDL / vias (e.g. for hybrid bonding), as well as high density RDLs with line / space distances of < 1µm for 300mm BEOL processes, whereby the handling allows the processing of thinned and bonded wafers and glass wafers (2.5D/3D systems) with high warpage and bow. The tool must enable the electroplating and filling of higher aspect ratios and larger volumes. The interconnect metals required for this new applications are Cu, Ni, SnAg, Au and optional In.
 Optional features: - Thinned wafer thickness range of 200 and 300 mm (Si or glass): 300 ... 600 µm (LV item 1.19.) - Machine is prepared for wafer flip (LV item 1.33.) - Robot with edge gripper end effector (LV item 1.34.) - Chemical pre-cleaning and pre-moistening with deionized

water for resist patterns (LV item 2.21.) - Inline inspection and cleaning of sealed ring contacts (LV item 2.22.) - Indium pattern electroplating (LV item 2.28.) - Single wafer spray process (LV item 2.31.) - 2 x tanks with a capacity of at least 10 liters each for various pre-cleaning chemicals (LV item 2.32.) - Recovery mode (LV item 2.33.) - Overflow protection (LV item 2.34.) - DI water purification (LV item 2.35.) - N2 drying (LV item 2.36.) - Single wafer (LV item 2.82.) - Tank volume of approx. 50 liters for electrolyte (LV item 2.83) - N2 flushing (LV item 2.84) - Tank heating/cooling 20 °C to 60 °C / +-2 °C (LV item 2.85) - Overflow protection for tank and chamber (LV item 2.86.) - Inline filter housing (LV item 2.87.) - DC power supply / stepwise adjustable ampere resolution / up to 50 amperes (LV item 2.88.) - Service life of contact ring > 20,000 wafers / 2 mm seal position / see appendix (LV item 2.89.) - DI water flushing (LV item 2.90) - Inert anodes (LV item 2.91) - Edge bead removal adjustable in a range from 2 mm to 5 mm (LV item 2.108)

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

Duration: 60 Days

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 not 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: Reference of at least 10 devices/projects with comparable technological functionality in the electroplating sector, no older than five years (brief description of device, mandatory information: 300 mm wafer size yes/no, customer name). If you are not permitted to name your customers for data protection reasons, please categorize your client (research, industry, other public clients) and confirm that your references are comparable to the service advertised. *** 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

5.1.11. 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-19c6594c6a2-742fc357e6274b23

5.1.12. Terms of procurement

Terms of the procedure:

Estimated date of dispatch of the invitations to submit tenders: 11/05/2026

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: 20/04/2026 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

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: b4de9593-9422-4efd-885a-7eb6e2b207e9 - 01

Form type: Competition

Notice type: Contract or concession notice – standard regime

Notice subtype: 16

Notice dispatch date: 18/03/2026 07:48:20 (UTC+01:00) Central European Time, Western European Summer Time
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