

Technical specifications (minimum requirements)

Micro Transfer Printing tool



Procurement Department

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Reference
PCM 2026-10185-TS

The Technical specifications (minimum requirements) contains an overview of all requirements that the system must meet. The **M**andatory requirements here apply as a knockout; If a requirement is not met, the Registration will be excluded. For the mentioned **W**ishes tenderers will score points.

The Technical Specification may be amended by the Contracting Authority, as referred in the Request for Proposal. Tenderers will be informed of any amendments to the Technical Specification by means of the Memorandum of Information. After the final Memorandum of Information is published, the Request for Proposal including this Annex as they stand at that moment becomes the final version.

- 1) The tenderer must agree and comply with this final version by answer the question with “Yes” on the platform Tendered, whereby the tenderer declares to fulfil these requirements completely.
- 2) In addition, the tenderer must indicate in the table below that it complies with the relevant requirement Yes/No and with comments if applicable.

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4	Site Acceptance Test	Error! Bookmark not defined.

1 General and service

Nr.		Mandatory or Wish	Yes / No	Comments
1.1	The instrument must be a newly built firsthand instrument: directly installed, supported and maintained by the OEM.	M		
1.2	Supplier shall be able to provide spare parts for at least 10 years after installation is completed.	M		
1.3	Electrical connections & power supply according European (Legal) standards.	M		
1.4	Warranty period should include software configuration, labor hours needed for repairs including, all parts and or tools needed for the instrument operation. Starts after successful site acceptance test (SAT)	M		
1.5	Extended warranty for 12 months after SAT.	W		See wish AC2.1
1.6	Expected response times: 1 workday technical response by mail / call, 5 workdays service onsite, part shipment within 3 workdays.	M		
1.7	Leadtime after purchase order maximum: 12 months.	M		
1.8	A preventive maintenance contract should be included in the offer for the first year, that includes expected labor hours and consumables at an estimated tool utilization of 10%.	M		
1.9	Supplier must have proven track record in manufacturing tools for micro transfer printing.	M		
1.10	A license for using micro transfer printing (MTP) technology to do research must be included.	M		
1.11	Training for at least two people should be included in the quote. The training should cover at minimum basic usage of the tool, amongst other things that are required to operate the tool.	M		

2 Software and computer hardware

Nr.		Mandatory or Wish	Yes / No	Comments
2.1	Control PC, with OS license, keyboard, mouse / trackball / touchscreen and monitor(s).	M		
2.2	Ethernet port for wired network connection and data exchange.	M		
2.3	Control software with different access levels at least: Operator level (running recipes and reviewing results), Engineering level (recipe creation / calibration), Maintenance level (instrument configuration).	M		
2.4	Elaborate logging of process (module) performance, errors and warnings.	M		
2.5	Production-grade control modules	W		See wish AC2.2

3 Overall requirements

Nr.		Mandatory or Wish	Yes / No	Comments
3.1	Air filters and/or ionizers for creating a clean environment inside the tool	M		
3.2	Control of bond force	W		See wish AC2.5
3.3	Capability for handling small samples (4 mm by 6 mm) up to 200 mm wafers	M		
3.4	Placement accuracy of chiplets/coupons	W		See wish AC2.4
3.5	Micro transfer printing of arrays of chiplets/coupons to target substrates.	W		See wish AC2.3
3.6	Cleaning process for cleaning of PDMS stamp after a set number of print cycles. Cleaning must be fully automated and configurable in the software.	M		
3.7	Printing accuracy better than 1 micron (3σ)	M		
3.8	Stamp cleaning process description	W		See wish AC2.6

City and date	
Organisation name	
Signer: Name	
Signer: Position	
Signature:	