

Allegato L2.2 - attribuzione dei punteggi sulla base dei criteri di valutazione (Lotto 2)

Offerta tecnica UpNano GmbH

Description of elements and qualifying requirements			Type of score	Evaluation method	Max points	Punteggio COMMISSIONE	NOTE
1 - 2-photon lithography 3D printer	1.1	Printing area (mm²)	Q(+)	Value greater than the mandatory requirement 1.2	2	2,00	Offrono modalità VAT
	1.2	** Printing height	Q(+)	Value greater than the mandatory requirement 1.3	4	4,00	40 mm
	1.3	** Ability to print components with surface roughness <10nm	T	Present/absent	4	4,00	8,6 nm
2 - High resolution 3D printing (magnification higher than 40x)	2.1	* Printing time	D	Technical evaluation based on the report of the 3D printing test	5	0,00	11'12"
	2.2	* Horizontal feature size in the xy plane (µm)	Q(-)	Value lower than the mandatory requirement 2.2	8	2,63	227 nm
	2.3	* Vertical feature size along the z-axis (µm)	Q(-)	Value lower than the mandatory requirement 2.3	8	4,44	367 nm.
3 - Software interface	3.1	Integrated development environment, with the ability to generate and edit 3D printing files with custom parameters	T	Present/absent	2	2,00	Present
	3.2	Adaptive printing option, for automatic optimization of parameters according to the shape of the object	T	Present/absent	1	1,00	The NanoOne offers a patented printing process, called adaptive resolution, which enables faster printing times due to beam widening in one axis during printing. This beam widening can be controlled dynamically during the printing process, where fine parameters are used for high-resolution regions and coarse parameters for low-resolution regions (bulk material). Think3D can automatically distinguish between these high- and low-resolution regions and optimizes the printing parameters according to the shape of the object. [T2, 3.2] Or be manually set by the operator.
	3.3	Remote access to monitor printing	T	Present/absent	1	1,00	Present
	3.4	System to compensate for any tilting errors	T	Present/absent	2	2,00	Present
	4.1	Supply of sample materials with different chemical-physical and mechanical properties (ml)	Q(+)	Value greater than the mandatory requirement 4.1	1	1,00	In the offer 5 different materials (material cartridge of 25 mL, ± 125 mL)
4 - Materials	4.2	Possibility of using elastomeric materials	T	Present/absent	1	1,00	Present: UpFlex, elastomeric material, experimental material, commercial release Q1, 2024
5 - Accessories and add-ons	5.1	Number of objectives supplied (including accessories and parameters for use) at various magnifications	T	4 points: two objectives 8 points: three objectives 12 points: four or more objectives	12	12,00	The N1 250 will be supplied with four objectives for printing at different magnifications
	5.2	Touchscreen interface to control printing processes	T	Present/absent	1	1,00	Present
6 - Training	6.1	Duration of post- installation training	Q(+)	Value greater than the mandatory requirement 7.1	2	2,00	4gg
	6.2	Perpetual access to online training and support resources (e.g., e-learning support or webinars) for the good and efficient use of the system	T	Present/absent	1	1,00	Present
7 - Service and maintenance	7.1	Duration of service and maintenance	Q(+)	Value greater than the mandatory requirement 8.3	5	5,00	48 mesi
	7.2	Quality of the service and maintenance (e.g., frequency of service visits with travel costs included, responsive support etc.)	D	Value based on the information provided by the Economic Operator	2	2,00	See DRAFT-SLA_PISA_2024.pdf
8 - Warranty	8.1	Duration of warranty, including possible replacement of all failed and/or malfunctioning components	Q(+)	Value greater than the mandatory requirement 9.1	8	4,00	12 + 12

TOT	70,00	52,07
Normalizzato		64,22