

Allegato L1.1 - attribuzione dei punteggi sulla base dei criteri di valutazione (Lotto 1)

Offerta tecnica Nanoscribe GmbH & Co.KG

Description of elements and qualifying requirements		Type of score	Evaluation method	Max points	PUNTEGGIO ATTRIBUITO DALLA COMMISSIONE	NOTE	
1 - 2-photon lithography 3D printer	1.1	Printing area (mm²)	Q(+)	Value greater than the mandatory requirement 1.2	4	0,00	Confermano 50x50
	1.2	** Printing height	Q(+)	Value greater than the mandatory requirement 1.3	4	0,00	Confermano 20 mm
	1.3	** Ability to print components with surface roughness <10nm	T	Present/absent	2	2,00	The surface roughness with Nanoscribe materials can be below 10 nm like, e.g. stated in this example: "optical quality structures with submicron resolution with less than 5 nm roughness" https://doi.org/10.1364/OL.497452
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	4	4,00	2 min 13" or 1 min 34" (best time)
	2.2	* Horizontal feature size in the xy plane (µm)	Q(-)	Value lower than the mandatory requirement 2.2	4	4,00	Between 0,16 and 0,21 µm
	2.3	* Vertical feature size along the z-axis (µm)	Q(-)	Value lower than the mandatory requirement 2.3	4	4,00	Circa 0,2 µm
3 - Low resolution 3D printing (magnification lower than 5x)	3.1	* Printing time	D	Technical evaluation based on report of the 3D printing test	4	4,00	5:22 h
	3.2	* Horizontal feature size in the xy plane (µm)	Q(-)	Value lower than the mandatory requirement 3.2	4	2,22	1,5 µm on grating
	3.3	* Vertical feature size along the z-axis (µm)	Q(-)	Value lower than the mandatory requirement 3.3	4	4,00	18 µm
4 - Software interface	4.1	Integrated development environment, with the ability to generate and edit 3D printing files with custom parameters	T	Present/Absent	2	2,00	Present
	4.2	Adaptive printing option, for automatic optimization of parameters according to the shape of the object	T	Present/Absent	1	1,00	Present
	4.3	Remote access to monitor printing	T	Present/Absent	1	1,00	Present
	4.4	System to compensate for any tiling errors	T	Present/Absent	2	2,00	Present
5 - Printing Materials	5.1	Supply of sample materials with different chemical-physical and mechanical properties (ml)	Q(+)	Value greater than the mandatory requirement 5.1	1	0,75	The solution sets themselves include (density is around 1.1 g/ml), Photoresin IP-Dip, 50 g; IP-S, 50 g, Photoresin IPX-Q, 30 g; IPX-S, 60 g; IPX-M, 50 g; and on-top we add as well an extra-large portion IPX-M with another 300g sums up to 540 g which corresponds to around 490 ml.
	5.2	Possibility of using elastomeric materials	T	Present/absent	1	1,00	IP-PDMS
6 - Accessories and add-ons	6.1	Number of objectives (including accessories and parameters for use) with different magnifications or numerical apertures	Q(+)	Value greater than the mandatory requirement 6.1	4	0,00	They offer 4 objectives
	6.2	Touchscreen interface to control printing processes	T	Present/absent	1	1,00	Present
	6.3	CO2 control system, to ensure cell viability during printing	T	Present/absent	4	4,00	Present
7 - Training	7.1	Duration of post- installation training	Q(+)	Value greater than the mandatory requirement 8.1	2	0,00	They offer 3 days
	7.2	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
8- Service and maintenance	8.1	Duration of service and maintenance	Q(+)	Value greater than the mandatory requirement 9.3	5	0,00	36 mesi come da requisiti minimi
	8.2	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	3	3,00	Unlimited and free access to regular support webinars; Direct access to personal support (phone or email); 12 hours of dedicated support per year; Unlimited technical support in case of machine failures; Software updates (machine software and print preparation software); 24 h response time of support after initial report of an issue; Remote inspection within 48 h after initial report of an issue; (The first year includes as well one maintenance visit).
9 - Warranty	9.1	Duration of warranty, including possible replacement of all failed and/or malfunctioning components	Q(+)	Value greater than the mandatory requirement 10.1	8	8,00	12 mesi "Platinum" e 24 ulteriori mesi "fundamental"

TOT	70,00	48,98
Normalizzato		63,81