

Allegato L2.1 - attribuzione dei punteggi sulla base dei criteri di valutazione (Lotto 2)

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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 (mm ²)	Q(+)	Value greater than the mandatory requirement 1.2	2	0,00	Non offrono di più del minimo richiesto
	1.2	** Printing height	Q(+)	Value greater than the mandatory requirement 1.3	4	0,00	20 mm
	1.3	** Ability to print components with surface roughness <10nm	T	Present/absent	4	4,00	Less than 5 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	5,00	2min 13 s.
	2.2	* Horizontal feature size in the xy plane (µm)	Q(-)	Value lower than the mandatory requirement 2.2	8	8,00	180 nm
	2.3	* Vertical feature size along the z-axis (µm)	Q(-)	Value lower than the mandatory requirement 2.3	8	8,00	180 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	Present
	3.3	Remote access to monitor printing	T	Present/absent	1	1,00	Present
	3.4	System to compensate for any tiling errors	T	Present/absent	2	2,00	Present
4 - Materials	4.1	Supply of sample materials with different chemical-physical and mechanical properties (ml)	Q(+)	Value greater than the mandatory requirement 4.1	1	0,75	The different chemical-physical and mechanical properties are described above. 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.
	4.2	Possibility of using elastomeric materials	T	Present/absent	1	1,00	One of the above described materials is as well IP-PDMS, for 2PP printing of soft, flexible and highly elastic structures
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	they offer in total 4 different objectives.
	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	0,00	3 days
	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	0,00	36 mesi, come le minime
	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	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)
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	8,00	Totale di 36 mesi, 24 in più

TOT	70,00	56,75
Normalizzato		70,00