

Fixed Target Serial Data Collection at Diamond Light Source

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Materials

Name	Company	Catalog Number	Comments
Chip Holders	Custom Built	N/A	In-house custom built metallic chip holders consisting of 2 magnetic base plates, 2 metal rings, and a kinematic mount.
Chipless Chip Spacers	SWISCI	N/A	LCP adhesive sheets available as part of the LCP modular range
Geobrick LV-IMS-II	Delta Tau	N/A	A multi-axis controller/amplifier with a custom Diamond Light Source hardware configuration
Kinematic Mounts	ThorLabs	KB25/M	Square bases with 3 magnets arranged in a triangle affixed to chip holders.
KNF Laboport Vacuum Pump	Merck	Z262285-1EA	Solid PTFE vacuum pump, 10 l/min pumping speed.
Mylar Sheets 6 µm	Fisher Scientific	15360562	300 ft roll of 6 µm thick mylar XRF film by SPEX SamplePrep
Mylar Sheets 3 µm	Fisher Scientific	04-675-4	300 ft roll of 3 µm thick mylar XRF film by SPEX SamplePrep
Pelco easiGlow Glow Discharge System	Ted Pella, INC.	91000	A compact stand alone glow discharge system used to produce hydrophilic surfaces
Silicon Chips	University of Southampton	N/A	Custom etched silicon chips with 25,6000 apertures available in a variety of sizes.
Translation Stages	Smaract	N/A	XYZ sample stages are a collaborative design by Diamond Light Source and SmarAct, custom-built by SmarAct using three linear translation 50mm travel stages, precise crossed roller guideways, and an integrated sensor with up to 1 nm resolution

1byOne Humidifier (701UK-0003)	1byOne	B01DENO0EQ	Commercially available 1.3 Litre ultrasonic humidifier
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