3D printing ferma: fotopolimer xaridlari

Smola bilan bosadigan printerlar, sarf materiallari, himoya vositalari va alohida ventilyatsiyali xona: rasm, model, soni, narxi va qayerdan olinishi. Xonaning raqamlangan chizmasi oxirgi sahifada (B xona).



Jami xarid

48 100 000 so‘m

Printer to‘plami	**20 000 000**	Smola va IPA	**4 500 000**
Sarf va himoya	**2 460 000**	Fotopolimer xonasi (2,5 × 2,2 m)	**21 140 000**

Narxlar so‘mda, Toshkent, 2026-yil noyabr holatiga. Xorijdan keladigan uskunalar narxi rasmiy narx × 1,45 (yetkazish va bojxona bilan); “mahalliy” — Toshkent do‘konlari bo‘yicha taxmin.

“foto” belgili rasmlar ishlab chiqaruvchining rasmiy sahifasidan olingan (Bambu Lab, Elegoo, Snapmaker); qolganlari chizma ko‘rinishda. Smola va IPA hidli va teriga zararli — xona, so‘rgich va himoya vositalari printer bilan birga majburiy.

Fotopolimer: nima olinadi

Jami
48 100 000 so‘m

2 × Elegoo Saturn 4 Ultra 16K + Mercury Plus V3.0, smola va IPA, sarf va himoya, 2,5 × 2,2 m alohida xona jihozlari.

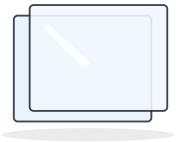
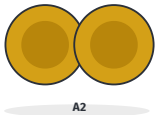
Printer to‘plami

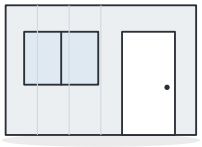
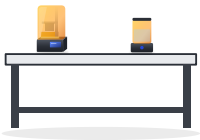
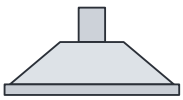
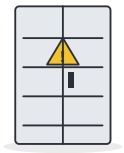
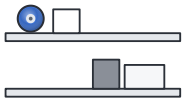
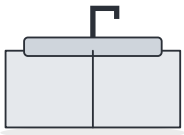
			Soni	Narx, so‘m	Jami, so‘m
1		**Elegoo Saturn 4 Ultra 16K + Mercury Plus V3.0** Fotopolimer printer (16K, mayda detal, figura) va yuvish-quritish stansiyasi; to‘plamda boshlang‘ich smola. Rasmiy $525 aksiya (asl $832). elegoo.com ↗ foto	2 to‘plam	10 000 000	**20 000 000**
				Printer to‘plami: jami	**20 000 000**

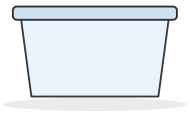
Smola va IPA

			Soni	Narx, so‘m	Jami, so‘m
2		**Elegoo Standard Resin V2.0, 1 kg** Asosiy smola. Rasmiy $19.99. elegoo.com ↗ foto	6 kg	450 000	**2 700 000**
3		**IPA 99% izopropil spirt, 5 L** Detallarni yuvish uchun; mahalliy kimyo do‘koni. Toshkent, mahalliy do‘kon	8 kanistr	225 000	**1 800 000**
				Smola va IPA: jami	**4 500 000**

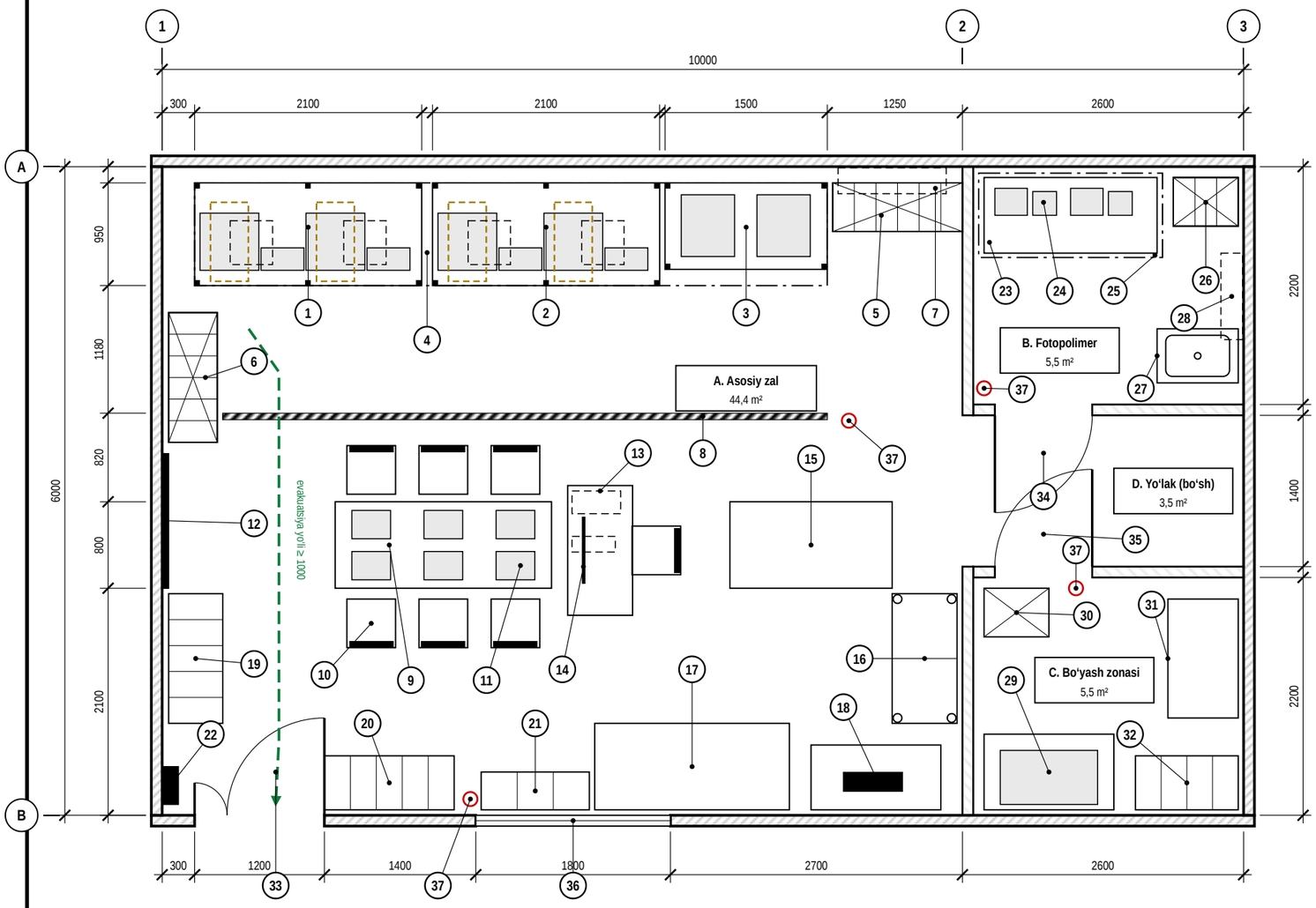
Sarf va himoya

			Soni	Narx, so‘m	Jami, so‘m
4		**FEP / ACF plyonka — Saturn 4 Ultra** Har 1–3 oyda almashtiriladi. Toshkent, mahalliy do‘kon	6 dona	150 000	**900 000**
5		**Nitril qo‘lqop, 100 dona** Smola teriga tegmasligi shart. Toshkent, mahalliy do‘kon	4 quti	90 000	**360 000**
6		**Respirator 3M 6002 A2P2** 6200 niqob + 6055 + 5925 filtr. Fotopolimer xonasi uchun. 3m.com ↗	2 dona	450 000	**900 000**
7		**3M 6055 A2 zaxira filtr (juft)** Organik bug‘lar uchun. 3m.com ↗	2 juft	150 000	**300 000**
				Sarf va himoya: jami	**2 460 000**

Fotopolimer xonasi (2,5 × 2,2 m)			Soni	Narx, so‘m	Jami, so‘m
8		**Gipsokarton to‘siq + eshik** Xonani asosiy zaldan ajratadi, oynali. Montaj ustasi	1 dona	6 000 000	**6 000 000**
9		**Kanalli so‘rgich 150–250 m³/soat + kanal Ø125 + teskari klapan** Smola hidini tashqariga chiqaradi. Toshkent, mahalliy do‘kon	1 dona	1 300 000	**1 300 000**
10		**Eshikda toza havo panjarasi** So‘rgich uchun havo kirishi. Toshkent, mahalliy do‘kon	1 dona	100 000	**100 000**
11		**Fotopolimer stoli 1600 × 700 × 900** HPL yoki zanglamas qopqoq. Toshkent, mahalliy do‘kon	1 dona	3 000 000	**3 000 000**
12		**So‘rgich zonti stol ustida** Tunukasozga buyurtma. Ustaga buyurtma	1 dona	1 200 000	**1 200 000**
13		**Metall shkaf: smola va IPA, qulfli** Yonuvchan suyuqliklar alohida. Toshkent, mahalliy do‘kon	1 dona	1 500 000	**1 500 000**
14		**Devor polkasi (sarf materiallar)** Toshkent, mahalliy do‘kon	1 dona	600 000	**600 000**
15		**Rakovina + suv** Faqat qo‘l yuvish va qotirilgan detallarni chayish; smola, IPA, yuvindi suv quyilmaydi. Montaj ustasi	1 dona	1 500 000	**1 500 000**
16		**Konditsioner 9000 BTU** Smola uchun 22–30 °C ushlab turish. Toshkent, mahalliy do‘kon	1 dona	4 500 000	**4 500 000**
17		**UV filtrli / sariq LED yoritgich** Smola xonada qotib qolmasligi uchun. Toshkent, mahalliy do‘kon	2 dona	200 000	**400 000**
				Fotopolimer xonasi (2,5 × 2,2 m): jami	**21 140 000**

Fotopolimer xonasi (2,5 × 2,2 m)			Soni	Narx, so‘m	Jami, so‘m
18		**Kukunli o‘t o‘chirgich OP-5 + tutun datchigi** Toshkent, mahalliy do‘kon	1 to‘plam	450 000	**450 000**
19		**Ko‘z yuvish shishasi, aptechka** Toshkent, mahalliy do‘kon	1 to‘plam	200 000	**200 000**
20		**Yopiq kanistr 20 L, yorliqli** Ishlatilgan IPA va smolali yuvindi suv: quyosh/UV da qotiriladi, xavfli chiqindi sifatida topshiriladi. Toshkent, mahalliy do‘kon	2 dona	120 000	**240 000**
21		**Yopiq metall chelak, yorliqli** Qotirilgan smola qoldiqlari va ifloslangan qo‘lqoplar. Toshkent, mahalliy do‘kon	1 dona	150 000	**150 000**
				Fotopolimer xonasi (2,5 × 2,2 m): jami	**21 140 000**

Jihozlar joylashuvi — reja, +0.000



№	Nomi	O‘lcham, mm	Soni
1	Ikki qavatli printer stoli (2 × A2L + AMS Lite, 2 × P2S)	2100×950×1950	1
2	Ikki qavatli printer stoli (2 × A2L + AMS Lite, 2 × P2S)	2100×950×1950	1
3	H3C stoli + 2 × Bambu H3C Combo	1500×800×500	1
4	Vytyajka zonti (h = 2350, punktir)	5850×950	1
5	Quruq filament shkafi	1200×450×2000	1
6	Quruq filament shkafi	450×1200×2000	1
7	Konditsioner 18000 BTU (devorda, punktir)	1000×240	1
8	Xavfsizlik chizig‘i (pol lentasi)	50 mm	1
9	O‘quv stoli	2000×800×750	1
10	Stul	450×450	6
11	Noutbuk Lenovo Legion 5 (RTX 4060)	358×262	6
12	TV 55" (devorda, h = 950)	1250	1
13	Mentor stoli + stul	1200×600×750	1
14	Mentor PC, monitor 27", UPS (stol ostida)	—	1
15	Ish stoli (verstak) + perfopanel	1500×800×900	1
16	G‘ildirakli stol	1200×600×850	1
17	Qadoqlash stoli	1800×800×900	1
18	Farm Manager PC + UPS stoli	1200×600×750	1
19	Tayyor mahsulot stellaji	500×1200×2000	1
20	Tayyor mahsulot stellaji	1200×500×2000	1
21	Past stellaj (deraza ostida)	1000×350×900	1
22	Elektr shchiti (h = 1200)	150×350	1
23	Fotopolimer stoli	1600×700×900	1
24	Elegoo Saturn 4 Ultra 16K × 2, Mercury Plus × 2	—	1
25	So‘rgich zonti (h = 1900, punktir)	1700×780	1
26	Smola va IPA shkafi	600×450×1800	1
27	Rakovina	750×500	1
28	Konditsioner 9000 BTU (devorda, punktir)	800×200	1
29	Bo‘yash kamerasi (stol + booth)	1200×700	1
30	Bo‘yoq shkafi	600×450×1800	1
31	Silliqlash stoli	650×1100×900	1
32	Quritish stellaji	950×500×1800	1
33	Kirish eshigi 900 + 300	1200	1
34	Fotopolimer xonasi eshigi	900	1
35	Bo‘yash zonasi eshigi	900	1
36	Deraza	1800	1
37	O‘t o‘chirgich OP-5 / CO_2	—	4

Izohlar

1. O‘lchamlar millimetrda. Shift balandligi ≥ 2800 mm. Tashqi devor 100 mm, ichki to‘siqlar — gipsokarton 100 mm.
2. Punktir — devorga yoki shiftga osilgan / balandda turgan jihozlar (zontlar, konditsionerlar, P2S yuqori qavatda).
3. Ikki qavatli stol: pastki qavat 200 mm, yuqori qavat 1100 mm, ramka 1950 mm. Variant: tepada P2S o‘rniga Snapmaker U1.
4. Evakuatsiya yo‘li kamida 1000 mm, shchit oldida 900 × 760 mm bo‘sh joy. D — bo‘sh yo‘lak (zaxira joy).
5. Fotopolimer xonasi alohida so‘rgich bilan (150–250 m³/soat), eshigi doim yopiq; bo‘yash zonasi — o‘z ventilyatori bilan.
6. A2L stoli Y bo‘ylab ~330 mm yuradi: harakat zonasi 730 mm (sariq punktir), orqasida kabel uchun ≥ 140 mm — shu sabab stol chuqurligi 950 mm.

Tashqi devor · Gipsokarton to‘siq · Balandda / ostida (punktir) · Printer, uskuna · Xavfsizlik chizig‘i · A2L stol harakat zonasi · Evakuatsiya yo‘li

0 1 2 3 4 5 m — Masshtab 1:50 (A3 varaqda)

3D printing ferma — xona rejasi

Jihozlar joylashuvi, 10 × 6 m = 60 m²

Masshtab **1:50**	Varaq **A3, 1 / 1**
O‘lchamlar **mm**	Bosqich **Loyiha**
Sana **26.11.2026**	Shahar **Toshkent**
Chizdi **Claude**	Tasdiqladi **—**