Mebel bukleti

3D printing ferma, 10 × 6 m. Nima yasalishi va nima sotib olinishi kerak: aniq o‘lchamlar, chizmalar, kesish ro‘yxatlari, xarid ro‘yxatlari va yig‘ish tartibi. Narxlar bu bukletda yo‘q.

№	Buyum	Soni	Kim yasaydi	Varaq
1	Ikki qavatli printer stoli	2 dona	payvandchi	2–4
2	H3C stoli	1 dona	payvandchi	5–7
3	Quruq filament shkafi	2 dona	mebelchi + oyna ustaxonasi	8–10
4	Vytyajka zonti (printerlar)	1 dona	tunukasoz	11–12
5	Fotopolimer zonti	1 dona	tunukasoz	11–12
6	Tayyor mebel ro‘yxati	18 nom	do‘kon	13
—	Xona rejasi (joylashuv)	1:50 dan kichraytirilgan	—	14

O‘lchamlar millimetrda. Eni × Chuqurligi × Balandligi. Barcha o‘lchamlar saytdagi kalkulyator, 3D model va xona rejasi bilan bir xil (2026-yil 26-noyabr). Ustaga buyurtma berishdan oldin printerlarni o‘zingiz o‘lchab tekshiring.



1 Ikki qavatli printer stoli

Buyurtma · payvandchi · 2 dona

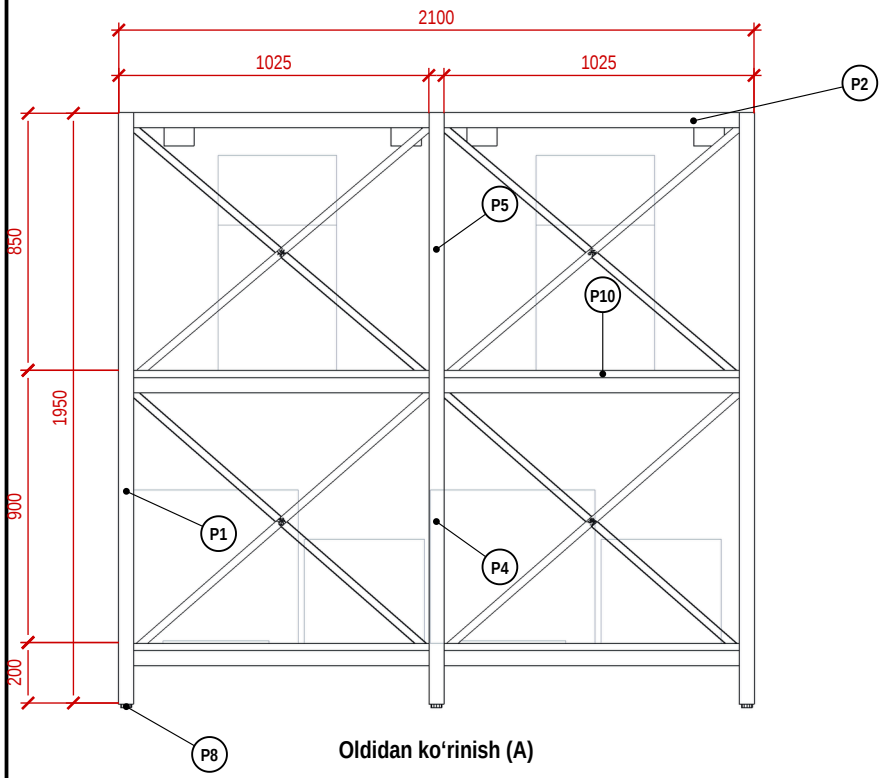


Render: kulrang shaffof bloklar — printerlar (A2L + AMS Lite pastda, P2S + AMS 2 Pro tepada), sariq — A2L stolining harakat zonasi. Oldi — chap pastda.

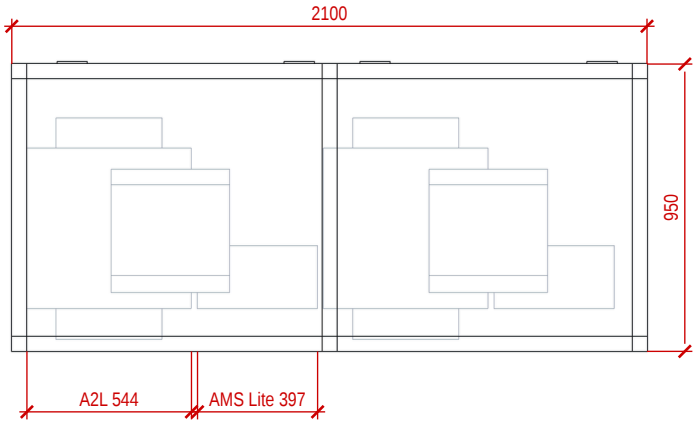
Soni	2 dona (Stol 1, Stol 2)
Gabarit	2100 × 950 × 1950 mm (Eni × Chuqurligi × Balandligi)
Qavatlar	pastki 200 mm (2 × A2L + AMS Lite), yuqori 1100 mm (2 × P2S + AMS 2 Pro yoki 2 × Snapmaker U1)
Karkas	kvadrat truba 50×50×3, 6 ustun, 3 sath; X-bog‘lovchi 25×25×2 — orqada va yonlarda, oldi ochiq
Qavat	fanera FK 24 mm, 2100 × 950
Hisobiy yuk	har qavatga 150 kg (amalda ~40–50 kg)
Massa	~165 kg metall + ~62 kg fanera
Kim yasaydi	payvandchi (metall), duradgor yoki payvandchi (fanera)

Nega aynan shunday

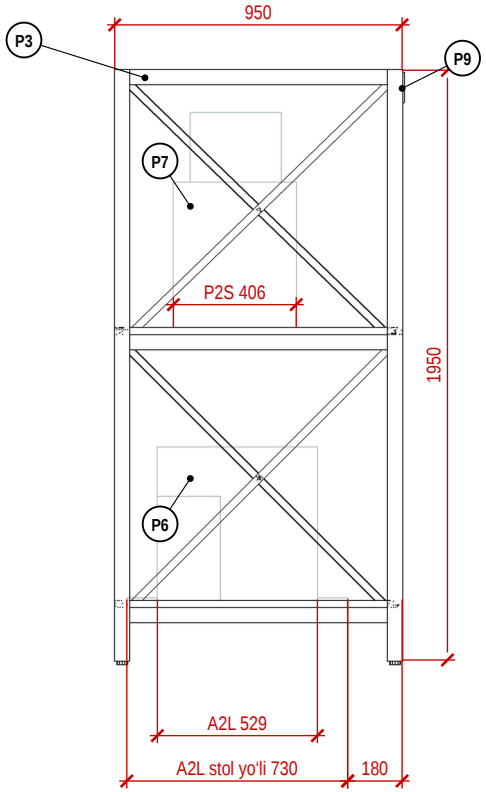
- Chuqurlik 950 mm: A2L stoli old-orqa ~330 mm yuradi, korpusdan ~100 mm chiqadi. A2L korpusi orqa chetdan 280 mm oldinda qo‘yiladi: stol orqasida kabel uchun 180 mm (≥ 140 mm), oldida plita stoldan chiqmaydi.
- Ustunlar 1950 mm gacha ko‘tarilib, tepada ramka bilan yopiladi: yuqori qavat ham qattiq quti — A2L stolining zarbi P2S ga o‘tmaydi.
- X-bog‘lovchi faqat orqa va yonlarda: old tomon printerga kirish uchun ochiq. Ramka devorga 4 ta anker bilan mahkamlanadi.
- Tepada polka yo‘q: AMS 2 Pro usti 1808 mm, ramka 1950 mm — qopqoq bemalol ochiladi. U1 balandligi 730 mm: 1100 + 730 = 1830 mm.



Oldidan ko‘rinish (A)



Ustidan ko‘rinish (C), pastda — old



Yondan ko‘rinish (B), chapda — old

Kulrang ingichka chiziqlar — printerlar konturi (yig‘ilgandan keyin qo‘yiladi).

X-bog‘lovchi (P4–P7) faqat orqada va yonlarda, old tomon ochiq.

A2L korpusi orqa chetdan 280 mm, P2S — 350 mm oldinda turadi.

Payvand choklari: ustun–bo‘ylama — to‘liq aylana chok; X — ikki tomondan.

Ikki qavatli printer stoli — chizma

3D printing ferma · mebel bukleti · o‘lchamlar mm

M 1:25 (A4) · varaq 3

1 Ikki qavatli printer stoli — kesish, xarid, yig‘ish

Kesish ro‘yxati

Poz.	Detal	Material	L, mm	1 donaga	2 stolga	Izoh
P1	Ustun	Kv. truba 50×50×3	1950	6	12	90°; pastiga 50×50×4 plastina + M12 gayka payvandlanadi
P2	Bo‘ylama (old/orqa)	Kv. truba 50×50×3	975	12	24	90°; 3 sathda (126, 1026, 1900 mm), ustunlar orasiga
P3	Ko‘ndalang (chuqurlik)	Kv. truba 50×50×3	850	9	18	90°; 3 sathda, har ustun qatorida
P4	X-bog‘lovchi, orqa, pastki qavat	Kv. truba 25×25×2	1293	4	8	ikki uchi qiyiq, joyida o‘lchab kesiladi
P5	X-bog‘lovchi, orqa, yuqori qavat	Kv. truba 25×25×2	1277	4	8	ikki uchi qiyiq
P6	X-bog‘lovchi, yon, pastki qavat	Kv. truba 25×25×2	1202	4	8	ikki uchi qiyiq
P7	X-bog‘lovchi, yon, yuqori qavat	Kv. truba 25×25×2	1184	4	8	ikki uchi qiyiq
P8	Oyoq plastinasi	List 50×50×4	50	6	12	markazida M12 gayka payvandlanadi
P9	Devor kronshteyni	Burchak 40×40×4	100	4	8	Ø11 teshik × 2
P10	Qavat (pastki, yuqori)	Fanera FK 24 mm	2100	2	4	2100 × 950; ustun joylarida 50×50 o‘yiq (6 ta)

Yig‘ish tartibi

1. Kesish ro‘yxati bo‘yicha barcha detallarni kesing (P1–P9), uchlarini tozalang. Bir xil detallarni bir-biri bilan solishtiring: farq ≤ 1 mm.
2. 3 ta «narvon» yig‘ing: old va orqa ustun (P1) + 3 ta ko‘ndalang (P3) 126, 1026, 1900 mm sathda. Tekis stolda payvandlang, diagonallar farqi ≤ 2 mm.
3. Narvonlarni tik qo‘yib, bo‘ylamalar (P2) bilan 3 sathda ulang. Har bo‘limda diagonallarni o‘lchang (≤ 2 mm), ustunlar tik (≤ 1 mm/m).
4. Orqa va yonlarga X-bog‘lovchilarni (P4–P7) payvandlang. Old tomonga bog‘lovchi qo‘ymang.

Qabul qilishda tekshiring

- Yuqori burchakni qo‘l bilan itarganda ramka qimirlamaydi (devorga ankerlangan).
- Qavat tekisligi: 2 m reykada ≤ 2 mm.
- A2L stoli oxirigacha yurganda hech narsaga tegmaydi, orqasida ≥ 140 mm bo‘sh; kabel tortilmaydi.
- AMS 2 Pro qopqog‘i to‘liq ochiladi (ramkaga tegmaydi).

Nima sotib olinadi (2 stolga)

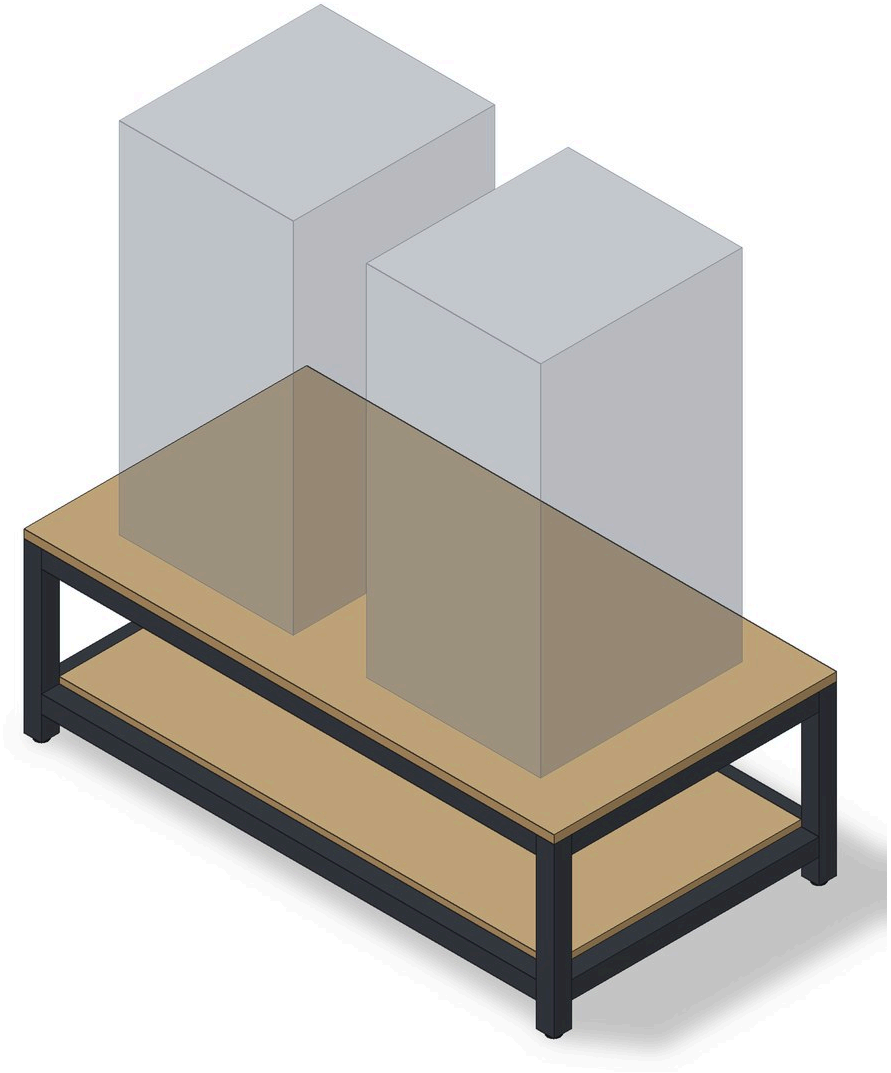
Nima	Aniq talab	Soni
Kvadrat truba 50×50×3, 6 m	GOST 30245, qora po‘lat; 1 stolga 31,1 m (6 ta 6 m: 3×1950 → 2 ta, 6×975 → 2 ta, 7×850 → 2 ta)	12 dona
Kvadrat truba 25×25×2, 6 m	X-bog‘lovchilar; 1 stolga 19,8 m	8 dona
List po‘lat 4 mm	oyoq plastinalari 50×50 (12 ta) — qoldiqdan yoki 0,25 × 0,25 m bo‘lak	1 bo‘lak
Burchak 40×40×4	devor kronshteynlari 100 mm (8 ta)	1 m
Gayka M12 + sozlanadigan oyoq M12	rezina tovonli, Ø50–60 mm, ≥ 100 kg	12 + 12
Anker bolt M10×100	g‘isht/beton devorga, shayba bilan	8
Fanera FK 24 mm	qayin, 2440×1220 yoki 2500×1250 list; har qavatga 1 list	4 list
O‘ziburar shurup 4,8×38	parmali, metall uchun, yassi kallak; har 300 mm	100
Elektrod Ø3 (MR-3) va disklar	kesish 125×1,2 va tozalash 125×6	3 kg + 10 + 4
Gruntovka GF-021 + emal PF-115	grafit RAL 7016 (yoki poroshok bo‘yash); ~17 m²	3 kg + 4 kg
Fanera uchun lak / bo‘yoq	qirralar va yuzasi namlikdan	1 l

Yig‘ish tartibi (davomi)

5. Ustunlar ostiga plastina P8 (M12 gayka bilan), orqa yuqori bo‘ylamaga devor kronshteynlari P9 (4 ta) payvandlang.
6. Choklarni tozalang, yog‘sizlang, 1 qavat gruntovka + 2 qavat emal (yoki poroshok bo‘yash).
7. Joyiga qo‘ying (orqa devorga taqab), oyoqlar bilan tekislang (≤ 1 mm/m), kronshteynlar orqali M10 ankerlar bilan devorga mahkamlang.
8. Fanerani 2100 × 950 kesing, ustun joylarida 50×50 o‘yiqlar; qirralarini laklang; bo‘ylama va ko‘ndalanglarga har 300 mm da shurup bilan qoting.
9. Printerlarni joylang: A2L orqa chetdan 280 mm (old chetdan 141 mm), AMS Lite o‘ng yonida; P2S orqa chetdan 350 mm. A2L stolini qo‘lda oxirigacha yurgizib ko‘ring.

2 H3C stoli

Buyurtma · payvandchi · 1 dona

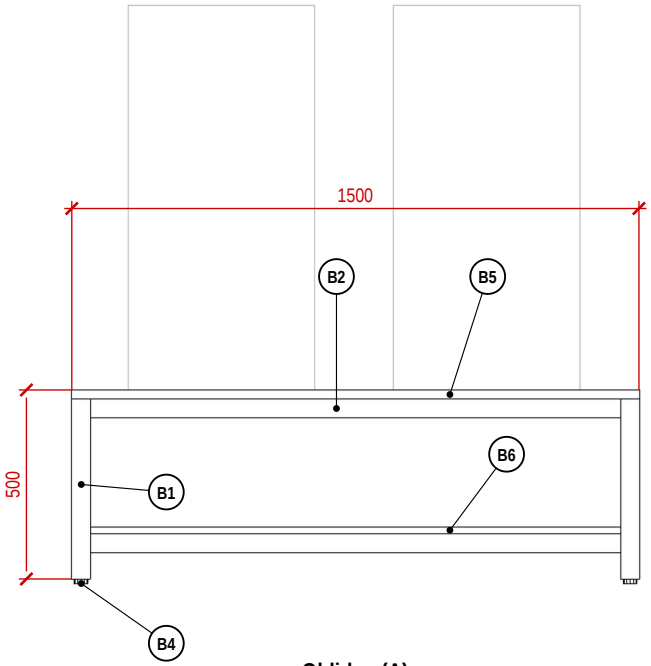


Render: kulrang shaffof bloklar — 2 × H3C Combo.

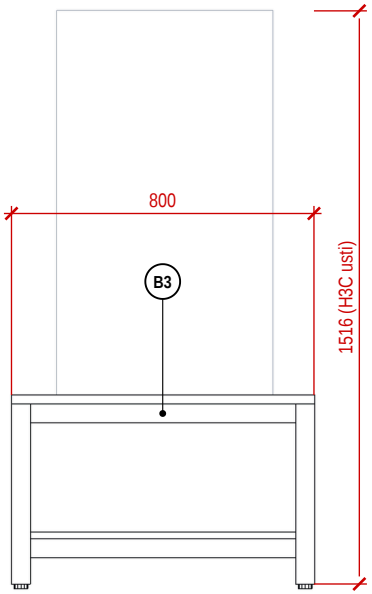
Soni	1 dona
Gabarit	1500 × 800 × 500 mm
Yuk	2 × Bambu H3C Combo (har biri 36,3 kg, AMS 3H bilan 493 × 571 × 1016 mm) — ~80 kg; hisobiy 200 kg
Karkas	kvadrat truba 50×50×3, 4 oyoq, tepada va pastda rama
Qopqoq / polka	fanera FK 24 mm 1500 × 800 / fanera FK 18 mm 1400 × 700
Massa	~49 kg metall + ~30 kg fanera
Kim yasaydi	payvandchi

Nega aynan shunday

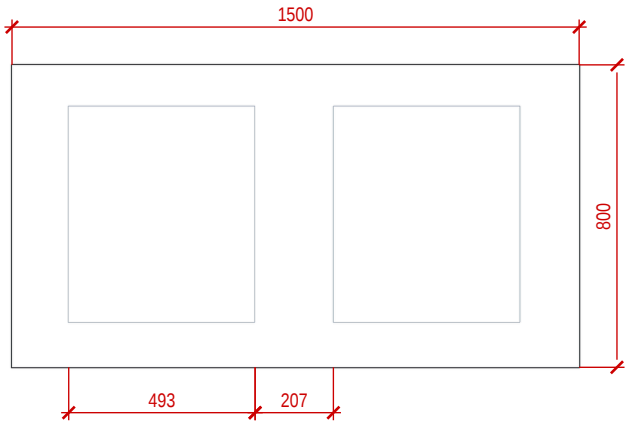
- Balandlik 500 mm: H3C + AMS 3H 1016 mm — ustki qismi ~1,5 m da, AMS qopqog‘i va filament almashtirish qulay.
- Tayyor stollar bu balandlik va 80 kg yuk uchun kam uchraydi.
- Printerlar orasida ~200 mm bo‘sh joy — havo aylanishi va yon panellarga kirish.



Oldidan (A)



Yondan (B), chapda — old



Ustidan (C), pastda — old

H3C stoli — chizma	
3D printing ferma · mebel bukleti · o'lchamlar mm	M 1:20 (A4) · varaq 6

2 H3C stoli — kesish, xarid, yig‘ish

Kesish ro‘yxati

Poz.	Detal	Material	L, mm	1 donaga	Jami	Izoh
B1	Oyoq	Kv. truba 50×50×3	476	4	4	90°; pastiga 50×50×4 plastina + M12 gayka
B2	Bo‘ylama (tepa va past)	Kv. truba 50×50×3	1400	4	4	90°; tepa 426 mm, past 70 mm sathda
B3	Ko‘ndalang	Kv. truba 50×50×3	700	5	5	tepada 3 ta (chetlar + o‘rta), pastda 2 ta
B4	Oyoq plastinasi	List 50×50×4	50	4	4	M12 gayka payvandlanadi
B5	Qopqoq	Fanera FK 24 mm	1500	1	1	1500 × 800
B6	Pastki polka	Fanera FK 18 mm	1400	1	1	1400 × 700

Nima sotib olinadi

Nima	Aniq talab	Soni
Kvadrat truba 50×50×3, 6 m	jami 11,0 m: 1-truba 4×1400; 2-truba 5×700 + 4×476	2 dona
List po‘lat 4 mm	oyoq plastinasi 50×50 — 4 ta	qoldiq
Gayka M12 + sozlanadigan oyoq M12	rezina tovonli, ≥ 100 kg	4 + 4
Fanera FK 24 mm	qopqoq 1500 × 800	1 list
Fanera FK 18 mm	polka 1400 × 700	1 list (yarmi)
O‘ziburar shurup 4,8×38	har 300 mm	40
Gruntovka + emal	printer stoli bilan bir xil rang	stol bilan birga

Yig‘ish tartibi

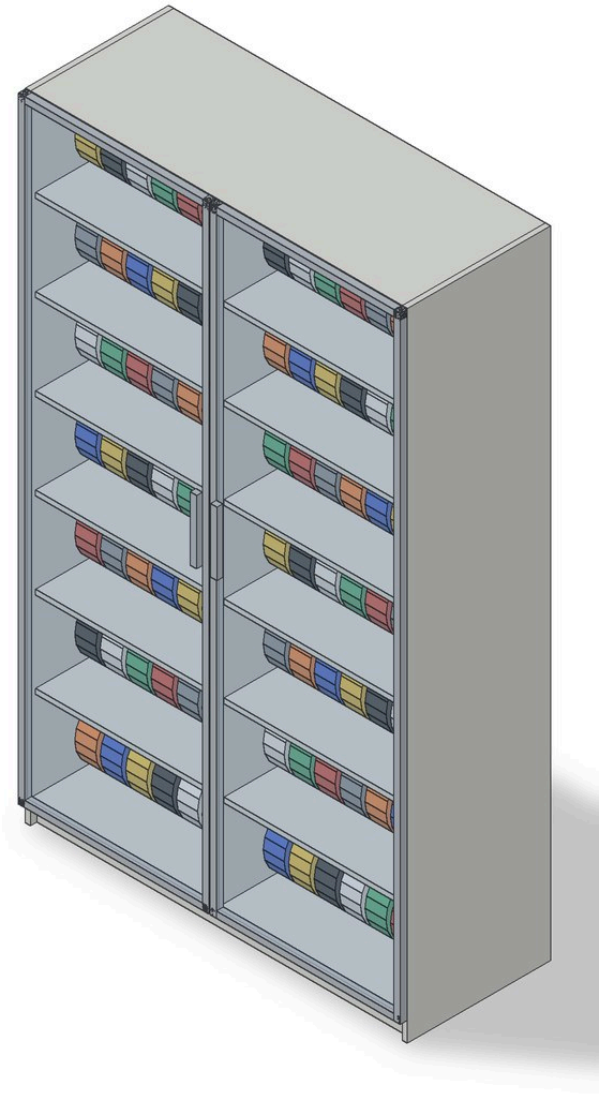
1. Kesish: B1 4 ta, B2 4 ta, B3 5 ta.
2. Ikki yon ramka: 2 oyoq + 2 ko‘ndalang (tepa 426, past 70 mm sathda). Diagonal farqi ≤ 2 mm.
3. Yon ramkalarni bo‘ylamalar (B2) bilan ulang, tepaga o‘rta ko‘ndalang (B3) qo‘shing.
4. Oyoq plastinalari (B4), tozalash, bo‘yash.
5. Qopqoq (B5) va polka (B6) ni shurup bilan qoting; qirralarni laklang.
6. Joyida tekislang; H3C larni orqa chetdan 110 mm (old chetdan 119 mm), oralig‘i 207 mm qilib qo‘ying.

Qabul qilishda tekshiring

- Qopqoq tekisligi ≤ 1 mm/m.
- Ustiga chiqib (≈ 80 kg) bosganda qimirlamaydi, egilmaydi.
- Hech qanday o‘tkir qirra yo‘q.

3 Quruq filament shkafi

Buyurtma · mebelchi + oyna ustaxonasi · 2 dona

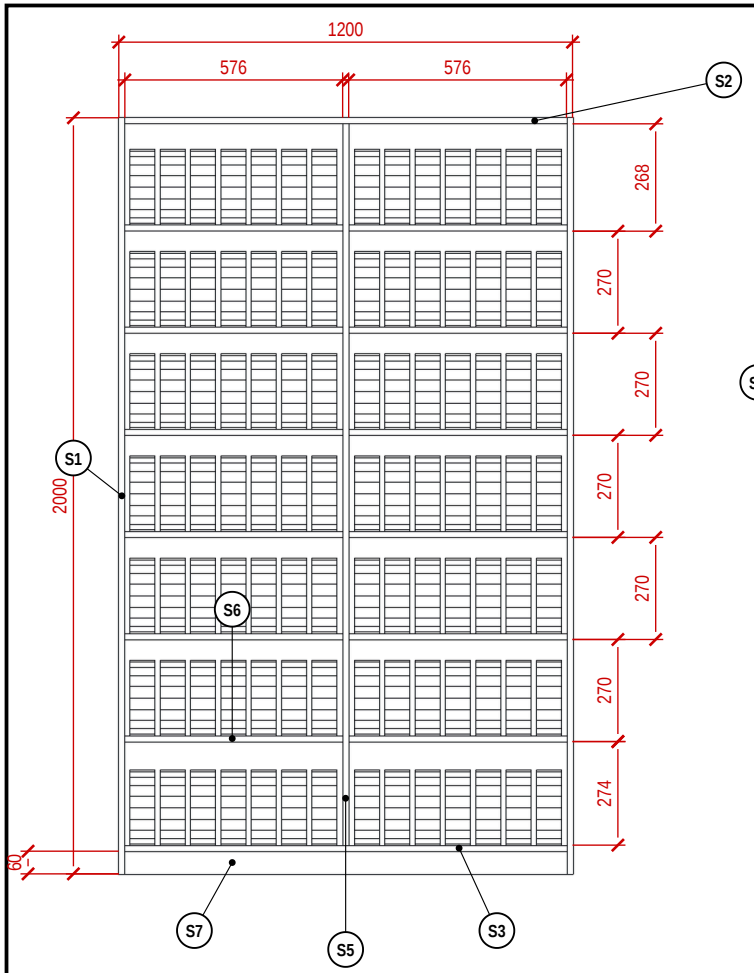


Render: 98 ta g‘altak, o‘rta to‘siq, alyumin ramkali oynali eshiklar.

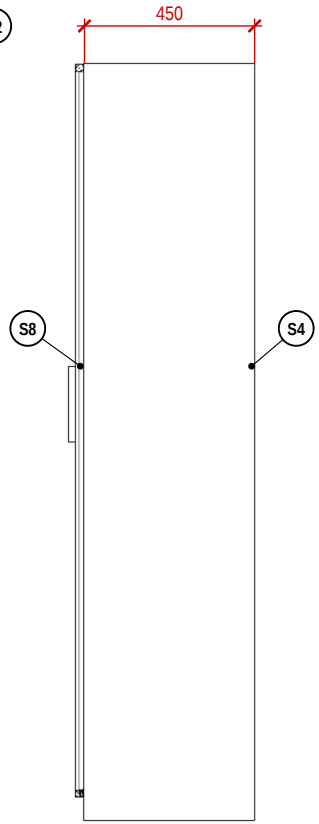
Soni	2 dona
Gabarit	1200 × 450 × 2000 mm
Sig‘imi	7 qavat × 2 ustun × 7 g‘altak = 98 g‘altak (1 kg, Ø200 × 66 mm) — g‘altaklar kitobdek tik turadi
Korpus	LDSP 16 mm, o‘rta to‘siq; polkalar 576 × 418 (egilmasligi uchun oraliq 576 mm)
Eshik	2 ta alyumin ramkali oynali eshik (oyna 4 mm), perimetr bo‘ylab EPDM zichlagich
Namlik	silikagel 2 kg (indikatorli) + 2 ta raqamli gigrometr; maqsad ≤ 20–30 %
Kim yasaydi	mebelchi (korpus), oyna ustaxonasi (alyumin eshik)

Nega aynan shunday

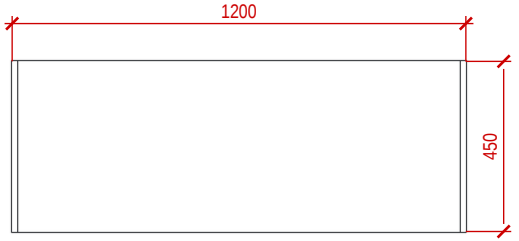
- Filament (ayniqsa PETG, TPU, PA) havodan namlik oladi — germetik shkaf va silikagel bosma sifatini saqlaydi.
- 1168 mm uzun polka g‘altaklar og‘irligidan egilib qolardi — o‘rta to‘siq oraliqni 576 mm ga qisqartiradi.
- Oynali eshik: eshikni ochmasdan qoldiqni ko‘rish mumkin — germetiklik buzilmaydi.
- 2 m balandlik: devorga anker bilan mahkamlanadi (ag‘darilmasligi uchun).



Oldidan, eshiksiz (A)



Yondan (B), chapda — old



Ustidan (C)

Polka tutqichlari uchun Ø5 teshiklar, qadam 32 mm, 37 mm chetdan.

G‘altaklar 80 mm qadamda, 7 ta har polkada (Ø200 × 66).

Orqa devor (S4) yonlarga va polkaga silikon bilan germetiklanadi.

Devorga 2 ta burchak bilan mahkamlang (ag‘darilmasin).

Quruq filament shkafi — chizma

3D printing ferma · mebel bukleti · o‘lchamlar mm

M 1:20 (A4) · varaq 9

3 Quruq filament shkafi — bichish, xarid, yig‘ish

Bichish ro‘yxati

Poz.	Detal	Material	L, mm	1 donaga	2 shkafga	Izoh
S1	Yon devor	LDSP 16	2000	2	4	2000 × 450; old qirrasi PVX 2 mm
S2	Tepa	LDSP 16	1168	1	2	1168 × 450; old qirrasi PVX 2 mm
S3	Pastki (dno)	LDSP 16	1168	1	2	1168 × 434; 60 mm tsokol ustida
S4	Orqa devor	LDSP 16	1908	1	2	1908 × 1168; choklari silikon bilan germetiklanadi
S5	O‘rta to‘siq	LDSP 16	1908	1	2	1908 × 434; old qirrasi PVX 2 mm
S6	Polka	LDSP 16	576	12	24	576 × 418; old qirrasi PVX 2 mm; 6 sath × 2 ustun
S7	Tsokol (old, orqa)	LDSP 16	1168	2	4	1168 × 60
S8	Eshik	Alyumin fasad profili 20 mm + oyna 4 mm	1936	2	4	598 × 1936; oyna 558 × 1896; EPDM zichlagich

Nima sotib olinadi (2 shkafga)

Nima	Aniq talab	Soni
LDSP 16 mm	oq yoki och kulrang (masalan Egger W1000 / U708), 2800 × 2070 list; 1 shkafga ~8,9 m²	4 list
PVX kromka 2 mm	LDSP rangida, old qirralar uchun; 1 shkafga ~17 m	35 m
Alyumin fasad eshik (oyna 4 mm)	598 × 1936, 20 mm profil, oyna ustaxonasida; zichlagich pazi bilan	4 dona
Eshik petlyasi	alyumin fasad uchun, 110°, yumshoq yopiladigan; 4 ta har eshikka	16
EPDM zichlagich D-profil 9×8	eshik perimetri; 1 shkafga ~11 m	22 m
Dastak + magnit zashyolka	alyumin fasadga mos	4 + 4
Konfirmat 7×50 + zaglushka	korpus yig‘ish	80
Polka tutqichi Ø5	metall	96
Silikon germetik (shaffof)	orqa devor choklari	2 tuba
Silikagel indikatorli	2 kg har shkafga, 2 ta ochiq lagan/idishda	4 kg + 4 idish
Raqamli gigrometr	har bo‘limga 1 ta (0–99 % RH)	4
Devor burchagi + dyubel	ag‘darilishdan himoya	4 + 8

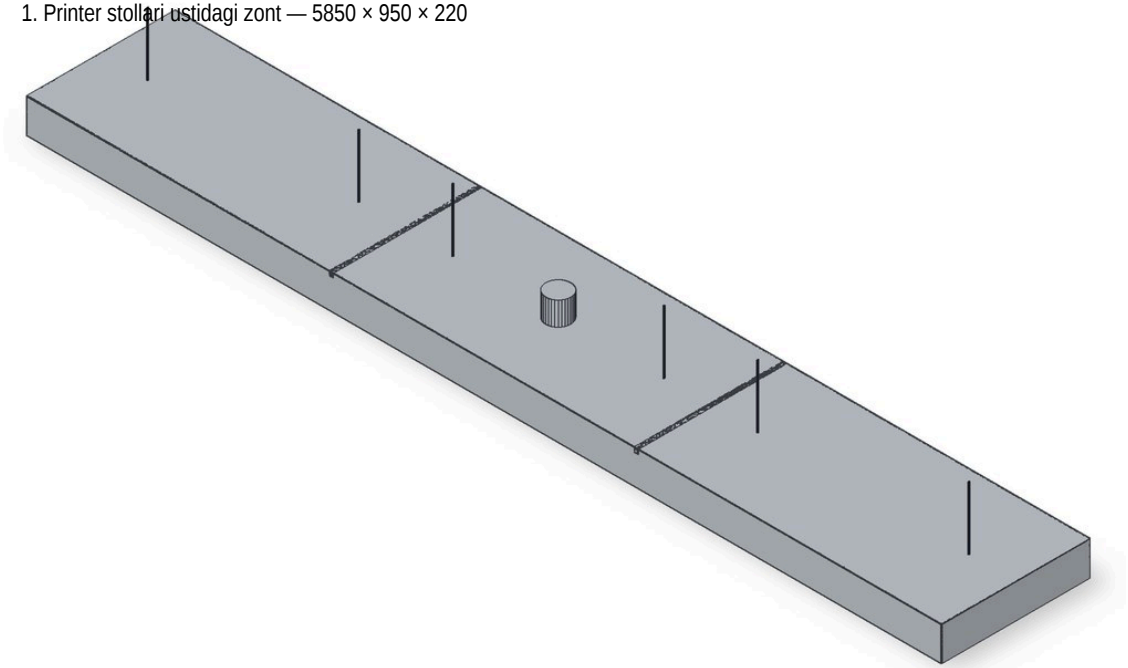
Yig‘ish tartibi

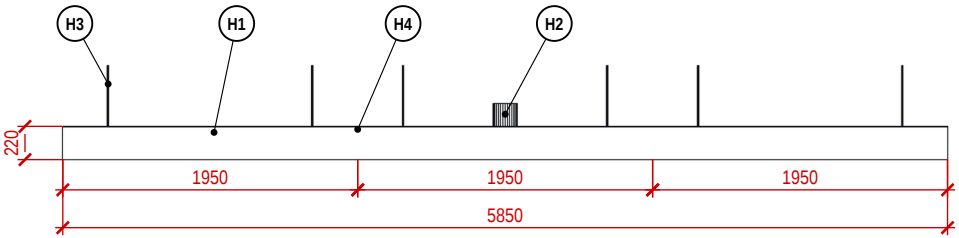
1. Bichish (mebel sexida, chizma va kesish ro‘yxati bo‘yicha), old qirralarga PVX kromka.
2. Teshiklash (prisadka): yon devor va o‘rta to‘siqda polka tutqichi teshiklari Ø5, qadam 32 mm.
3. Korpusni konfirmat bilan yig‘ing: yonlar + tepa + pastki + tsokollar, so‘ng o‘rta to‘siq.
4. Orqa devorni (S4) ichkariga qo‘yib konfirmat bilan qoting, barcha ichki choklarni silikon bilan germetiklang.
5. Shkafni joyiga qo‘yib tekislang, devorga 2 ta burchak bilan mahkamlang.
6. Alyumin eshiklarni osing, EPDM zichlagichni yopishtiring: yopilganda tirqish ko‘rinmasin.
7. Polkalarni joylang, silikagel idishlarini pastki qavatga, gigrometrlarni ko‘z balandligiga qo‘ying.

Qabul qilishda tekshiring

- 24 soat yopiq turgandan keyin gigrometr ≤ 30 % ko‘rsatadi.
- Eshik yopilganda zichlagich butun perimetr bo‘ylab tegadi (qog‘oz qisib tortib ko‘ring).
- Polkaga 7 g‘altak qo‘yilganda egilish ko‘rinmaydi.
- Shkaf devorga mahkam, oldinga tortganda qimirlamaydi.

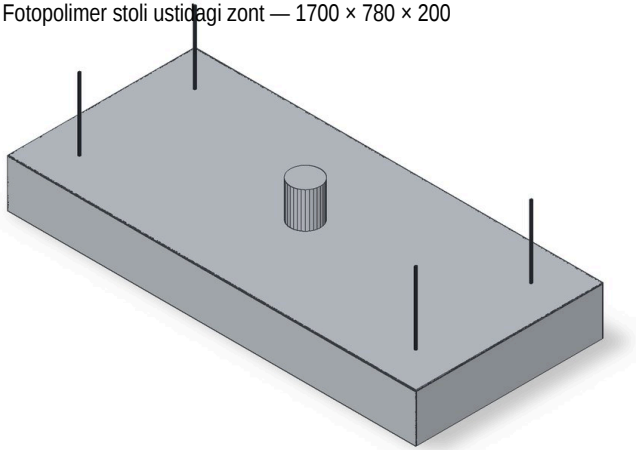
1. Printer stollari ustidagi zont — 5850 × 950 × 220

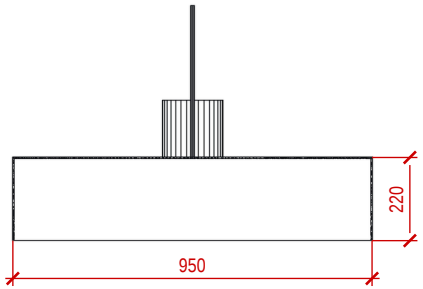




Oldidan (A)

2. Fotopolimer stoli ustidagi zont — 1700 × 780 × 200





Yondan (B)

H1 — korpus, rux tunuka 0,7 mm, pastki qirrasi 10 mm bukilgan; 3 bo'lak 1950 mm.

H2 — patrubok Ø160, o'rta bo'lakda; kanal ventilyatori va teskari klapanga ulanadi.

H3 — osma shpilka M8, 6 ta (har bo'lakka 2 ta), shiftga anker M8.

H4 — bo'laklar ulanishi: 30 mm flanes, M6 bolt har 150 mm, germetik.

Fotopolimer zonti: Ø125 patrubok markazda, 4 ta M8 shpilka;

pastki qirrasi poldan 1900 mm (stol usti 900 → 1000 mm).

Printer zonti: pastki qirrasi poldan 2330 mm,

stol ramkasidan 380 mm yuqori; stollarni to'liq yopadi.

Vytyajka zontlari — chizma	
3D printing ferma · mebel bukleti · o'lchamlar mm	A: M 1:50, B: M 1:20 · varaq 11

4–5 Vytyajka zontlari — xarid va o‘rnatish

Buyurtma · tunukasoz + montaj

Nima sotib olinadi

Nima	Aniq talab	Soni
Rux tunuka 0,7 mm	1250 × 2500 list; printer zonti ~9,5 m² + fotopolimer zonti ~2,5 m²	5 list
Kanal ventilyatori Ø160	400–600 m³/soat (masalan, Vents TT 160 yoki S&P TD-500/160), 220 V	1
Kanal ventilyatori Ø125	150–250 m³/soat (masalan, Vents TT 125), fotopolimer xonasi uchun	1
Havo kanali Ø160 / Ø125	rux, to‘g‘ri bo‘lak + 2 ta 90° tirsak har biriga; uzunligi joyida (~3 m)	1 + 1 to‘plam
Teskari klapan Ø160 / Ø125	tashqi havo qaytmasligi uchun	1 + 1
Tashqi panjara (zontik)	devordan chiqish joyiga, Ø160 va Ø125	1 + 1
Shpilka M8 × 1 m + anker M8 + gayka, shayba	osish uchun (printer zonti 6, fotopolimer 4)	10 to‘plam
Bolt M6×16 + gayka, germetik	bo‘laklarni ulash	30 + 1 tuba
Xomut, alyumin skotch	kanal ulanishlari	to‘plam

Tayyorlash va o‘rnatish

1. Tunukasozga chizmani bering: printer zonti 3 bo‘lak (1950 × 950 × 220), fotopolimer zonti 1 bo‘lak (1700 × 780 × 200), pastki qirrasi 10 mm bukilgan, flanslar 30 mm.
2. Shiftda osish nuqtalarini belgilang: printer zonti markaz chizig‘i orqa devordan 625 mm (150 + 950/2), x = 600, 1950, 2550, 3900, 4500, 5850 mm (xona chap devoridan).
3. Ankerlar va shpilkalarni o‘rnating, bo‘laklarni osib, flanslar orqali M6 bilan ulang, choklarni germetiklang.
4. Pastki qirra balandligini sozlang: printer zonti 2330 mm, fotopolimer zonti 1900 mm.
5. Patrubok → kanal → ventilyator → teskari klapan → devordan tashqariga. Kanal iloji boricha qisqa, tirsaklar ≤ 2.
6. Ventilyatorni alohida avtomatdan, vyklyuchatel orqali ulang (elektrik).

Qabul qilishda tekshiring

- Zont ostida tutun (shamcha) so‘riladi, burchaklarda ham.
- Choklardan havo chiqmaydi, zont tebranmaydi.
- Ventilyator o‘chirilganda tashqi havo qaytib kirmaydi (klapan).

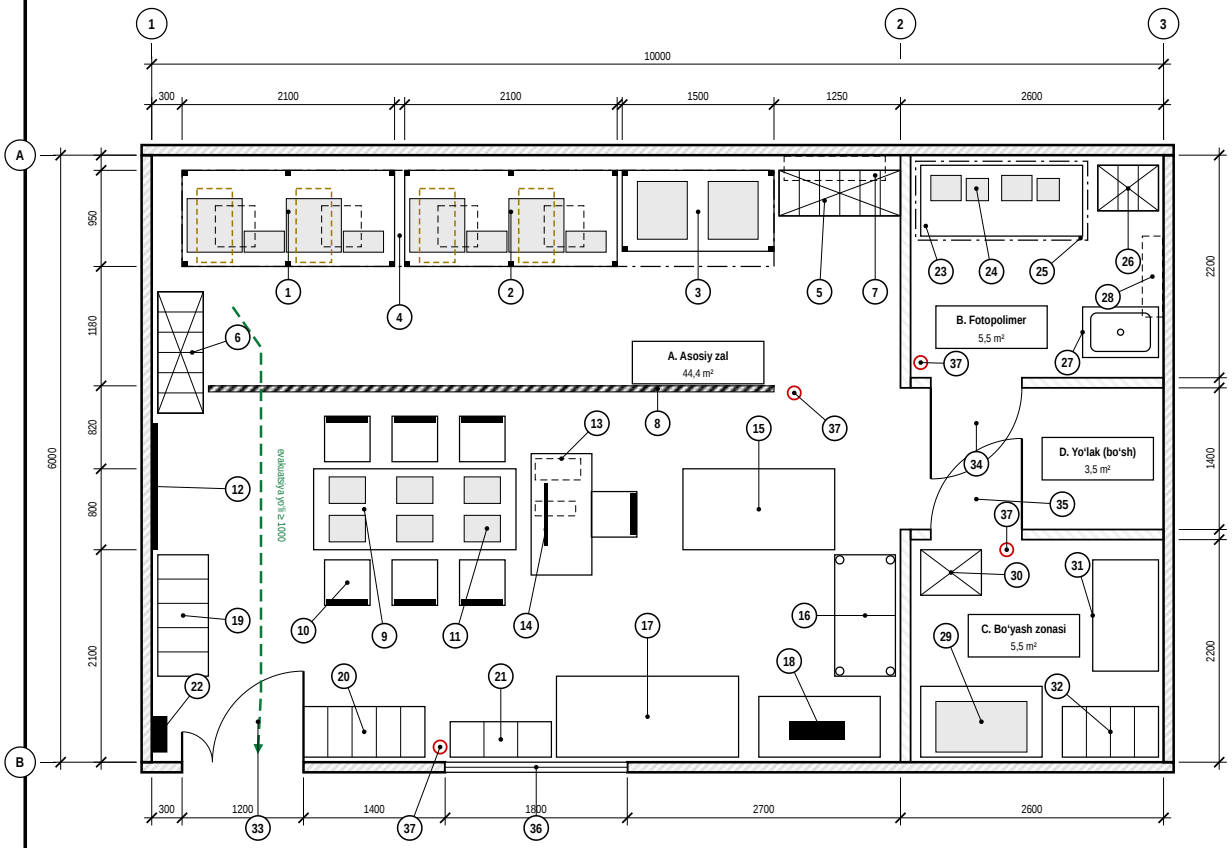
6 Tayyor sotib olinadigan mebel

Do‘kondan standart o‘lchamda; kerakli talablar bilan

Nima	O‘lcham, mm (E × Ch × B)	Soni	Aniq talab
O‘quv stoli	2000 × 800 × 750	1	Metall karkas, qopqoq LDSP/laminat ≥ 25 mm, yuk ≥ 100 kg; 6 noutbuk + rozetka bloki
Stul	45 × 45, o‘tirish 450	7	6 o‘quvchi + 1 mentor; g‘ildiraksiz yoki tormozli
Mentor stoli	1200 × 600 × 750	1	Ostida PC va UPS uchun joy (≥ 500 mm bo‘sh)
Ish stoli (verstak)	1500 × 800 × 900	1	Metall, qopqoq ≥ 25 mm, perfopanel 1500 × 600; yuk ≥ 200 kg
Qadoqlash stoli	1800 × 800 × 900	1	Metall verstak yoki ofis stoli, ostida polka
Servis aravachasi	1200 × 600 × 850	1	2 polka, 4 g‘ildirak Ø75 (2 tasi tormozli), yuk ≥ 100 kg
Farm Manager PC stoli	1200 × 600 × 750	1	Mini-PC, monitor 24", UPS
Tayyor mahsulot stellaji	1200 × 500 × 2000	2	Metall, 5 polka, polkaga ≥ 80 kg; devorga mahkamlanadi
Past stellaj (deraza ostida)	1000 × 350 × 900	1	Metall, 3 polka
Fotopolimer stoli	1600 × 700 × 900	1	Qopqoq HPL yoki zanglamas po‘lat (IPA va smolaga chidamli), metall karkas
Smola va IPA shkafi	600 × 450 × 1800	1	Metall, qulfli, yonuvchan suyuqliklar uchun; ventilyatsiya teshikli
Devor polkasi (fotopolimer xonasi)	1000 × 250	1	Metall, sarf materiallari uchun
Bo‘yash stoli + kamera	stol 1200 × 700 × 900	1 + 1	VEVOR Airbrush Spray Booth (2 ventilyator, 4 LED, 1,8 m shlang) — faqat suv asosli akril bilan; aerozol va solventli bo‘yoq taqiqlangan
Bo‘yoq shkafi	600 × 450 × 1800	1	Metall, qulfli: akril bo‘yoqlar, IPA, tozalagich
Quritish stellaji	950 × 500 × 1800	1	Setkali polkalar (havo o‘tadi)
Silliqlash stoli	650 × 1100 × 900	1	Metall, mini chang so‘rgich ulanadi
Antivibratsion oyoqcha	50 × 50 × 10	40	Rezina, har printerga 4 ta
TV kronshteyni	55" uchun, VESA 400×400	1	Devorga, pastki qirrasi 950 mm

O‘lchamlar xona rejasidagi joy bo‘yicha: kattaroq olinsa yo‘lak (≥ 1000 mm) va eshiklar torayadi. Joylashuvi — oxirgi varaqdagi rejada (raqamlar bilan).

Jihozlar joylashuvi — reja, +0.000



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)

№	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

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 **—**