GarageBot3D™ Euro

Medium format FGF / FFF conveyor 3D printer

Printing large parts in-house out of your budget? No more.

We build our GarageBot3D printers to fit in where they belong — in garages, workshops and studios. It's a versatile and robust heavy-duty machine of an original design, designed for low-cost, high-volume polymers and composites. For a filament and pellet extrusion machine that can print meters-long parts, it's low upfront and running costs will suprise you — as will it's capabilities.

LOW UPFORNT COSTS

We designed this machine from the ground up to be scalable in a sub-industrial manufacturing environment, also cost-wise. Meaning, it has to deliver, but at the reasonably lowest price point. We think it does.

LOW COST PER PART

Using industrial polymer pellets — or even recycled polymer compunds — radically cuts down the cost per part compared to 3D printing filaments. This saves you money any time you hit print, and enables more material versatility.

LOW RUNNING COSTS

Cut your own printbeds from standard plywood. Most parts are industry standard. There are no air compressors for feeding. Everything is bolt-on and accessible. There are cut corners, but not where it matters.

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Printing technology / extruders / materials
- Fused Filament Fabrication (FFF)
  ProFabb FX2 filament extruder
  2.85mm thermoplastic filament
  Nozzles 1–2,85mm, up to 300 °C
  or / and
- Fused Granulate Fabrication (FGF)
  ProFabb GX5 screw extruder
  Pelletized thermoplastic materials
  Fraction up to 5mm
  Nozzles 2–5mm, up to 400 °C
- Max. toolhead weight: 20 kg

Motion modes and build volume
- Cartesian / swing bed — 0° layers
  X – 800 mm
  Y – up to 1500 mm / up to 40kg
  Z – 750mm
  manually switchable to
- Conveyor — 45°/60° layers (infinite Y axis)
  X – 800 mm
  Y – up to 3000* mm / up to 60kg
  Z – 450 mm (45°) / 600 mm (60°)
* With roller extensions

Machine design and kinematics
- Powder coated steel frame
- Forklift-liftable
- Leadscrew drive on X and Z axis
- Automatic Z axis leveling
- LED illuminated build area

Productivity
- Up to 0.8 kg/h with FX1 2.85 filament extruder
- Up to 2.5 kg/h with FX5 pellet extruder

Build plates
- Build plate width: 1000 mm
- Build plate length: 600-3000 mm
- Recommended build plate thickness: 15–25 mm
- Recommended build plate material: coated plywood / other materials possible

Machine dimensions (w x d x h)
- Transport/storage: 1200x800x1500 mm
- Operation: 1200x3500x1500 mm
- Weight: 100 kg
- Fits / ships on an 1200x800 mm Euro pallet

Operation and software
- Built-in touchscreen
- Klipper firmware
- Remote monitoring
- Print file format: G-code
- AI powered print monitoring
- 3DOptimizer full access included
- WIFI / LAN connection for print file upload

Power requirements
- Max: 2000 W, 1 phase, 220V

Regulatory compliance
- CE, WEEE

Ambient conditions
- Operating ambient temperature:
  15-35 °C, 10-90% RH

Optional accessories
- Roller extensions for long part printing in 45° conveyor mode
- ProFabb FX2 2.85mm filament extruder
- Nozzles for filament extruder
- ProFabb GX5 pellet extruder
- Nozzles for pellet extruder
- Enclosed printing area kit
- Print bed heating kit
- Cupholder for two cups / cans

Optional services
- On-site installation and training
- On-site maintenance
- Extended warranty / SLA

PROFABB