GarageBot 3D

MEDIUM FORMAT PELLET EXTRUSION 3D PRINTER

MADE BY PROFABB

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

Our GarageBot 3D printers are built to fit in where they belong — in garages, workshops and studios. It's an original design, built for low-cost, high-volume polymers and composites. For a 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 UPFRONT COST
From the very start, this machine is designed to be scalable in a sub-industrial manufacturing environment, with a focus on low upfront costs, low running costs and thus low cost per part.

LOW COST PER PART
Polymer pellets and reclaimed pelletized polymers can radically cut the cost per part compared to other 3D printing methods — savings that accumulate any time you hit print.

LOW RUNNING COSTS
Most parts are industry standard. Everything is bolt-on and accessible. Cut your own printbeds from standard plywood. The GarageBot is designed for the real world.

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Motion modes and build volume
- Cartesian / swing bed — 0° layers
  X – 800 mm
  Y – up to 2000 mm / up to 80kg
  Z – 1000 mm

manually switchable to
- Conveyor — 45° layers (infinite Y axis)
  X – 800 mm
  Y – up to 80kg, part length dependent on printbed length and roller extensions
  Z – 700 mm (45°)
- Max. toolhead weight: 20 kg

Printing technology & materials
- Fused Granulate Fabrication (FGF)
- Profabb FGX pellet extruder
  Pelletized thermoplastic materials
  Fraction up to 5mm
  Nozzles 3 mm and 5mm, up to 400 °C
- Up to 5 kg/h with Profabb FGX pellet extruder
- Custom extruders / toolheads possible

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
- Mobility wheels

Build plate
- Build plate width: 880 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: 1200x800x1700 mm
- Operation: 1200x3000x1700 mm
- Weight: 250 kg
- Fits / ships on an 1200x800 mm Euro pallet

Operation and software
- Built-in touchscreen
- Klipper firmware
- Remote monitoring
- Print file format: G-code
- WIFI / LAN connection for print file upload
- USB memory stick support

Power & connection requirements
- 1 phase 230 V 12 A
- Compressed Air min 4 Bar

Regulatory compliance
- CE, WEEE

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

Optional accessories
- Roller extensions for longer part printing in conveyor mode
- Print bed heating kit
- FFF 2,85 mm extruder for filament printing capability

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

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