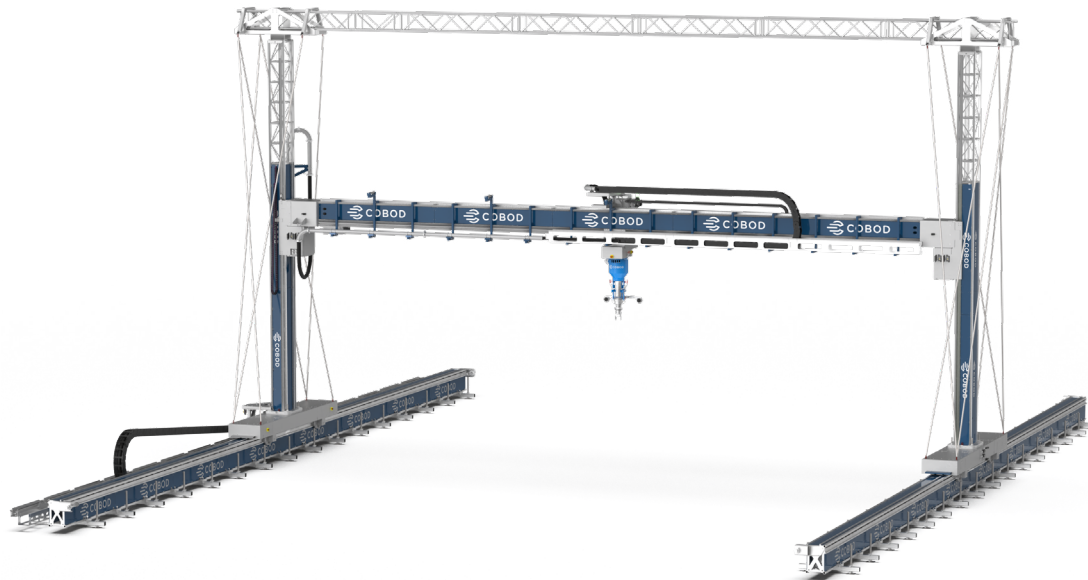


BOD3 3D Construction Printer

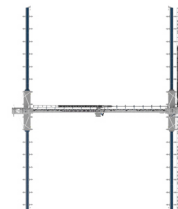
Built for Scalable, Repetitive, and Efficient Low-Rise Construction



Front view



Side view



Top view

The BOD3 is COBOD's most dynamic 3D construction printer, engineered for high mobility, continuous production, and efficient on-site operations. Based on the proven BOD2 system, it introduces a ground-based track configuration that enables linear movement across multiple structures without disassembly, making it especially well-suited for large-scale, low-rise construction developments such as residential neighborhoods and infrastructure elements.

The printer supports a wide range of 3D printable materials but stands out for its ability to print with real concrete, enabling stronger structures, lower CO₂ emissions, and use of locally-sourced raw materials. Its system design incorporates COBOD's DN75 Advanced Hose Management System (AHMS) for high-throughput material delivery and a standalone Operational Stand for improved site coordination. Whether deployed in remote regions or active construction zones, the BOD3 is built to maintain momentum across multi-structure sites.



Ground-Based Track System for Continuous Multi-Structure Printing

The BOD3 moves along a ground-based track system, enabling uninterrupted printing across multiple structures without disassembly. Y-axis modules can be extended forward to support seamless, sequential builds and minimize site downtime.



Efficient Material Handling with DN75 AHMS

The BOD3 is equipped with COBOD's DN75 Advanced Hose Management System (AHMS), designed to handle large material volumes and aggregates up to 12 mm (0.47 in). The system ensures consistent material delivery and reduces manual hose handling.



Optimized for Low-Rise, High-Volume Projects

With its linear movement and high material throughput, the BOD3 is optimized for low-rise construction, including multi-unit housing developments and infrastructure elements, where speed, repeatability, and efficient site logistics are critical.



Standalone Operational Stand for Site Efficiency

The control system is housed in a standalone Operational Stand, detached from the mechanical printer structure. This setup improves site visibility, centralizes system access, and streamlines coordination in dynamic jobsite conditions.

Technical Specifications

Mechanical and Operating Parameters

Max. Printable Area (PA)	11.91 m 39.07 ft (X-axis) Unlimited (Y-axis) ¹ 8.3 m 27.23 ft (Z-axis)
Max. Installation Area (IA)	16.75 m 54.95 ft (X-axis) Unlimited (Y-axis) ¹ 11.8 m 38.71 ft (Z-axis)
Weight	Depends on the printer configuration. For further information, please contact your regional sales representative.
Max. Noise Level	70 dB(A)
Recommended Operating Temperature	5 - 45 °C 41 - 113 °F
Emergency Stops (E-stops)	The printer is equipped with a total of 12 E-stops, located on the printer to ensure maximum accessibility and safety during operations.
Motor Movement System	The system utilizes servo motors, electric motors that convert electrical power into mechanical power, providing precise control of position, velocity, and acceleration with feedback sensors for high-performance motion control.

Electrical Requirements

Current	32 A 30 A
Frequency	50 Hz 60 Hz
Voltage	380 - 480 V (3 phases + N + PE (WYE))

¹ The Y-axis length of the BOD3 3D printer is virtually unlimited, thanks to its ground-based track system, which enables continuous movement along the Y-direction. Repositioning and movement of the printer must comply with product specifications, AHMS limitations, and site-specific constraints. For more information, please contact your sales representative.



Printing Specifications

Printer Setup Time	Depends on the printer configuration. For further information, please contact your regional sales representative.
Recommended Team	1 printer operator (PO), 1 printer operator assistant (POA) 1 material operator (MO), 1 material operator assistant (MOA) (Hand-on helpers are also recommended as supporting team members)
Layer Height ²	Up to 75 mm 2.95 in
Layer Width ²	Up to 500 mm 19.69 in
Max. Aggregate Size	12 mm 0.47 in
Hose Compatibility	DN75
Max. Printing Speed ³	250 mm/s 9.84 in/s
Printhead Throughput	1.5–3.6 m³/h 52.97–127.13 ft³/h
Fibers	Steel fibers can be added to the concrete mix depending on the size of the nozzle.

Control System and Connectivity

Operational Interface	COBOD Web Control Interface (Duet)
Setup and Calibration Software	SoftNA
Supported Browsers	Microsoft Edge, Google Chrome, Mozilla Firefox, and other browsers compatible with Windows operating systems.
Network Connections	Wi-Fi or LAN

² Layer height and width depend on the size of the nozzle.
³ Printer speeds are capped at 250 mm/s (9.84 in/s) by default, but higher speeds can be unlocked upon customer request.