3D Concrete Printing for Construction

X-Hab 3D's cutting-edge, mobile 3D Concrete Printing (3DCP) systems revolutionize commercial construction by automating the building process. Whether it's residential, non-residential, prefab, or infrastructure projects, our technology delivers speed, cost savings, and sustainability.

Why X-Hab 3D?

- **Faster Construction:** Build up to 70% faster than traditional methods.
- **Cost Efficiency:** Significant reduction in labor, material costs, and waste.
- **Enhanced Durability:** Structures are fire, storm, pest, and impact-resistant.
- **Design Freedom:** Create complex, customized structures with ease.
- **Sustainability:** Lower carbon footprint and energy-efficient solutions.

Building Smarter, Faster, Stronger

- **3DCP Capabilities:** Constructs vertical structures up to 24' high and 14' below grade with unlimited width and length.
- **Rapid Setup:** Ready for operation in less than 2 hours with a 2-3 person crew.
- **Portability:** Transported fully assembled via heavy-duty pickup and trailer.
- **Material Flexibility:** Compatible with concrete blends up to 3/8" aggregate.
- **Multi-Functionality:** Optional tool changer enables gripping, welding, spraying, and scanning and other construction tasks.



Designed for Today's Challenges

X-Hab 3D addresses the skilled labor shortage, supply chain delays, and rising costs with automated solutions that keep projects on track and under budget.

📍 **Website:** www.xhab3d.com

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Versatile Construction Applications

Residential Construction:
- Customizable single-family and multi-family homes.

Non-Residential Construction:
- Office buildings, retail spaces, and warehouses.
- Parking structures and industrial facilities.
- Pipes, manholes, and water-retaining structures.

Infrastructure:
- Retaining walls, culverts, and utility chambers.

Prefab Construction:
- Modular components for faster assembly on-site.
- Seamless integration with traditional construction methods.

The X-Hab 3D Advantage

Faster Time-to-Market: Accelerate project completion timelines.
Lower Costs: Cut labor, material, and waste expenses.
Higher Quality: Durable structures with enhanced resistance to extreme conditions.
Innovative Design: Unlock creative possibilities for unique, customized projects.
Environmental Benefits: Reduce carbon emissions and energy consumption.



We're with You Every Step of the Way

Training: Comprehensive hands-on training for operation and maintenance.
Warranty: Full coverage for manufacturing defects.
24/7 Support: Round-the-clock virtual technical assistance.

About X-Hab 3D

We are pioneers in 3D concrete printing for the commercial construction industry, empowering builders with advanced technology to achieve better, faster, and more sustainable results.

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X-Hab 3D: System Specs

Performance

Print speed	0 to 1.97 feet / s (304 mm / s)	**Position location accuracy**	1/4 inch (6.4 mm)
Material flow rate	1.8 cubic yards / hr.	**Path accuracy**	1/8 inch (3.2 mm)
Maximum aggregate size	3/16 inch with M-Tec 3DCP+; up to 3/8 inch with larger mixer / pump	**Layer height - range**	1/2 to 1.5 inches (12.7 to 38.1 mm)
Printable area	Unlimited width & length; 24 feet height and 14 feet below grade	**Layer width - range**	3/4 - 3.0 inches (19.0 to 76.2 mm)
Horizontal print reach	16 feet (4.9 meters)	**Compatible 3DCP mixes**	Designed to work with all types of 3DCP mixes within aggregate limits
Maximum reach height (robotic arm and lift mechanism)	24 feet (7.3 meters)	**Time to set up / take down**	Approximately 2 hours
Maximum reach below grade	14 feet (4.3 meters)	**People needed to set up and operate**	2
Material feeding	Standard is manual load bags to silo, compatible with pneumatic options		

Mobile System Dimensions / Operating Characteristics

Mobile platform	12 x 6 x 8 feet	**Maximum travel incline**	45% grade
Robot arm axes	6 baseline, optional 7	**Operating temperature range**	45-90 degrees F.
Mobile 3DCP weight	12,860 lbs.	**Maximum operating humidity**	90%
Driving speed	3 mph	**Transport temperature range**	14 - 122 degrees F.
Diesel generator size	38 kW	**Remote control**	Mobile/mixer/tool path
External power supply	3 phase, 480V, 60Hz	**Optional broadband**	Secure links
Leveling capability	Self-leveling outriggers		