



• CO-DEVELOPED BY TVASTA × 14TREES

# Cedar.

THE FIRST **AI-READY** 3D CONCRETE PRINTER

A modular, large-format 3D concrete printing system engineered to make construction-scale printing faster, more cost-effective, and globally deployable.

MODEL CEDAR  
FORMAT 10 M × 240 M<sup>2</sup>  
[www.cedar3dprinter.com](http://www.cedar3dprinter.com)

# The economics of 3D construction, **re-engineered.**

Cedar was built around the constraints that have kept 3D printing in construction from scaling. We changed the material, the frame, and the brain - to deliver project economics that make industrial deployment viable.

CAPITAL

/ 01

# 50 %

Lower capital investment for construction-scale 3D printing.

MATERIAL

/ 02

# 5 ×

Reduction in material costs versus proprietary-mix systems.

AGGREGATE

/ 03

# 12 mm

Engineered to print real concrete with aggregates up to 12 mm.

FOOTPRINT

/ 04

# 240 m<sup>2</sup>

Extendable print footprint with printing heights up to 10 m.

# One system, three integrated modules.

## MODULE 01 - PRINTER

CDR-P10

### The Printer

Portal-frame gantry engineered for continuous, large-format printing. Advanced hose management and integrated controls deliver adaptable performance across project geometries.

PRINTING HEIGHT	10 m
EXTENDABLE LENGTH	20 m
PRINT SPEED (UP TO)	250 mm/s
FRAME	Portal System
HOSE PIPE	3 in
HOSE MANAGEMENT	Advanced

## MODULE 02 - BATCHING

CDR-B25

### Mini Batching Plant

Precision-engineered for on-site 3D concrete printing - consistent dosing, automated cycles, and reliable process control for uninterrupted production.

PAN MIXER CAPACITY	250 L
PRODUCTION RATE	2.5 m <sup>3</sup> /hr
MIX DESIGN MEMORY	25
PRODUCTION CYCLE	Auto
HOPPER · AGGREGATE	2 × 1.7 m <sup>3</sup>
SILOS · BINDER	2 × 1.7 m <sup>3</sup>

## MODULE 03 - PUMP

CDR-D60

### Double-Piston Pump

High-performance delivery for 3D printable concrete - a consistent, controlled flow that supports large-scale, continuous printing operations.

PISTONS	2 × Ø150 / 500 stroke
HOPPER CAPACITY	250 L
MATERIAL TRANSFER	5 m <sup>3</sup> /h
AGGREGATE SIZE	12 mm
DELIVERY DISTANCE	100 m
WORKING PRESSURE	60 bar

Cedar is a modular 3D concrete printing system built for large-scale on-site construction - designed for continuous operation, with integrated material handling and advanced software running end to end.

# Three decisions that change **project economics.**

Cedar changed three things at once - the material it prints with, the frame that carries it, and the intelligence that runs it - so that construction-scale 3D printing can finally be deployed at the cost basis the market needs.

## 01 / Material

### **Print with real concrete.**

Move beyond expensive mortars.

- Compatible with conventional concrete mixes
- Enables local sourcing of materials
- Removes dependency on proprietary-mix systems

## 02 / Format

### **Engineered for scale.**

Large format. Real impact.

- Up to 10 metres of printing height
- Extendable footprint up to 240 m<sup>2</sup>
- Equivalent build volume at meaningfully lower capex

## 03 / Intelligence

### **AI & material intelligence.**

Powered by the 14Trees AI Companion.

- Optimises mixes using locally available materials
- Balances cost, strength and sustainability
- Trained on thousands of mix combinations

■ ACTIVE GEOGRAPHIES

# Global expertise. **Real-world** execution.

Cedar is built on years of execution with clients, projects, and partners worldwide - supported by offices across the United States, Europe, India, and the Middle East & Africa.

United States	AMER	India	APAC
Spain	EU	Switzerland	EU
Kenya	MEA	Middle East	MEA



# End-to-end support. Worldwide.

Cedar includes support across every phase of implementation - from initial setup to full-scale construction delivery.

01

## Training & Deployment

In-depth on-site training that transfers operational knowledge, troubleshooting, and integration practice to your team.

02

## Design Services

Design consultancy for projects and cost modelling - translating intent into print-ready, buildable geometry.

03

## Permits & Certifications

Regulatory consultancy to obtain permits and certificates for local operations and construction.

04

## Operational Support

On-site guidance and execution support alongside your team through the lifetime of a project.

05

## Material Development

Printable mix development based on local raw materials - optimised for performance, cost and sustainability.

■ BUILT FOR INDUSTRY LEADERS

# For developers, contractors and **infrastructure leaders.**

Whether you lead real-estate portfolios, run construction delivery at scale, build national infrastructure, or procure public-sector projects. Cedar enables faster, more efficient construction.

- 
- / 01** Real Estate Developers  
Improve unit economics across residential and commercial developments - without re-engineering existing supply chains.

---

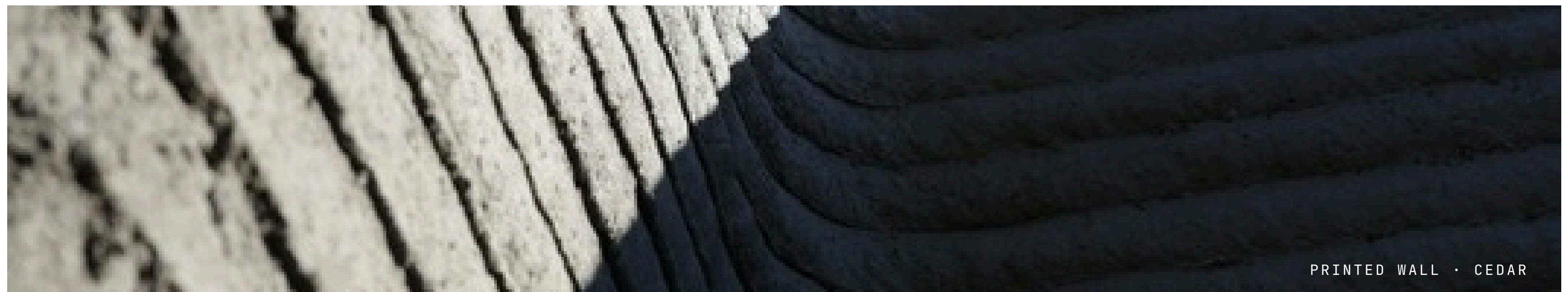
  - / 02** Construction Companies  
Deploy a production-ready system across multiple project sites with predictable throughput and continuous operation.

---

  - / 03** Infrastructure Companies  
Industrial-scale build volumes for structural components and large structures - purpose-engineered for the field.

---

  - / 04** Government & Public Sector  
Scale affordable housing and social infrastructure delivery nationally, with full regulatory and deployment support.
- 



■ GET IN TOUCH

# Let's build the **future** of construction.

India • Managed by Tvasta

Chennai

Tamil Nadu, India

MANUFACTURING & DEPLOYMENT HQ

International • Managed by 14Trees

Americas • Europe • Middle East •  
Asia • Africa

GLOBAL SALES & PROJECT DELIVERY

Connect

[info@cedar3dprinter.com](mailto:info@cedar3dprinter.com)

For technical specifications, deployment proposals and pilot programs.

[www.cedar3dprinter.com](http://www.cedar3dprinter.com)