

MortarMaster

3DCP Robot Printer



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Mobile Robotic Concrete Printer

Overview

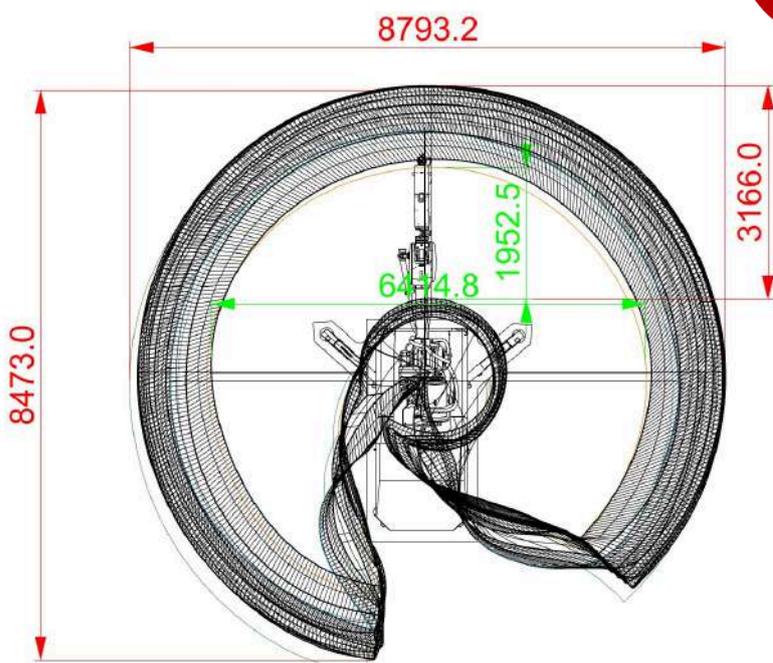
The **MortarMaster 3DCP Robotic Concrete Printer** is a mobile, high-precision robotic printer engineered for large-format concrete printing. With an extended working envelope and construction-ready mobility, the system delivers fast, accurate, and repeatable production for architectural and structural elements.



Key Features

Extended Working Radius

- Horizontal reach: 8,793 cm
- Vertical reach: 8,473 cm
- Clearance height: 3,166 cm
- Internal operating width: 6,414.8 cm
- Inner arm radius: 1,952.5 cm



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Core Capabilities

- Real-time adjustment of layer height, speed, and material flow
- High precision through LiDAR, sensors, and real-time path correction



- High-resolution non-planar printing for curved and freeform structures
- Servo-driven smoothing tool reduces edge irregularities and minimizes finishing requirements



- Integrated curing nozzles for controlled hydration and reduced shrinkage
- Support for localised reinforcement and embedded components through auxiliary tooling



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Machine Dimensions

- Length: 3.2 m
- Width: 1.5 m
- Height: 2.2 m
- Weight: 5,075 kg (with battery) / 4,625 kg (without battery)



System Modularity



Designed as a **modular, open printing platform**, the system can interface with external mixing and pumping units — including your **MAI MULTIMIX-3D** — allowing users to adapt the printing setup to different project requirements.

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