

3D Printing for Street Furniture

Differentiation and Business Opportunities

COSMOS^{3D}

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Industry Transformation



CHALLENGES IN THE STREET FURNITURE INDUSTRY



Customization

Rising demand for solutions tailored to each urban environment.



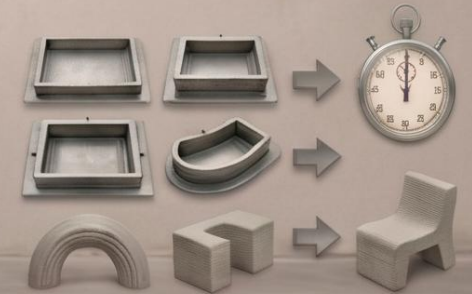
Adaptive Design

Aesthetic and functional integration across diverse urban landscapes.



Sustainability

Reducing waste, carbon footprint, and resource consumption.



Flexibility and Cost

Traditional methods are rigid and costly for short-run production.

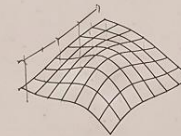
THE OPPORTUNITY



Unprecedented design flexibility

No Physical Molds

Designs are adapted digitally in real time, eliminating the need to manufacture new molds or tooling.



Complex Geometries

Organic shapes and parametric structures that are impossible or cost-prohibitive with conventional methods.



Local Identity

Unique elements for urban projects with a distinct aesthetic or specific spatial requirements.



THE OPPORTUNITY

Efficient Business Diversification

New Markets and Opportunities

Cosmos 3D unlocks new revenue streams beyond street furniture.

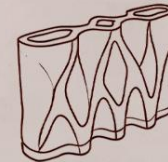


Modular Building and 3D Facades

3D concrete modules for modular housing and customized panels for facades.

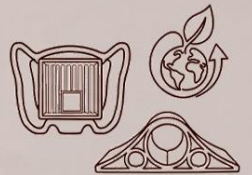


Perimeter Fencing and Outer Walls



Organic shapes 3D walls, combining high aesthetics and durability for plots, residential developments, etc.

Sustainable Public Works



Eco-friendly 3D modules for dog parks, animal shelters, artificial marine reefs, etc.



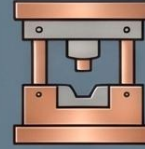
A strategic investment in diversification, not a replacement.

Conventional Method

Design



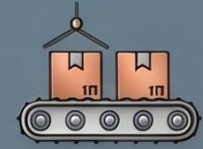
Mold Manufacturing



Adjustments



Production



COSMOS 3D Method

Design



3D Printing



Conventional Method

1. CAD
2. Molds
3. Assembly

✗ Slow Revisions

COSMOS 3D Method

1. Digital Design
2. Rapid Prototyping

✓ Agile Production



Conventional Method



- High-volume and standardized series.



- High dependency on molds.



- Mass production.



- Need for large mold storage space.

- Series cortas con costes elevados.

TOTAL PROFITABILITY
Absorbing special orders without disrupting the main production line

COSMOS 3D Method



- High-volume and customized series.



- Variable geometries without molds.



- Scalable mass production.



- No mold storage required.



- Short runs without losing profit margin.

Implementing 3D molds transforms the cost structure

COSMOS Y: The engine of the new construction paradigm



- High-speed, high-precision engineering



- High precision while minimizing human error.



- Waste minimization



- Adjustable layer height and thickness



- Mold-free direct manufacturing.



- From design to production



- 1 Machine Operator + 1 Assistant

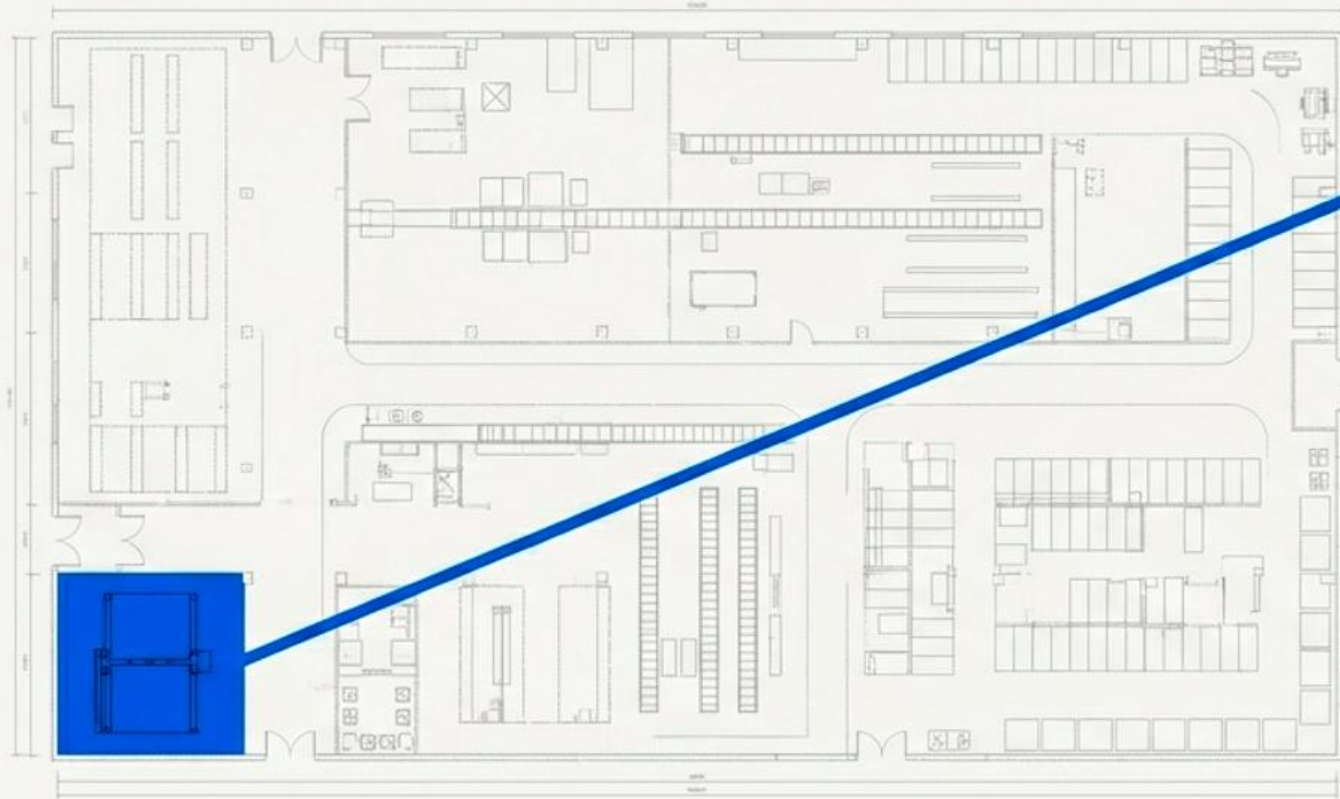


- 24/7 Production



*Click to see
Cosmos 3D technology in action*

Seamless integration: The *Cosmos Fab* concept



Cosmos Fab.

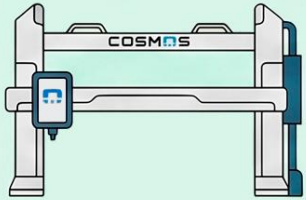
Only 390m² required.

An all-in-one compact solution:

- Printing area
- Silo and material pump system
- Storage zone
- Control unit
- Post-production space

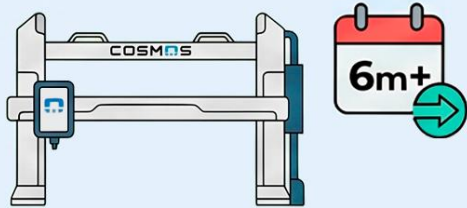
A fully autonomous production unit that integrates into your existing facilities **without disrupting daily logistics.**

Collaboration Options with Cosmos 3D



1) Machine Acquisition

In-house or third-party production. Includes installation, training, and the AI platform.



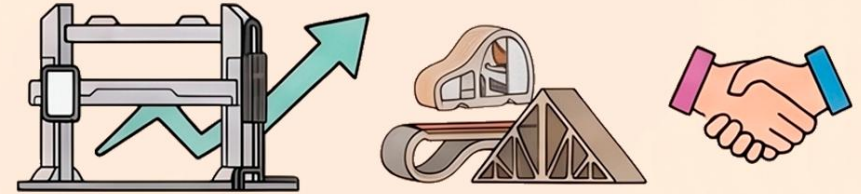
2) Machine Rental

6-month minimum. Includes installation, training, and the AI platform.



3) 3D Module Supply

Supply of 3D precast elements and street furniture from the Cosmos 3D catalog.



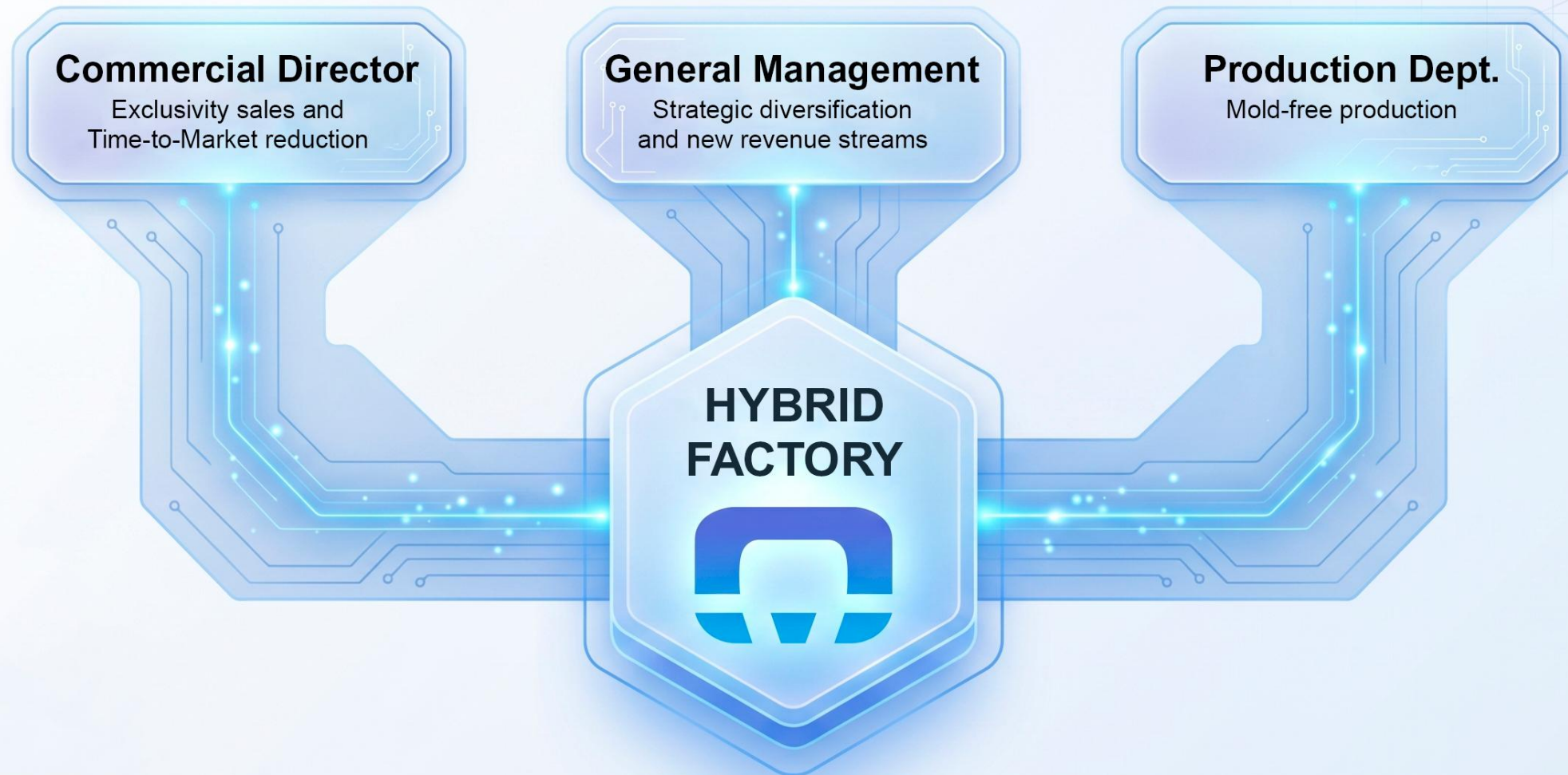
4) Manufacturing and supply of 3D concrete parts + Cosmos 3D machine purchase agreement.

- Design and manufacturing of 3D concrete modules co-created by the client and the Cosmos team, focusing on both street furniture and any of the business diversification options enabled by Cosmos 3D.



- Commitment to acquire a Cosmos 3D machine to boost the street furniture business and expand into markets linked to 3D precast concrete. Throughout the entire process, the client will be supported by the Cosmos 3D team and will have access to its catalog of modules and projects.

Cross-cutting transformation



Operational integration and cross-cutting improvement across all company departments.



**The true bottleneck of industrialized construction is not technology;
it is the lack of a skilled workforce.**

**At Cosmos 3D, we train,
support, and certify.**

Cosmos Academy - Cosmos AI Platform - CaaS Service





Your leading partner.

We design and develop the best **3DCP** technology
to take your productivity to the next level.

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