

The Ukrainian company offers construction 3D printers and specialized software for the mass production of designed wall blocks.

## Summary

Profile type

**Business Offer**

Company's country

**Ukraine**

POD reference

**BOUA20241220008**

Profile status

**PUBLISHED**

Type of partnership

**Commercial agreement**

Targeted countries

• **World**

Contact Person

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Term of validity

**20 Dec 2024**

**20 Dec 2025**

Last update

**20 Dec 2024**

## General Information

### Short summary

The Ukrainian project is looking for partners to enter world markets. We offer equipment and software for the production of wall structures using a special technology at a competitive price. The desired partner is required to invest in an advertising company and open a branch (representative office) to carry out the company's activities in the market of its region.

### Full description

Equipment for the production of blocks for construction according to individual characteristics. Thanks to the decorative surface, they do not require additional decoration, saving time and money. They can be used for the construction of residential buildings, fences, retaining walls, various architectural forms, utility blocks, gazebos and garages. More than 80,000 units have already been sold.

Concrete wall panels are made in the workshop using a 3D printer. The dimensions and shape of the panels are unified according to the conditions of production, logistics and installation. The composition of concrete is selected on the basis of local aggregates and binders. The panels are reinforced with composite reinforcement. Products are transported on pallets using vehicles and lifting mechanisms. Installation is carried out manually by two workers (product weight up to 60 kg). The surfaces of the panels have high adhesion, they can be painted with water-based paints, waterproofing compositions, fixed formwork can be installed in monolithic structures with increased aesthetic

requirements. The technology of connecting nodes of adjacent panels ensures fast installation, allows solving a wide range of tasks with a small assortment of products.

The construction 3D printer "Surfer 3" is designed for printing serial concrete products. It has a double extruder, which allows you to print two products at the same time. The size of the print field of the printer is adjusted according to the conditions of the workshop in which the organization of production is planned. The printer is controlled using an industrial computer and a remote control. The printer is installed by three workers within 10 days

The company's printers are manufactured in Dnipro and Ivano-Frankivsk. In 2021, three more printers were sold abroad.

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#### Advantages and innovations

- Rational use of production resources, minimal equipment downtime compared to alternative 3D printing technologies;
- Print quality control technology guarantees the decorative properties of the resulting product, which allows you to use the surface of the panel as a cladding, reducing costs for decoration and speeding up construction.
- Patented wall panel joint that is difficult to recreate using alternative molding or pressing technologies;
- A printer with a double extruder allows you to speed up and secure the production process. This concept has not previously been used in other construction printing technologies;
- Software with a user-friendly mold library from which you can mold an array of products, simplifying the process of creating a control program (CAM).

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#### Technical specification or expertise sought

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#### Stage of development

**Already on the market**

#### IPR Status

**IPR granted**

#### IPR Notes

**Ukrainian Intellectual Property Institute**

#### Sustainable Development goals

- **Goal 8: Decent Work and Economic Growth**
- **Goal 9: Industry, Innovation and Infrastructure**

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## Partner Sought

#### Expected role of the partner

The company expects its partner (a legal entity or a private entrepreneur) to jointly analyze the market for wall materials in its region and make a business plan. Based on the information received, a branch will be established to sell the equipment in the partner's local market. Costs of organizational processes and advertising are entrusted to the partner. The enterprise provides technical part and production from its side. The profits from the branch according to the business plan are shared equally.

#### Type of partnership

**Commercial agreement**

#### Type and size of the partner

- **SME <=10**
- **SME 11-49**
- **SME 50 - 249**

## Dissemination

#### Technology keywords

- **03009002 - Printed Reel Material**
- **02007002 - Building materials**

#### Targeted countries

- **World**

#### Market keywords

- **09007001 - Construction companies**
- **09007002 - Manufacture of construction materials, components and systems**
- **09004008 - Other manufacturing (not elsewhere classified)**

#### Sector groups involved