

Investment Highlights – Industrial 3D printing

Technology
Leadership



- Highly scalable binder-jetting technology
- Unique printhead technology allows highest volumetric output rate in the 3D printing industry (>420 patents and patent applications)
- Industry leading provider of technology for serial production

Defined
Roadmap for
Profitable
Growth

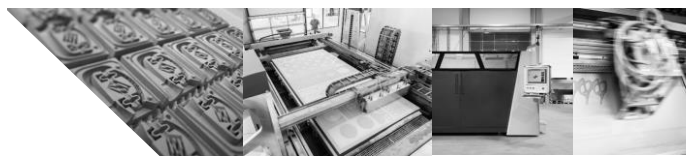


- Starting to commercialize new innovations and 3D printers for additive series-production: VJET X and VX1000 HSS
- Leverage recent investments in additional capacity to meet growing demand

Highly
Seasoned
Executives



- Founder CEO and key inventor of binder-jetting technology with more than 20 years of experience in the 3D printing equipment market and holder of more than 50 patents in the field of 3D printing



We are in the business for additive series production



Situation

New products and components are designed with improved features and properties. Such products and components have complex geometries and/or require sophisticated supply chains.



Problem

With traditional manufacturing alone, these geometries cannot be manufactured. With 3D printing, there is no such limitation.

But in its current form, 3D printing is not yet ready for high-volume, series production because operational costs are too high and the performance too low.



Solution

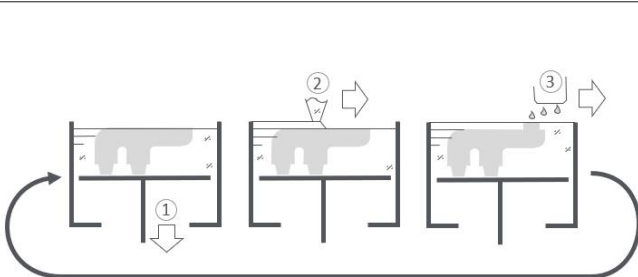
To address the performance issue, we believe we have developed the fastest binder-jetting 3D printers currently available. To reduce the operational costs of our 3D printers, we integrate them into already existing supply chains. We use a hybrid approach to manufacture complex metal parts.



Outlook

We have invested significantly into our IP portfolio and hold over 420 patents and patent applications. We expect to benefit from the increased demand for our solutions for additive series production by commercializing 3D production cells with multiple 3D printers and large volume contracts for 3D printed parts.

Market leading binder-jetting technology



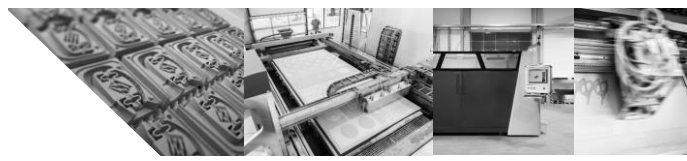
In additive manufacturing, shaped bodies are built up layer by layer. Powder binder/ink jetting repeats the steps:

- 1) Lower the layer
- 2) Coating with particle material such as sand or plastic
- 3) Printing with a binding agent or ink

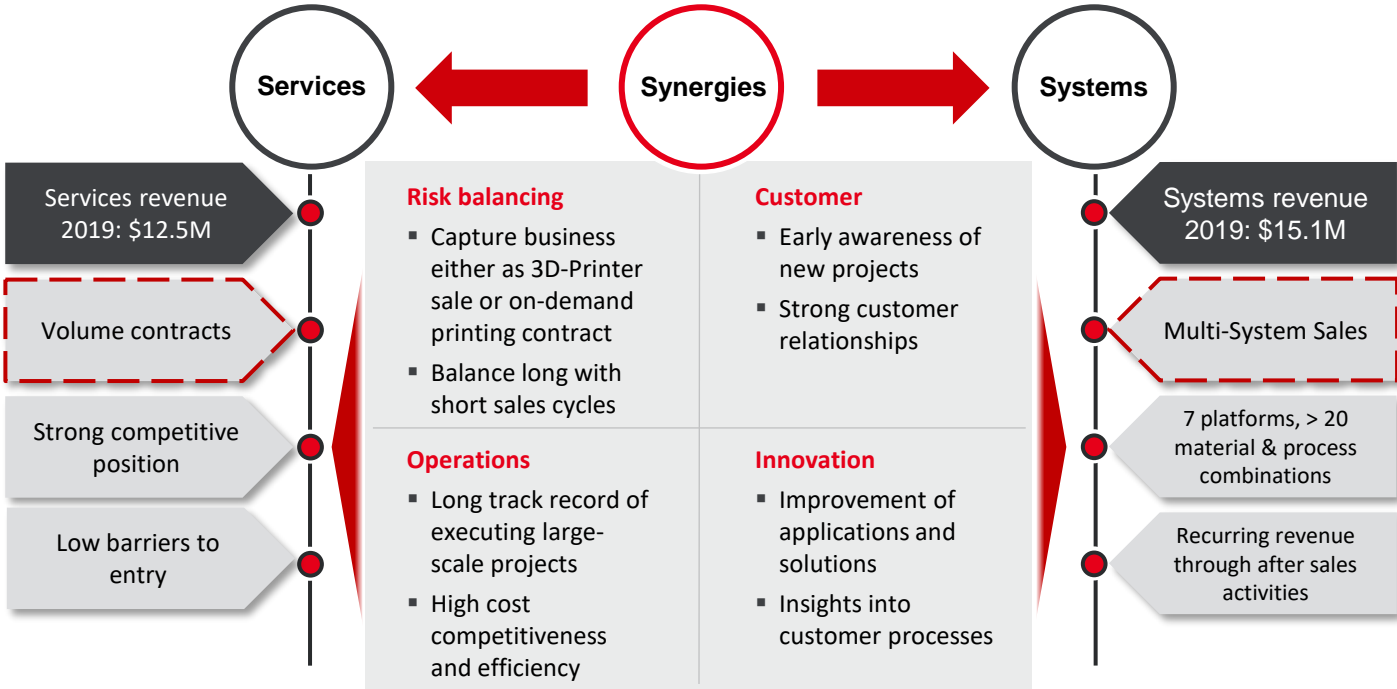


Key advantages as compared to other additive manufacturing technologies:

- > **Scalability: number, size and performance of printheads**
- > **Ready for large-scale manufacturing**
- > **Material diversity: various industrial grade materials**



Integrated business model: capture business either as 3D printer sale (Systems) or on-demand printing contract (Services)



Diversified blue-chip customer base



Applications

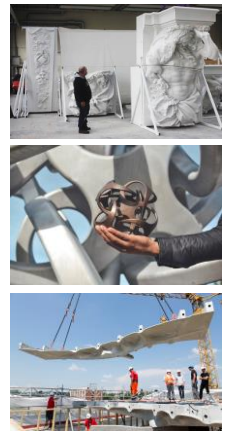
Automotive, Aerospace, General Engineering

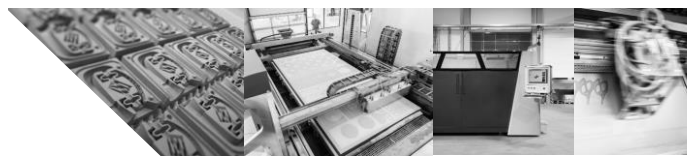


Sporting & Consumer



Art & Architecture





Expected strong momentum through attractive long-term market drivers

> 3D printing will become a mainstream technology for series production



> Automation will become a key focus for the industry and offering integrated solutions will be a huge market opportunity



> 3D printing will be a driver for environmental development: less waste in production and higher usage efficiency



> Demand for lightweight, complex components expected to increase dramatically across industries



> Design software for additive will become more integrated and easier to use



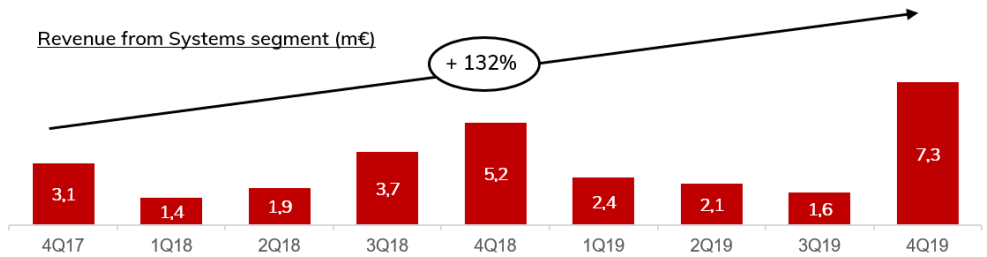
> 3D printing will become smarter



Getting' grip on it

Revenue from Systems segment (m€)

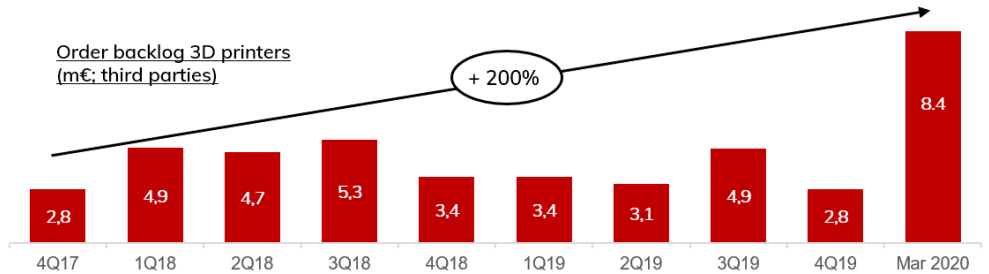
+ 132%



4Q19 with highest quarterly Systems revenue so far

Order backlog 3D printers (m€; third parties)

+ 200%



> 2x higher order backlog for 3D printers as compared to previous quarters



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