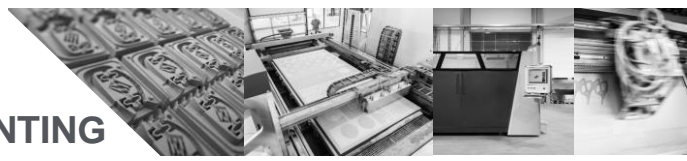


COMPANY PROFILE – voxeljet AG (NASDAQ: VJET) INDUSTRIAL 3D PRINTING



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



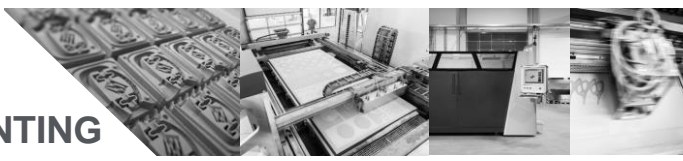
- Starting to commercialize new innovations and 3D printers for additive series-production: VJET X and VX1000 HSS
- Leverage recent investments in additional capacity to meet growing demand

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

voxeljet



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

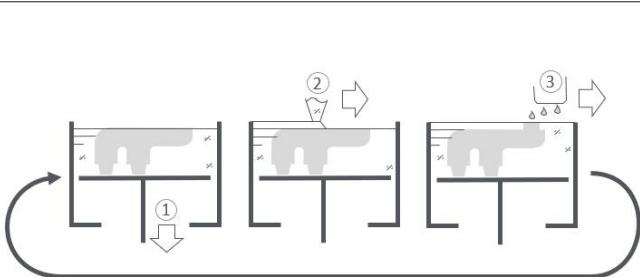
To address the performance issue, we believe we have developed the fastest binder-jetting 3D printers currently available. To reduce the operational costs of our 3D printers, we integrate them into already existing supply chains. We use a hybrid approach to manufacture complex metal parts.



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:

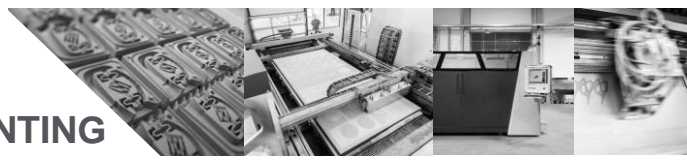
- 1) Lower the layer
- 2) Coating with particle material such as sand or plastic
- 3) Printing with a binding agent or ink



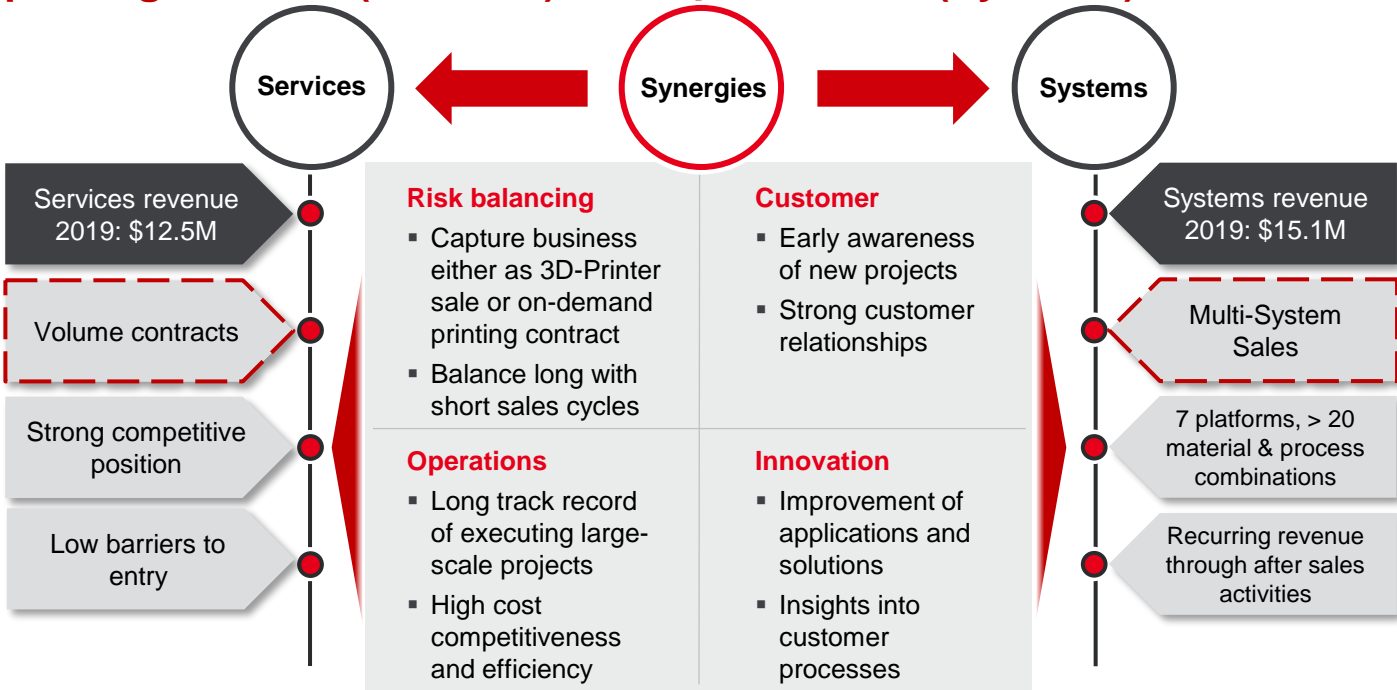
Key advantages as compared to other additive manufacturing technologies:

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

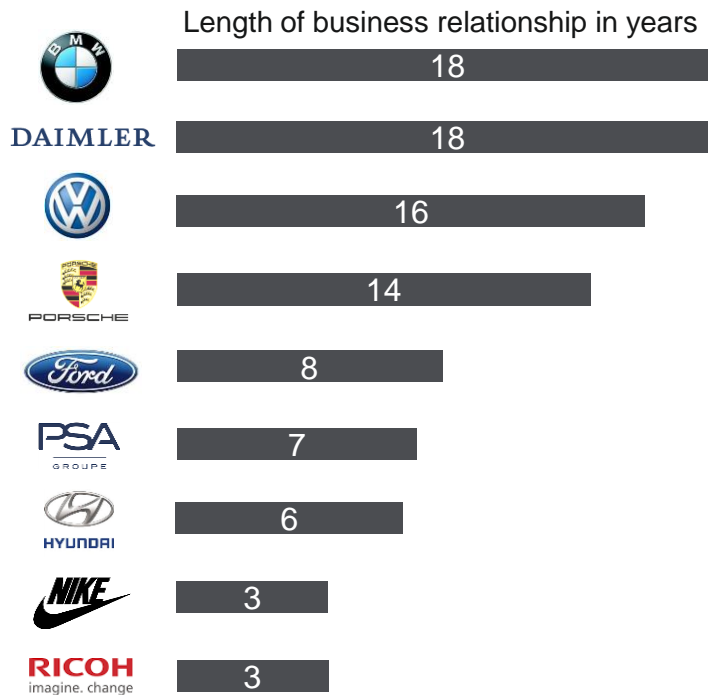
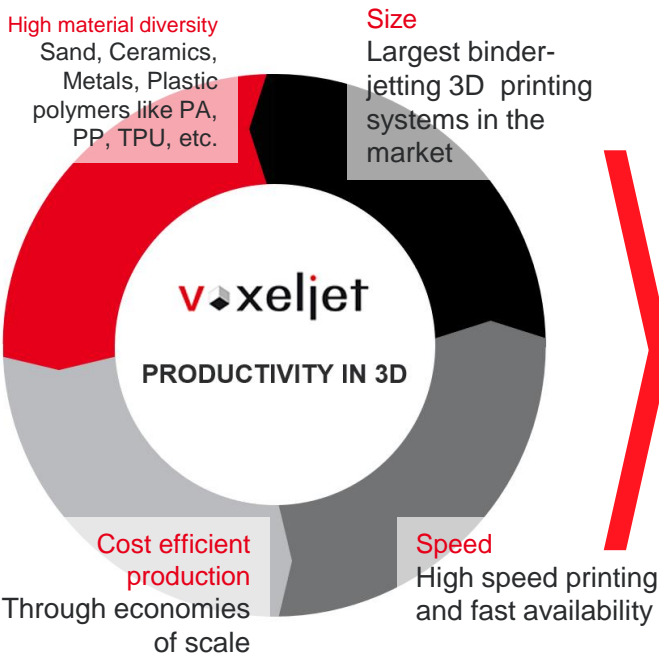
COMPANY PROFILE – voxeljet AG (NASDAQ: VJET) INDUSTRIAL 3D PRINTING



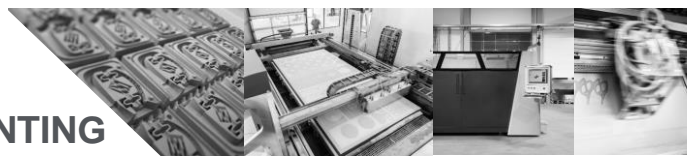
Integrated business model: capture business either as on-demand printing contract (Services) or 3D printer sale (Systems)



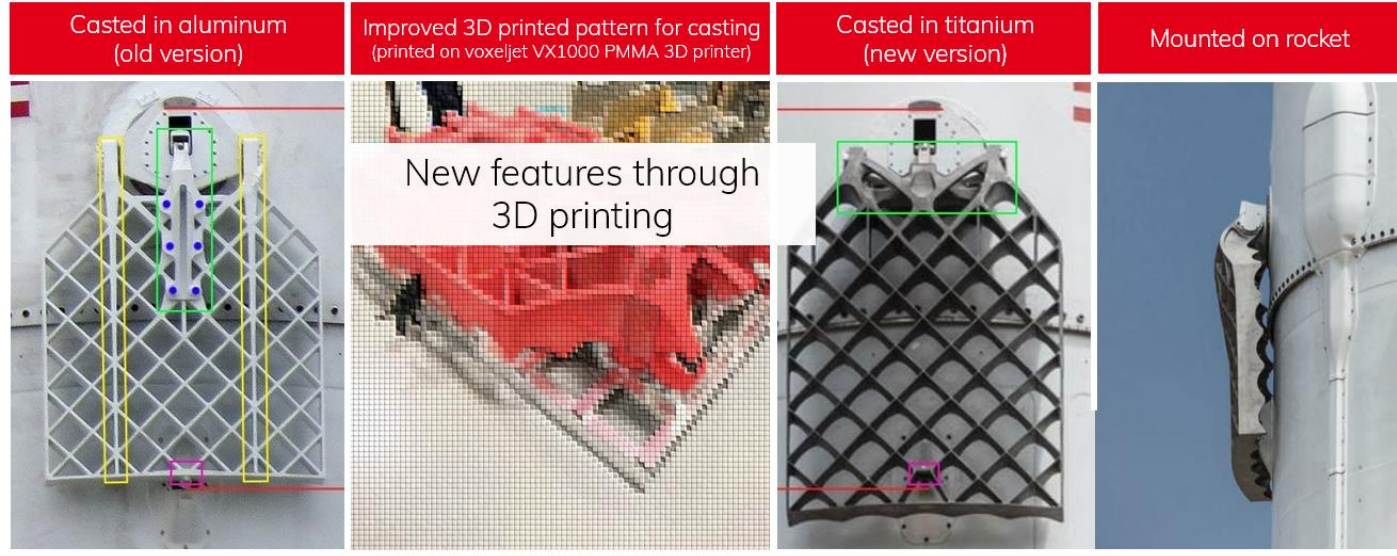
Strong competitive position and diversified blue-chip customer base



**COMPANY PROFILE – voxeljet AG
(NASDAQ: VJET) INDUSTRIAL 3D PRINTING**



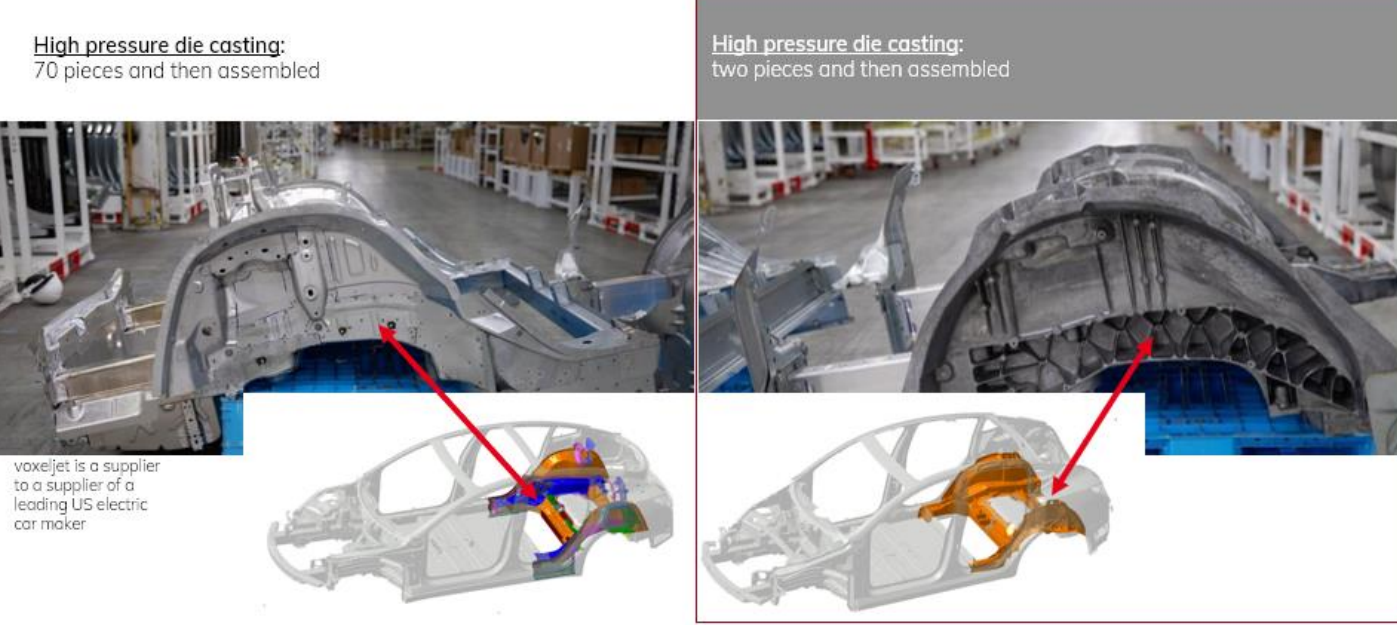
Case Study I: new features, less manufacturing complexity and lower costs



voxeljet is a supplier to a supplier of a leading US space exploration company

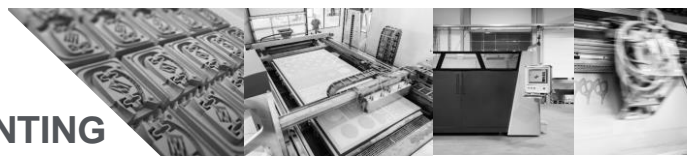
Left side: old, aluminum version. Middle left: 3D printed pattern for the casting of new titanium grid fins (pattern was printed on voxeljet's VX1000 PMMA 3D printer). Middle right: new titanium fins are stronger, but still light enough to rival aluminum. Right side as mounted on rocket: new fins have a completely different shape. This new shape provides better zero-lift total drag and lift-to-drag ratio over the older ones.

Case Study II: new features, less manufacturing complexity and lower costs



Individual metal pieces made by high pressure die casting; requires large and complex casting tools out of steel, which can cost > \$1M. with voxeljet's VX4000 3D printer, the largest binder jetting system of this kind, sand moulds for the casting of large metal parts can directly be printed and no tools are required.

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Expected strong momentum through attractive long-term market drivers

› 3D printing will become a **mainstream technology for series production**



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



› **Automation will become a key focus for the industry and offering integrated solutions** is expected to be a huge market opportunity

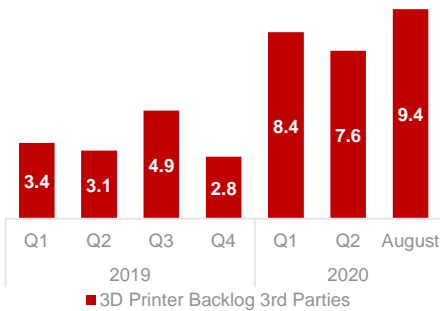


› 3D printing will be a driver for **environmental development**: less waste in production and higher usage efficiency



Breakdown 2Q2020

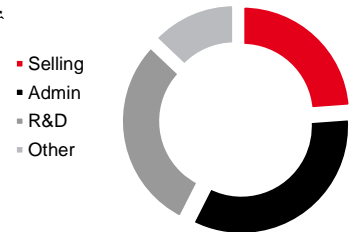
Order Backlog
3D printers, 3rd party, €M



Revenue
By geographic region



Opex
By function



VX1000 HSS

VJET X

	Americas	EMEA	Asia	Selling	Admin	R&D	Other
% 2Q20 Revenue	20.9	67.6	11.5	33.3	47.0	41.4	18.1
% 2Q19 Revenue	37.3	50.8	11.9	34.9	31.4	33.7	16.2

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