

MX3D

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ThinkRevolutionist

A BRIDGE BETWEEN THE PAST AND TOMORROW



Industry



AEC



- Metal 3D Printing
- Art Design
- High Tech

Systems



- ThinkStation P910
- ThinkPad P40 Yoga

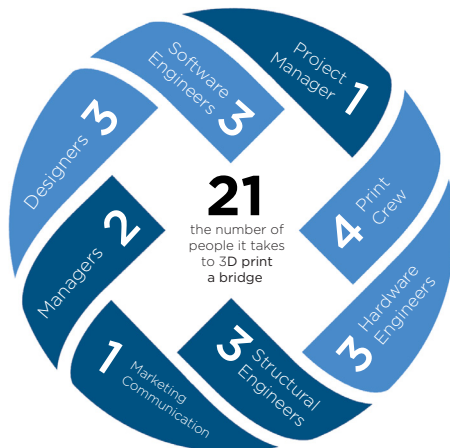
Challenges



MX3D needs to compute large data sets and render multiple design iterations quickly

Key Facts

Amsterdam		1,281 Bridges
		165 Canals
		8 Wooden Drawbridges
		1 Skinny bridge



5 robots

are currently in operation, each working on either production work or testing for the bridge



3.5 tons

of steel has been used



1500C

how hot metal gets when 3D printing

Overall Development

MX3D

“ THE WORK THAT WE DO, CONSISTS OF BOTH DESIGN WORK AND CREATING FILES THAT THE ROBOTS CAN PRINT. ONE OF THE BIGGEST ADVANTAGES OF OUR TECHNIQUE, THE FACT THAT WE CAN PRINT VERY COMPLEX GEOMETRIES, ALSO PROVIDES ONE OF THE BIGGEST CHALLENGES. ”

- MX3D

I STRONGLY BELIEVE IN THE FUTURE OF DIGITAL PRODUCTION AND LOCAL PRODUCTION, IN 'THE NEW CRAFT.' THIS BRIDGE WILL SHOW HOW 3D PRINTING FINALLY ENTERS THE WORLD OF LARGE-SCALE, FUNCTIONAL OBJECTS AND SUSTAINABLE MATERIALS WHILE ALLOWING UNPRECEDENTED FREEDOM OF FORM.

- JORIS LAARMAN, Designer @MX3D

HOW LENOVO WORKSTATION TRANSFORMED OUR PROCESS

“We use Autodesk software to carryout structure optimizations, there is a lot of data we have to compute and manage. ThinkStation workstations are really powerful systems which allow us handle all the data we use and to ensure crucial calculations are done smoothly.”

- Tim Geurtjens
Co-Founder at CTO, MX3D



Workstations used for Workflow and Software



ThinkPad P50
This is main system that all our engineers use. They use it for anything from design work to coding, file generating and surfing



RhinoCeros

ThinkStation P500
Advanced design work and print file generation



ThinkPad P40 Yoga
In charge of robotics control and sketching bridge iterations



AUTODESK® SKETCHBOOK™



MAYA



AUTODESK® FUSION 360™

ThinkStation P910
Raw computing, generating complex print files and running simulations



ThinkStation.
ThinkPad.

Find out more about Lenovo Workstation, please visit www.thinkworkstations.com



NVIDIA.
QUADRO™

THINKREVOLUTION

Lenovo