wematter

Wematter Gravity

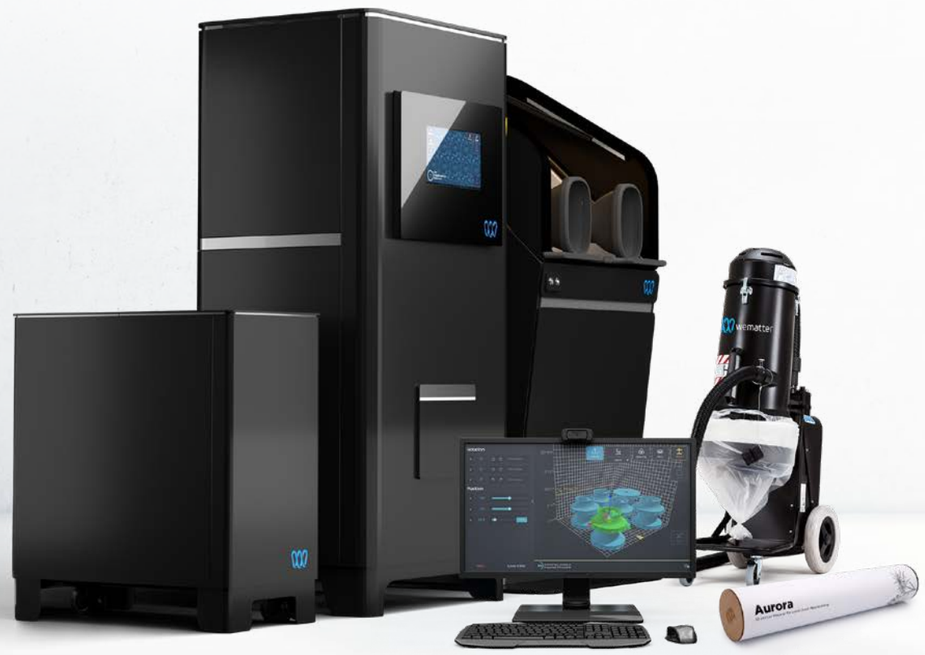
SLS 3D printing system

A complete additive manufacturing platform for product development directly at your office

Wematter Gravity
SLS 3D printing system

Wematter Gravity is a groundbreaking and easy-to-use SLS 3D printing platform for additive manufacturing.

Imagine printing functional components for testing and end use directly at your office, with the push of a single button. Wematter's novel SLS 3D printing platform can increase your team's performance through the use of additive manufacturing.

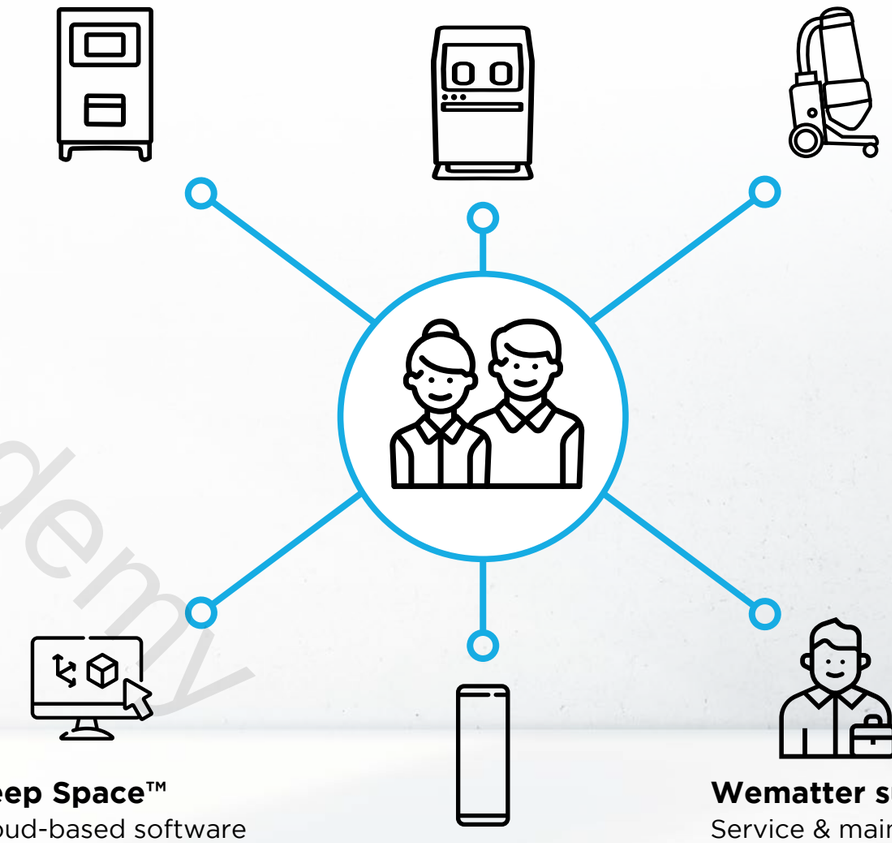


A complete SLS solution for
in-house additive manufacturing

Gravity
SLS 3D printer
- Stronger than conventional SLS technology

Density
Water-jet cabinet
- Used for cleaning 3D-printed models by removing powder

Inertia
Powder collector
- Vacuums excess powder after print job



Deep Space™
Cloud-based software
- Web interface for managing CAD files before print jobs
- 3D algorithms
- Wemote display on the 3D printer

Aurora powder
Printing material
- Made from renewable sources
- Recyclable

Wematter support
Service & maintenance
- Installations
- Spare parts
- Accessories
- Design guidance
- Process know-how

High-end SLS technology in a user-friendly format

- **Strong & Flexible**
SLS 3D-printed parts with mechanical properties as strong as those made by using injection molding but without the need of a support structure.

- **Just Plug & Play**
A CE-certified, easy to install ecosystem that is up and running less than an hour after delivery. You only need a standard power socket for your AM production.

- **Patented powder system**
Easily refill the Wematter Gravity with our patented powder packaging. The powder is recycled and stored inside Gravity for your next print.

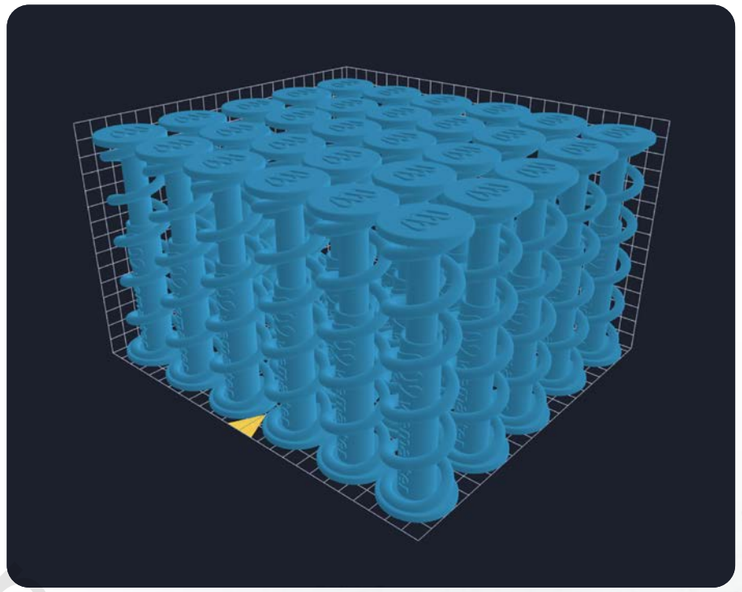
- **No More Service Plans**
Cloud-connected, novel machine built for a sustainable long-term rental. Self-diagnosis and autonomous troubleshooting with Wematter's cloud software.

- **Work remotely**
Start and monitor print jobs with your phone, laptop, or tablet with the help of Wematter's IoT platform.

- **Easy to use for everyone**
Self-instructing software and machine-guidance pair with ergonomic design for an effective printing process.

SLS prints that can be produced & delivered in hours

Reduce lead time and cost for your 3D-printed parts by having your own SLS 3D printer at your office. Print functional prototypes, tools, and replacements in your own additive manufacturing system without extensive labour time, or powder-safe facilities. See how you can save time and money with Wematter in the example below.



Pieces per print job	30
Material	Aurora PA11
Running time	12 hours
Typical service bureau cost per unit	70 EUR
Wematter 3D-printed cost per unit	3,5 EUR
Cost savings*	95 %
Time savings*	85 %

*compared to price and lead time for a service bureau print job

Request your free quote at wematter3d.com

Deep Space™ Cloud service, always connected & ready

We have developed a complete software platform with no installation requirements that is always maintained and serviced through the cloud.

No more desktop software

With Wematter you can control your printer from anywhere in the world, simply by logging in to our website portal. The Gravity Camera Stream allows you to monitor the entire process remotely.

24/7
connected

Slicing software in the cloud

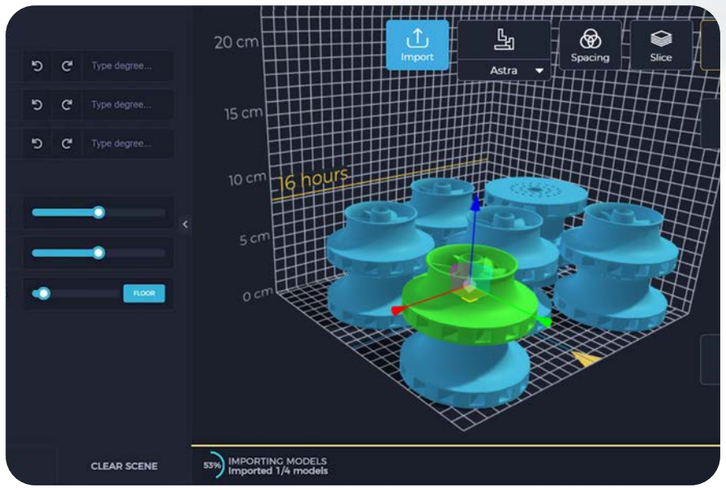
No more long wait times for the slicing process, no more software updates, and no more discussions with IT-security gatekeepers.

100%
updated

Packing made simple with Stacker™

Our proprietary smart algorithms handle multiple 3D objects at the same time and package them as closely as possible. This increases efficiency while simultaneously reducing the powder use.

1000
prints with
1 button



Print your models with our **Aurora powder material**

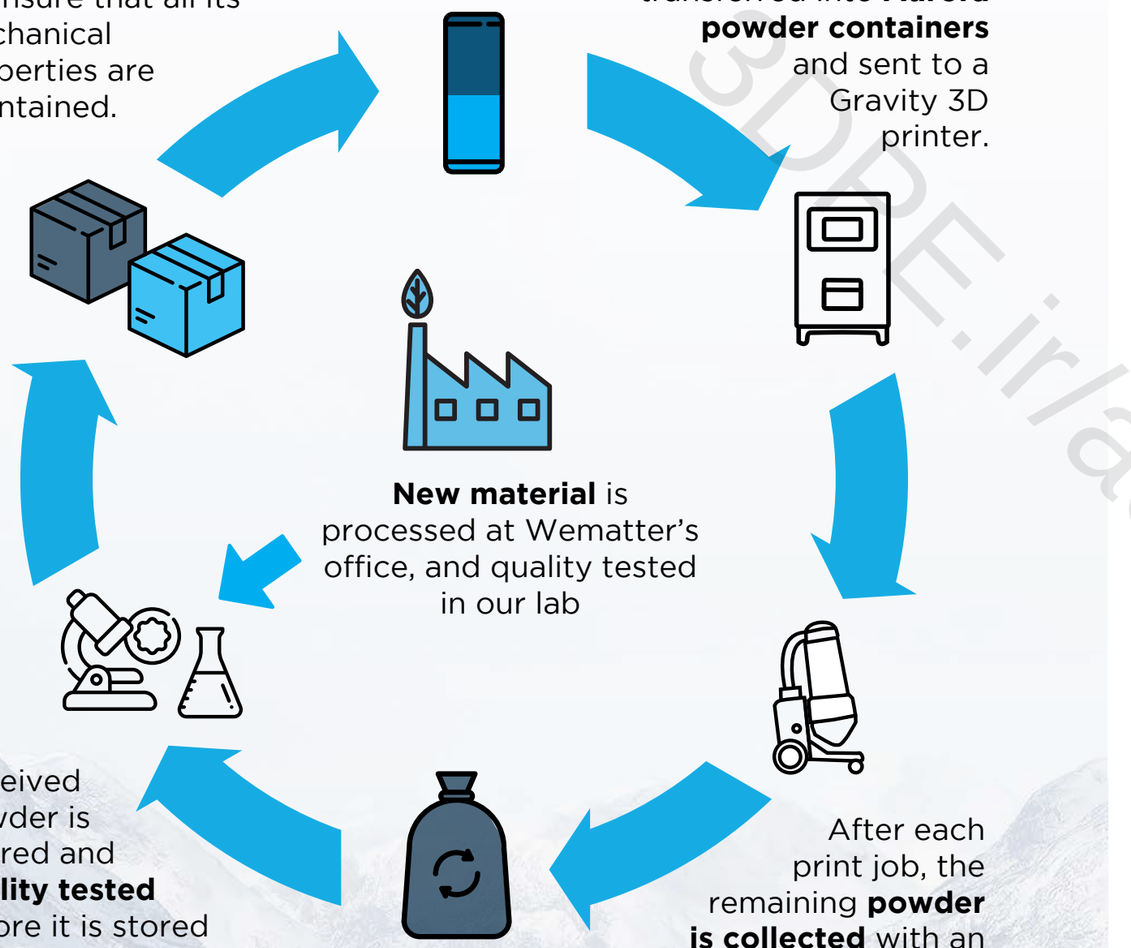
Aurora SLS powder
Aurora is an incredibly strong SLS printing material. It is a material family developed for the future of additive manufacturing, providing excellent mechanical properties.

Innovative powder container
Easily refill the Wematter Gravity with our patented powder packaging. Insert the package, turn it, and Gravity empties the powder container in just a few seconds.

See all material options at wematter3d.com

Used Aurora powder can be recycled for new print jobs

Used powder is **mixed with 50% new powder** to ensure that all its mechanical properties are maintained.



The combined new and recycled material is transferred into **Aurora powder containers** and sent to a Gravity 3D printer.

New material is processed at Wematter's office, and quality tested in our lab

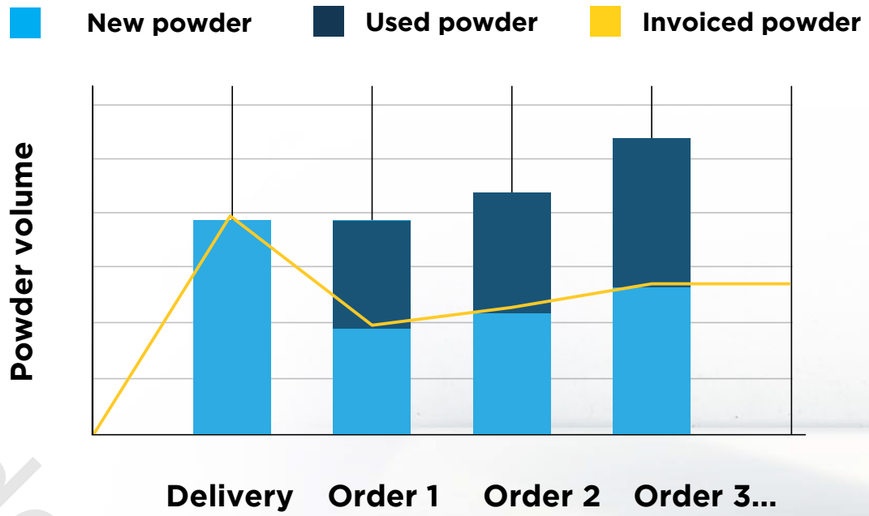
After each print job, the remaining **powder is collected** with an Inertia vacuum unit.

All of the **used powder** is sent to Wematter's office for recycling.

Received powder is filtered and **quality tested** before it is stored and processed for new prints.

You give us your used powder; we give you a discounted price

Material recycling at Wematter benefits the environment as well as your budget. After having sent back used powder, we mix it with new material, and you only pay for the amount of new material in your next order.



100%

up to one hundred percent of the used powder can be recycled depending on the material and how many times it has been reused.

Example prints for medical technology and healthcare

Wematter has replaced traditional orthopedic plaster with a bio-based 3D-printed orthosis that adopts the IMA (Innovative Materials Arena) framework. This innovation is the first of its kind in Sweden.

Wematter can create surgical models generated by modern software based on CT data. The prints are made of biodegradable plastic and have been used to prepare for real surgeries.

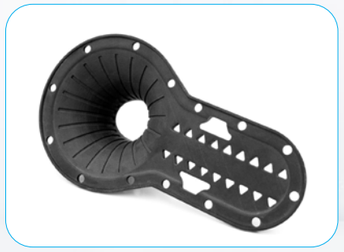
Wematter has printed several different prosthetic parts in different materials that can be used by patients in need of tailor-made sustainable prints.

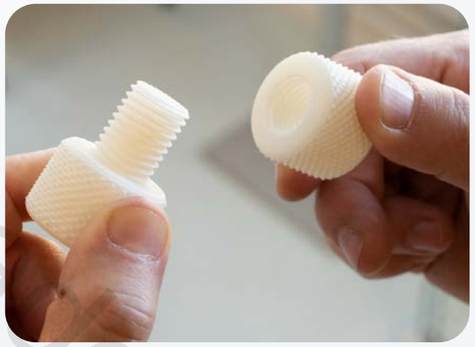
Request 3D-printed samples at www.wematter3d.com

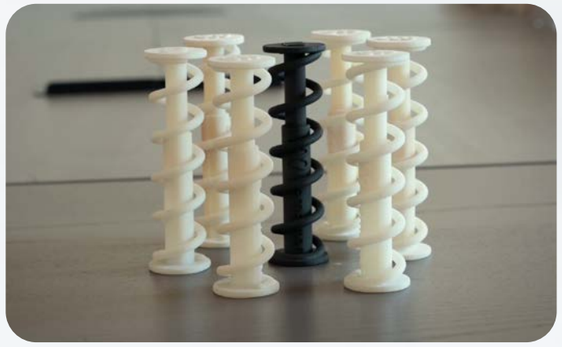
Example prints for industrial and commercial applications

Moving parts for flying drone arm

Left: moving grappling claw
Below: industrial components







Above: functional screws and springs **Below:** Medals for a sporting competition

Request 3D-printed samples at wematter3d.com

Gravity SLS 3D-printer
Technical data & specifications

Build Volume	up to 300 x 300 x300 mm
Precision	0,1 mm
Footprint	less than 1 square meter
Machine Dimensions	170 x 75 x 60 cm
Print Technology	Powder Bed Fusion > Selective Laser Sintering
Speed	12 mm per hour
Weight	310 kg
Connections	Power 230 V, 50-60 Hz / Ethernet 1 Gigabit

1. WeMote panel
13,3 inch touch screen with see-through camera window to view print jobs

2. Clean air
HEPA active coal filtering system ensuring clean and safe air quality.

3. Powder refill inlet
Patented leak-free automatic powder refill system.

4. Safe & sound
Robust double-shielded metal construction eliminating radiation and other hazards.

5. Slim & agile
No wider than a fridge, which makes Gravity easy to move around at your office.

6. Connections
Unique machine only requiring one power outlet and one ethernet connection.

Why choose Wematter?
Let's ask our customers!

"Finally: an SLS that we can have here, ourselves. We have been waiting a long time for this to come, and now Wematter is here."

Fredrik Karlsson, Systems Engineer

Husqvarna

"Wematter has thought of the entire ecosystem, from uploading the files at your computer to washing the powder with their Density water blaster. It's a very flexible solution where you can monitor and start print jobs from your computer without even being at the Gravity machine."

Glenn Torsténi, Systems Engineer

Epiroc

"Wematter's prints were clearly above expectations, and it feels good that a Swedish company dares to invest in developing its own machines and succeeds this well. Good job!"

Anders Lundgren, Design Engineer

"Wematter's prints were above expectations; they are both within tolerance and have a surface finish so good that we don't have to post process, which is not a matter of course in additive manufacturing."

Mats Åhlin, Materials Specialist

About **Wematter**

Wematter manufactures advanced office-sized selective laser sintering 3D printers. The company exists to accelerate the move towards additive manufacturing by lowering barriers to entry. Its innovative 3D-printing SLS technology lets companies quickly prototype ideas, which increases overall design and engineering efficiency.

Wematter's Nordic roots suffuse the company's creative cycle. The team focuses on balancing user experience, ease of use, sustainability, and performance in all of its activities. The resulting quality and reliability are testaments to not just a client focus but to corporate responsibility in the face of a changing environment and industrial landscape.

Do you need help **deciding?**
Book a meeting with us today!

Email sales@wematter.se
Phone +46(0)13 560 33 00
Office Södra Oskarsgatan 4, 58273 Linköping, Sweden

wematter