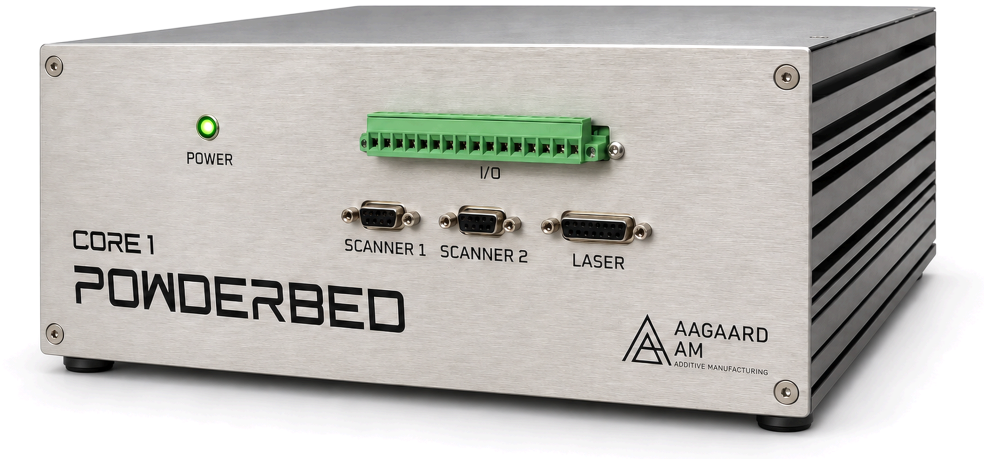
POWDERBED

CORE 1

Open control for laser powder bed fusion.

Stop building controllers. Start building processes.



INDUSTRIAL 3D PRINTING · SOURCE CODE INCLUDED · LOCAL EQUIPMENT NETWORK

LASERS	CONFIGURABLE I/O	DEVICE CONNECTIVITY	CORE 1 · NET*
1	16-pin	Add your PLCs, sensors & more	€9,900

*Excluding VAT and shipping.

FORMNEXT 2026 · FRANKFURT · 17–20 NOVEMBER

Hall 12.0 · Stand F85

Our demo corner on the Sensortherm stand

powderbed.com/formnext

In collaboration with AUTODESK

The control stack is already built. Move straight to integration.

Core 1 ships with working scanner and laser control, build handling, an operator interface and simulation. With the full source code included, your team can adapt the software to your machine and put more of its R&D budget into process development.

Your process stays yours

Adapt the included source code for commercial use and keep your extensions private.

Develop with AI

Extend the machine software with help from an AI coding assistant. Rules for your LLM already included.

Simulation built in

Test machine logic and workflows before powering a laser.

Control every scan vector

Set laser power, speed and delays per vector in 3MF toolpaths. Use power ramps to vary laser power along a single vector.

Connect your equipment

Device drivers, PLC communication and a REST API for your tools.

See the machine logic

Follow live states and transitions in the machine's state graph.

Process insight & diagnostics

Plot process data, inspect machine events and analyse timings.

Run subsystems in parallel

Coordinate laser control, motion and auxiliary equipment through signals between subsystems.

FROM TOOLPATH TO MACHINE



Prepare

Fusion workflow and 3MF toolpaths with per-vector parameters.

Simulate

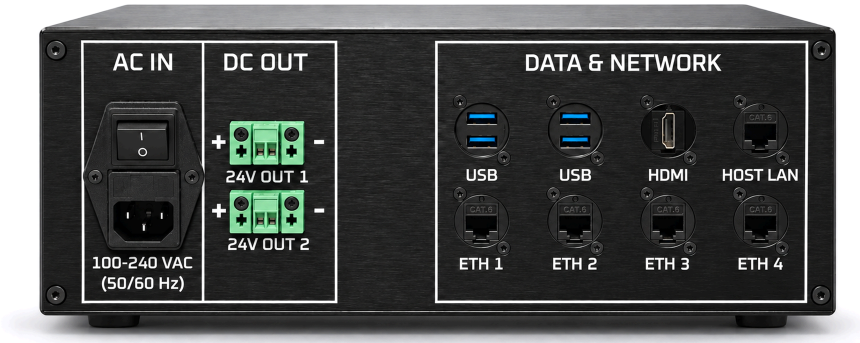
Try the machine workflow before powering a laser.

Run & inspect

Follow machine states and review the journal in the operator interface.

Control the laser.
Connect the rest.

Core 1 puts dedicated scanner and laser timing, configurable signals and a local equipment network in one controller.



Core 1 · Rear view

01 / EXPOSURE TIMING

Laser & scanner control

1 laser

SCANLAB RTC6
SL2-100 or XY2-100*

02 / MACHINE SIGNALS

Configurable I/O

16-pin connector

Pinout and interface electronics specified for your configuration.

03 / DEVICE INTEGRATION

Local equipment network

4 switched Ethernet ports

Connect your own PLCs, sensors, cameras and other auxiliary devices.

04 / SYSTEM CONNECTIONS

Host & power

Host LAN · 4 × USB · HDMI

100–240 VAC input
2 × 24 V DC output

Autodesk Machine Control Framework comes preinstalled. RTC6 firmware and SDK remain SCANLAB products.

Scanners, lasers, sensors and cameras are not included.

*XY2-100 requires an adapter, supplied separately.

POWDERBED

Choose how much we do for you.

Every Core comes ready to run. Add the services you need. POWDERBED can be your engineering partner at every stage.

INCLUDED

Every Core

- Initial consulting, build styles and Autodesk Fusion CAD/CAM integration*
- Machine software preinstalled, with simulation
- Scanner and laser commissioning
- Drivers for your equipment**
- Acceptance test, on site or remote
- Remote onboarding session
- Documentation, connector pinout and grant documents

*Includes adjustable build style source code.
**Availability depends on your hardware. Ask for a quote.

FOR MACHINE BUILDERS · QUOTE

OEM Design-In

Evaluation unit, volume pricing, private-label front panel and engineering support, including custom build styles and advanced toolpath development.

OPTIONAL · ANNUAL QUOTE

Care

Tested updates, priority support, remote diagnostics and a regular user call.

CONFIGURATIONS

Same software. Core 1 to Core 4.

Core 1 · one laser	**Core 2** · two lasers	**Core 4** · four lasers
€9,900	€14,900	€19,900

Core 2 and Core 4 are available to order. Rack 32 / 64 / 128 is quoted on request.

SEE CORE 1 · BOOK A DEMO

powderbed.com/formnext

contact@powderbed.com

Hall 12.0 · Stand F85 · at Sensortherm

A product by AAGAARD AM ADDITIVE MANUFACTURING

Prices exclude VAT and shipping and are subject to change. Availability, delivery times and final scope are confirmed in a written quotation.

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