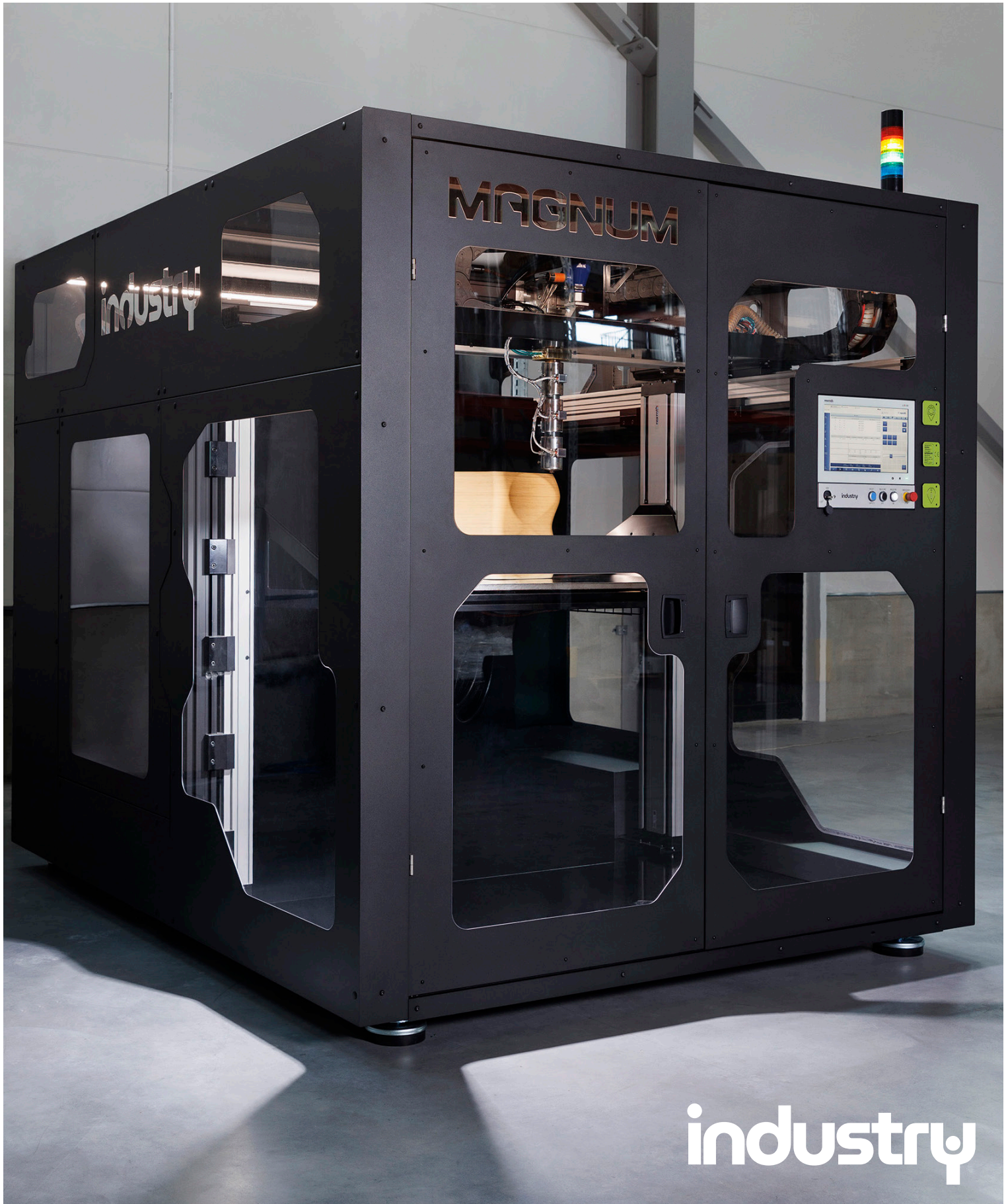


MAGNUM



industry

THE FUTURE OF
SUSTAINABLE
LARGE SCALE

3D PRINTING



Eel Lounge Chair Olive from Ekbacken Studios. Printed with MAGNUM 3D Printer.

As a leading provider of advanced large-scale 3D printing solutions in Scandinavia, The Industry Sweden AB takes great pleasure in presenting MAGNUM 3D Printer – a pinnacle of adaptability and sustainable leading-edge technology.

Delivering cost-effective production via rapid, high-capacity printing with pellets and granules, air-cooling for print preservation, and competitive pricing, our machine stands as an optimal choice for businesses aiming for effective and budget-friendly large-scale 3D printing. MAGNUM's exceptional features extend to its diverse material compatibility, encompassing recycled and biomaterials along with additives such as wood fibre and recycled EPDM, making it perfect for large-scale 3D printing projects.

We are proud to be an integral part of the esteemed Vinnova Swedish Innovation Agency project - "Production2030 and Formas; OCEAN-LSAM." This groundbreaking initiative lays the foundation for a future global network of circular economy micro-factories, dedicated to producing large products designed by the Swedish industry. MAGNUM plays a crucial role in this vision by utilising local recycled polymer waste streams through advanced large-scale additive manufacturing (LSAM) equipment supplied by Swedish industry.

Amidst the transformative era of the fourth industrial revolution, defined by advanced technologies, seamless data exchange, and automation, 3D printing emerges as a pivotal force for sustainability and environmental preservation. The MAGNUM 3D Printer stands at the forefront of this innovation, driven by its unique capability to minimise waste and significantly reduce the environmental impact, presenting a strong contrast to conventional manufacturing practices. With a focus on incorporating recycled and biomaterials, MAGNUM actively contributes to a circular economy, thereby reducing the demand for raw materials and alleviating the burden on our precious natural resources.

Sincerely Yours



Jonas Carlsson
CEO The Industry Sweden AB



MAGNUM 3D Printer Serie nr. MAG-22001

MAGNUM 3D PRINTER

Installation prerequisites

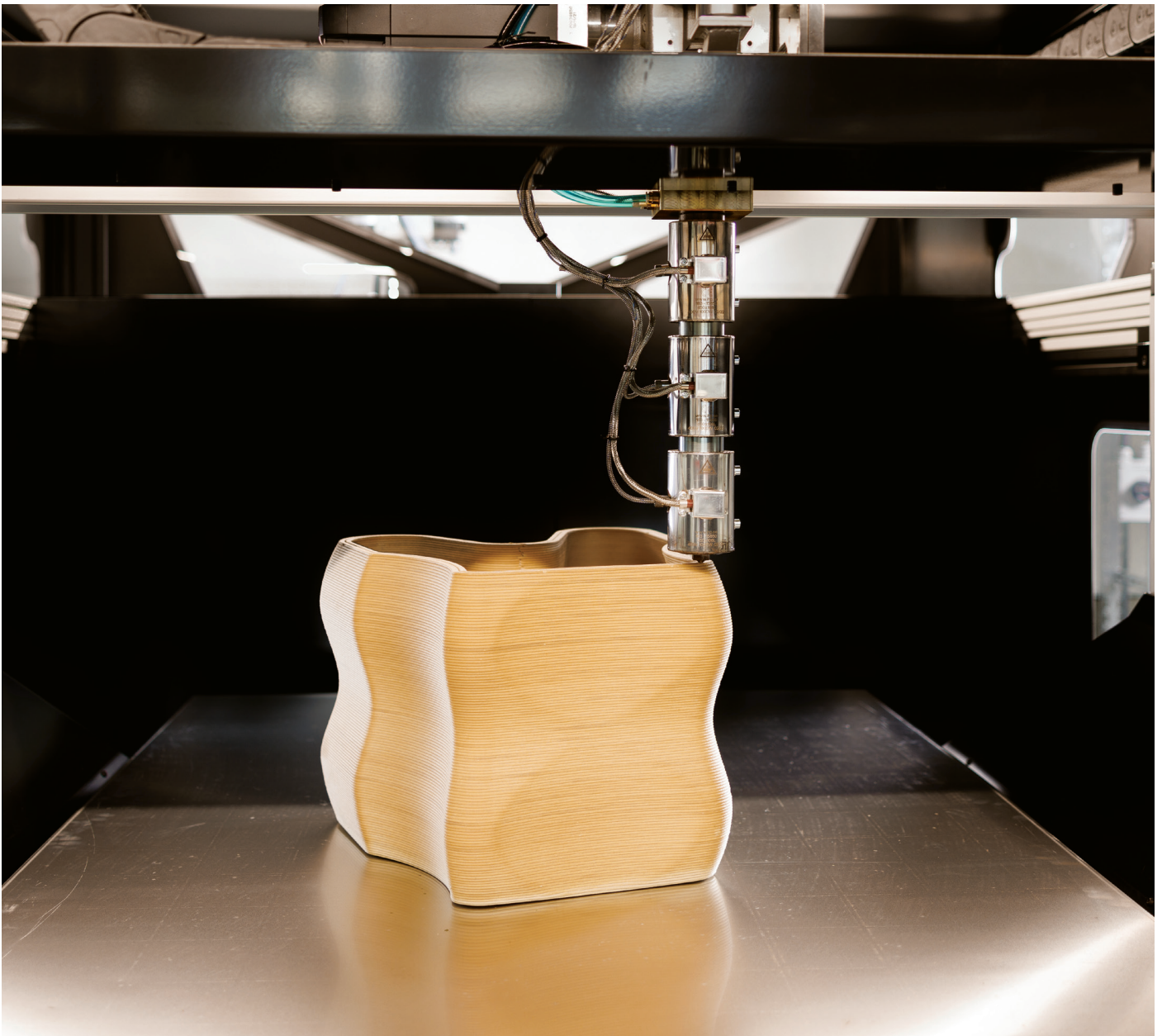
- Sufficient free space in front (minimum 2m) and at the back (minimum 1m) of the machine.
- Basic ventilation must be provided.
- Maintain room temperature above 10°C.

Technical Specifications

Print volume X x Y x Z	1500x1200x1200	mm
Heated table maximum temperature	165	C
Extruder maximum temperature	450	C
Supply voltage N,PE, 50Hz ± 5%	3x400	V
Rated power	25	kW
Fuse	32	A
Machine footprint	2900x2200	mm
Machine height	2350	mm
Base weight machine	2500	kg

Product Inclusions

- Fully electrical machine with ISO and DIN standard design
- 15" touchscreen panel for easy operation
- User manual online via NFC link.
- Complete extruder with servo motor, specially designed screw (25mm), and barrel
- Nozzles included: Ø2mm, Ø4mm, Ø6mm, Ø8mm, and Ø10mm with air-cooling feature
- Tools for nozzle change
- Heated vacuum table with a 2mm aluminium sheet
- Integrated Camera Surveillance
- Integrated material feeding system
- Stand-alone water cooler with associated hose and connection



PLUG & PLAY

We do not only make 3d printing easy, but we also want the whole process for you as a customer to be easy. Fast and easy installation and a short time to start printing!

COMPACT

MAGNUMs large print volume of as much as 2.16 m³ makes it possible to print really large details, but despite this, MAGNUM is compact enough to be transported in standard containers.

INCLUDED BENEFITS

Education and Support

To ensure a seamless transition, we offer 2 days of free-of-charge operator training at The Industry Sweden AB facility in Malmö, Sweden. Our open-source software Simplify 3D with customised profiles will also be shared with you. Furthermore we will provide dedicated support throughout your whole time frame of your purchase.

Materials Starter Kit

Jumpstart your 3D printing projects with our Materials Starter Kit, offering a curated selection of sustainable materials. This comprehensive kit includes a range of high-quality granules, perfect for diverse applications. Embrace immediate exploration and experimentation, as you delve into the limitless possibilities of 3D printing.

Nozzle Kit and 2 Print Beds

Every package comes complete with a convenient Nozzle Kit, comprising five nozzles of varying sizes (Ø2mm, Ø4mm, Ø6mm, Ø8mm, and Ø10mm), each provided in one unit. Additionally, you will receive two durable Aluminium Print sheets, each measuring 2x1500x1200mm, ensuring an exceptional printing experience.

For those requiring extra nozzles or print beds, these can be purchased separately at the specified additional prices mentioned below.

Warranty

12 months after installation, a maximum of 15 months after delivery. Conditions of warranty for the products apply at normal use, with agreed-upon materials in use.

Safety and Compliance

The MAGNUM 3D Printer is engineered in accordance with valid legal requirements for safety, environment, and ergonomics, meeting the Machine Directive (MD) 2006/42/EG. It complies with harmonised standards such as EN 292-1, EN 292-2, EN 294, EN 50 081-2, and EN 50 082-2. The machine is fully CE-certified, ensuring the highest standards of safety.



Ekbacken
Studios

OPEN MATERIAL SYSTEM

GRANULES/PELLETS

GRANULATE



PELLETS



SHREDDED



**MAGNUM OFFERS
GREAT FLEXIBILITY
THROUGH ITS
POWERFUL OPEN
MATERIAL SYSTEM**

A wide range of materials and open source filaments is accepted. Using granules/pellets instead of filament has many advantages when you want to print large. Allows higher output, and It can sometimes be as much as ten times cheaper than equivalent filament.

MATERIALS

ADDNITE
P15R

Addnite

ECORUB
TYRE RUBBER

ecorub

STORA ENSO
DURASENSE
OCEAN 3D

 **storaenso**

REFLOW PLA



OCEAN TIDE PP

#tide
OCEAN MATERIAL

EKBACKEN
FISHNET
NYLON

OPEN SOURCE

rPETG

rPP

rTPE

rTPU

rPLA

rPA

rPVA



The "Dura" collection by Clarius

PAYMENT, DELIVERY, INSTALLATION ETC.

Conditions of Delivery and Payment

The machines are offered on an EXW basis from The Industry Sweden AB in Malmö, excluding packaging (Incoterms 2020). Payment terms include 50% at the time of order placement and the remaining 50% before delivery and after confirmation for the printer.

Printer installation

Upon delivery, the printer is thoroughly tested and prepared for commissioning. The customer's responsibilities for installation include:

- Connecting the electricity and hose of the material dryer.
- Connecting the electricity and hose of the water cooler.
- Connecting ventilation.
- Establishing Wi-Fi connectivity.
- Connecting the pneumatics.
- Linking the printer to the power/electricity supply
(to be done by a qualified electrician).

The commissioning process will be conducted in collaboration with The Industry Sweden AB via a Microsoft Teams link, ensuring a seamless setup and/or in person at the facility.

General Conditions of Delivery

The manufacturer retains the right to make changes without prior notice to data, information in folders, technical descriptions, etc. We are not liable for delivery delays, engineering adjustments, or price changes caused by external factors. The goods will remain the property of the supplier until the full transaction for the machine is completed. Furthermore, the General conditions Orgalime S2012 will be applicable. Please note that due to ongoing technical developments, we may reserve the right to make changes.

Documentation of Contract Contents

All agreements included in the contract must be documented in writing, referenced in the order, and subsequently confirmed in the order confirmation to be considered valid. Any agreements not documented in writing, referenced, and confirmed will not hold.

Changes in Contract

In case modifications, additions, or deviations are made from the original contract, a thorough evaluation will be conducted to assess its impact on the established commercial agreement. These changes will be implemented after your signing of the order confirmation from The Industry Sweden AB.

TRUSTED BY



industry

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