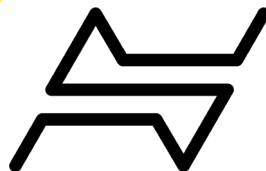


AMNOVA COMPANY PROFILE

2023



AMNOVA COMPANY DETAILS

Company Name: Amnova Tech (Pty) Ltd

Founded: January 2020

Managing Director: Denislav V. Marinov

Website: www.amnovatech.com

Email: info@amnovatech.com

Contact: +27 72 577 3131

Address: 43 West St, East Town
Gauteng, South Africa, 2195



AMNOVA

Accelerating the adoption of
sustainable additive manufacturing
technologies across Africa whilst
fostering the next generation of
inspired engineers and scientists

PURPOSE

Producing sustainable manufacturing ecosystems that make production accessible to all.

VISION

Be the leading manufacturer of advanced industrial production technologies in Africa.

WHO ARE WE?

Amnova is a young production technology startup based in South Africa servicing clients from across the globe. We are at the forefront of developing sustainable Additive Manufacturing (AM) technologies and industrial grade Hybrid 3D Printing systems.

Our technologies are used for a variety of rapid prototyping, batch production and large format manufacturing services. These technologies find applications in the mining, water treatment, telecom, medical, automotive, aerospace, construction and production industries.

Amnova was officially founded in 2020 by Denislav Marinov whilst completing his Post Graduate studies in Materials Science. Denislav spent several years prior to forming the company developing and testing large format AM systems. During this period he realised there was a desperate need for these systems and services in Africa. The local inaccessibility of these technologies either prevented product development or resulted in outsourcing to foreign service providers. This led to the formation of Amnova which to date has helped more than 30 clients develop their products and get to market.



WHY DO WE DO IT?

At Amnova, we are passionate about empowering Africa as a global leader in sustainable manufacturing and advanced technology development. In particular, we are committed to:

1. Achieving carbon neutral industrial manufacturing practices

Developing smart circular economy production systems empowered by AI and digital fabrication.

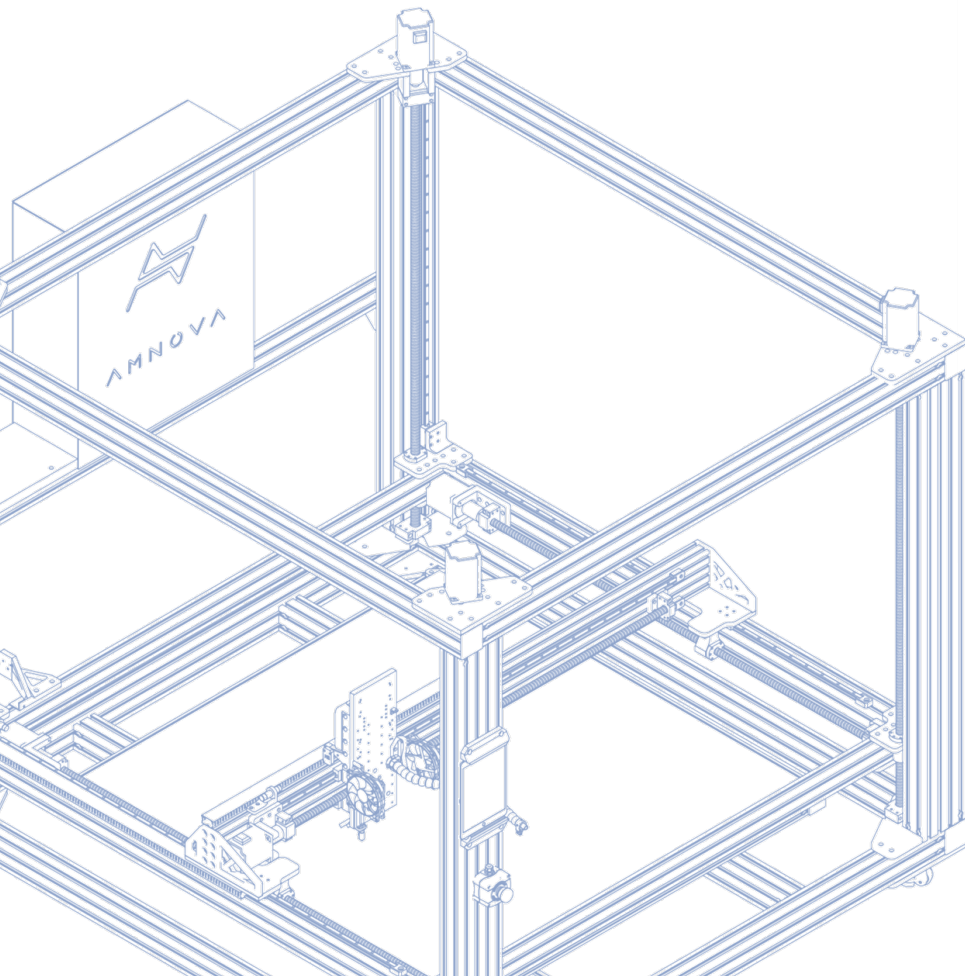
2. The ethical and sustainable industrialization of Africa

Locally Developing and producing manufacturing technologies resulting in job creation and economic growth. The presence of affordable technologies removes the need for foreign outsourcing and reduces supply chain complexity increasing Africa's production independence.



3. Making production accessible to all

The presence of affordable manufacturing technologies and systems will make production services affordable and more accessible to students, startups, SMMEs and established enterprises. We are removing the barrier of entry for innovation.



THE TEAM

Denislav Marinov CEO & Tech Development

Denislav founded Amnova in 2020. Denislav has a background in physics, chemistry and Materials Science from The University of Cape Town. He heads the technological development at Amnova and oversees the overall operations and strategy of the business.



Michael Nothnagel Head of Business Dev

Michael Joined in 2023 and has a background in Private Equity Finance. Michael is heading up our business development and is responsible for developing Amnova's internal digital infrastructure and data management systems.



Alexander October Head of Marketing & Sales

Alexander joined Amnova in 2021. Alexander has a background in Civil Engineering. Alexander is responsible for developing the organizational structure within Amnova and introducing operational procedures and protocols to ensure effective business performance and scalable growth whilst ensuring customer satisfaction.



Technology Development (TD)

Locally manufactured industrial 3D
Printing & Hybrid Technologies

TD Offerings

Commercial

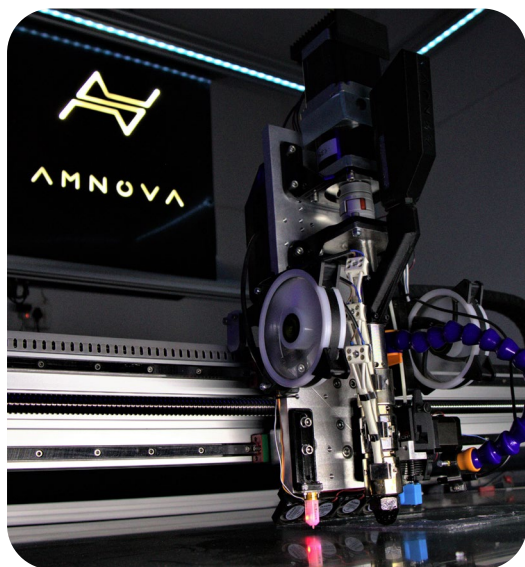
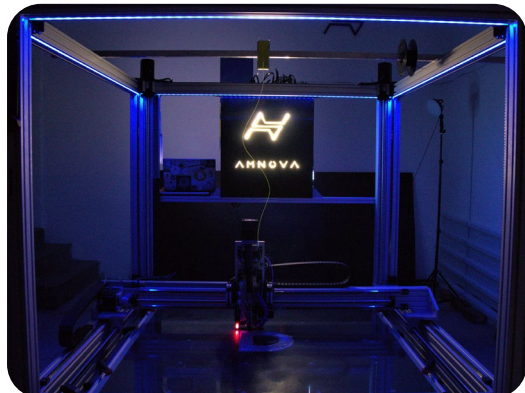
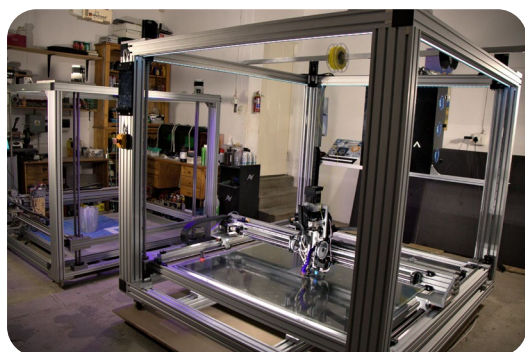
Catalogue of Industrial 3D Printers produce by Amnova.
Standard machines have print volume of 1.2x1.2x1.2m.

Custom

Custom Variations of our 3D Printers to accommodate
larger build volumes, printer features and third-party
system integration.

Bespoke

Bespoke Manufacturing Tech Dev not restricted to
additive manufacturing. Amnova can develop highly
custom and specialised manufacturing systems.



Use TD

Rapid Production Services (RPS)

On demand turnkey production services using
3D Printing & CNC Machining

RPS Offerings

Design

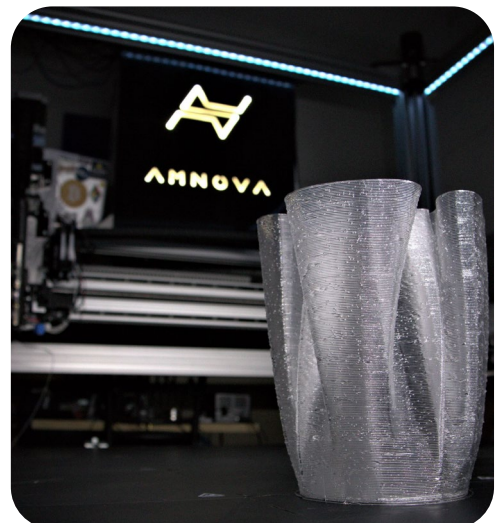
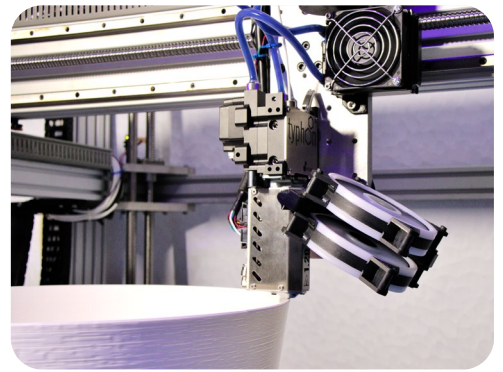
From idea to concept to production ready
CAD design.

Test

Rapid Prototyping and performance testing of components
prior to production.

Make

Production between 1 – 10 000 units. Production services
include industrial 3D Printing and CNC Machining.



Offer RPS



HIGHLIGHTS

COMPANY GROWTH

Completed
+50 Projects

60% Growth in
Production
Capacity

430% Growth in
Production Service
Revenue

AWARDS & GRANTS

2021 – Allan Gray Orbis Foundation Best
Existing business

2020 – SFAN Student Entrepreneur of
the Year Award

2020 – Awarded R140 000 Grant

2019 – Top Student Tech Business EDHE
Intervarsity

2019 – Awarded R150 000 Grant

MILESTONES

2021/22 – Contracted to produce
Bespoke Civil Engineering 3D Printing
system for UCT.

2021 – First commercial unit of our large
format printers sold to US Client.

2018 – Successful first Large Format
Industrial Printer MVP Built.

TESTIMONY

“ We needed to trial a product in the market but didn’t then have the necessary confidence to invest in an expensive injection moulding tool. Amnova made it possible for us to run several small production runs using 3D printed components. This was our first foray into 3D printing for production purposes. It allowed us to make design changes on the fly and avoid what could have otherwise been costly errors. Amnova has been fantastically responsive and has provided great support. ”

*– Ryan Fowler
The Anderson Lid Company*

OUR CLIENTS

We are proud to have provided high quality technologies and production services to our network of local and global clients. We have serviced the likes of:



UNIVERSITY OF
OXFORD



University of
Cape Town

NESCAFÉ



**UNIVERSITIES
SOUTH AFRICA**



ALC



Allan Gray Orbis
Foundation



chronologic



**ROTH
MEDIA**

BEHOLD

RESONATE



THINKROOM



**OURS
OURSPACE**



GRINDSTONE

BOTLHALE
AI SOLUTIONS



**HOT
NOZZLE**



QUILL



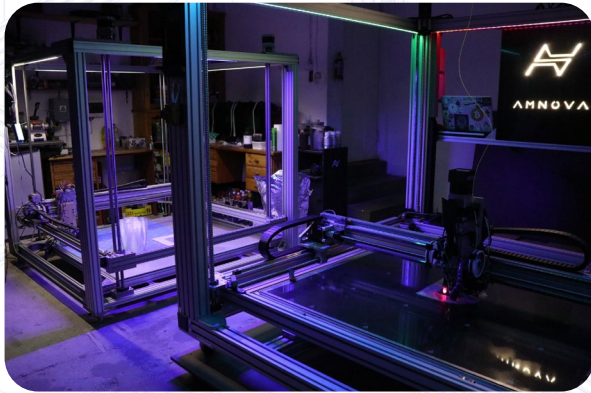
ALARIS
ANTENNAS

NOTEABLE PROJECTS

Big Brother V1.1

We have shipped our first commercial industrial large format 3D Printing system, *Big Brother V1.1*, to our US client. The system is being used to produce props, set and costumes for a variety of series and movies, many of which are produced by *Netflix*. The system contains an industrial thermoplastic pellet extruder capable of extruding high-end polymers up to 500°C.

Year Completed: 2021



Nescafé

We produced 2 meter tall can replicas for Nescafé's nationwide product launch. A hybrid of 3D Printing and traditional manufacturing was utilized to produce the units.

Year Completed: 2019



Animatronics

Amnova designed and developed an animatronic mobile robot to host an SABC 3 show for youth tech education and exposure.

Year Completed: 2021



The Anderson Lid Company

We produced +200 industrial packaging corners used to manage chemicals and agricultural stock during transportation.

Year Completed: 2021



Chronologic Solutions

Amnova redesigned and produced vibration sensor module enclosures installed on manufacturing machinery to monitor system behavior and performance.

Year Completed: 2021

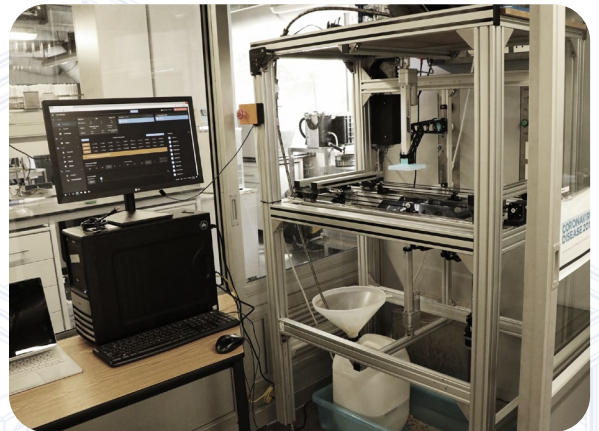
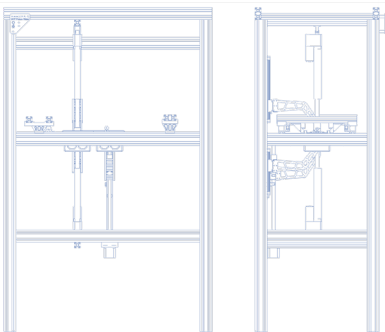


Future Water Labs (UCT) Bespoke System

Amnova developed and manufactured a bespoke binder jetting 3D Printing system for *Future Water Labs* - a UCT Civil Engineering initiative for the sustainable usage and treatment of water.

The development was sponsored by *Anglo Gold Ashanti* and is designed to produce custom eco-friendly bio-tiles produced with special bacteria to avoid the usage of high temperatures involved in conventional tile manufacturing.

Years Active: 2021 - Present

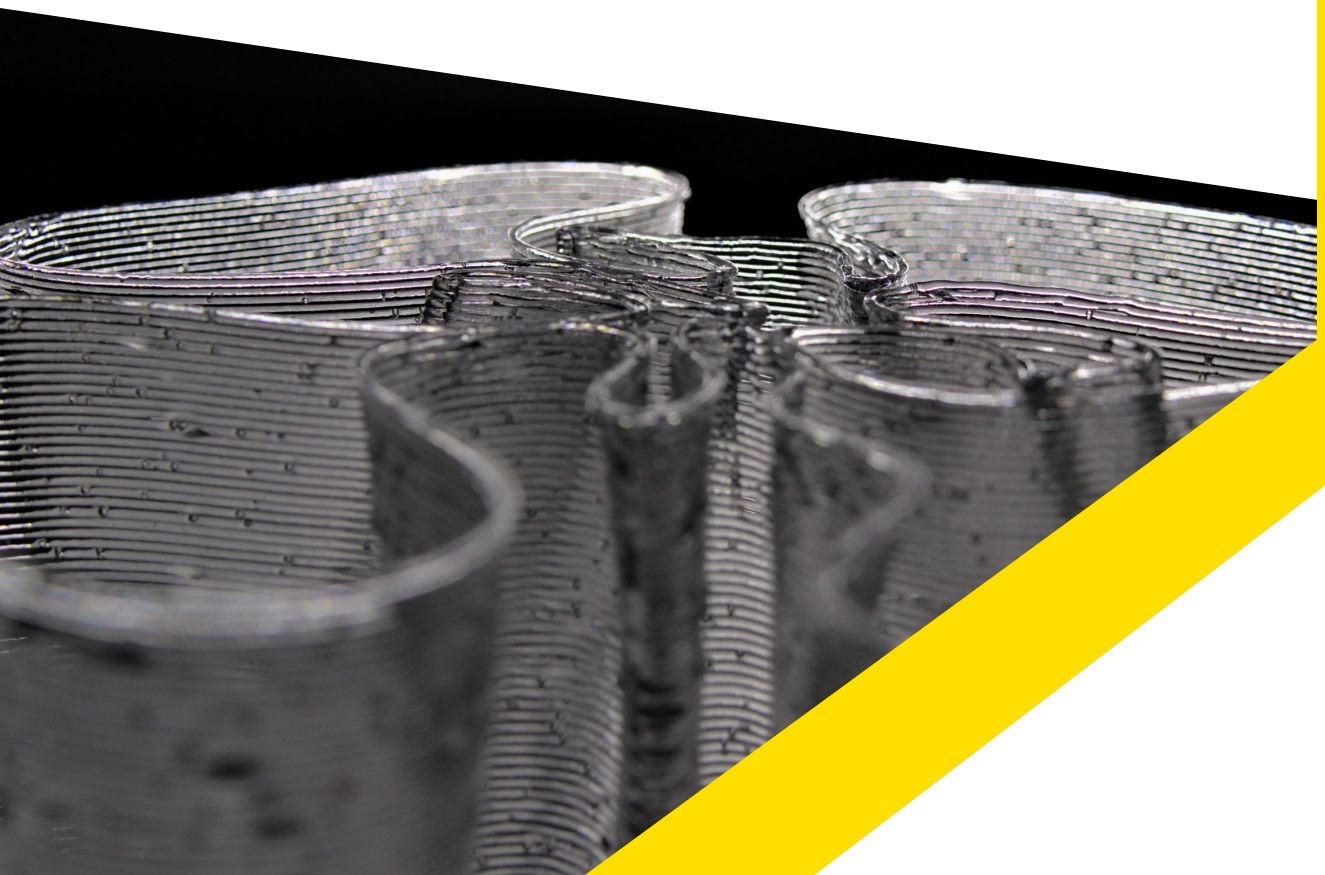


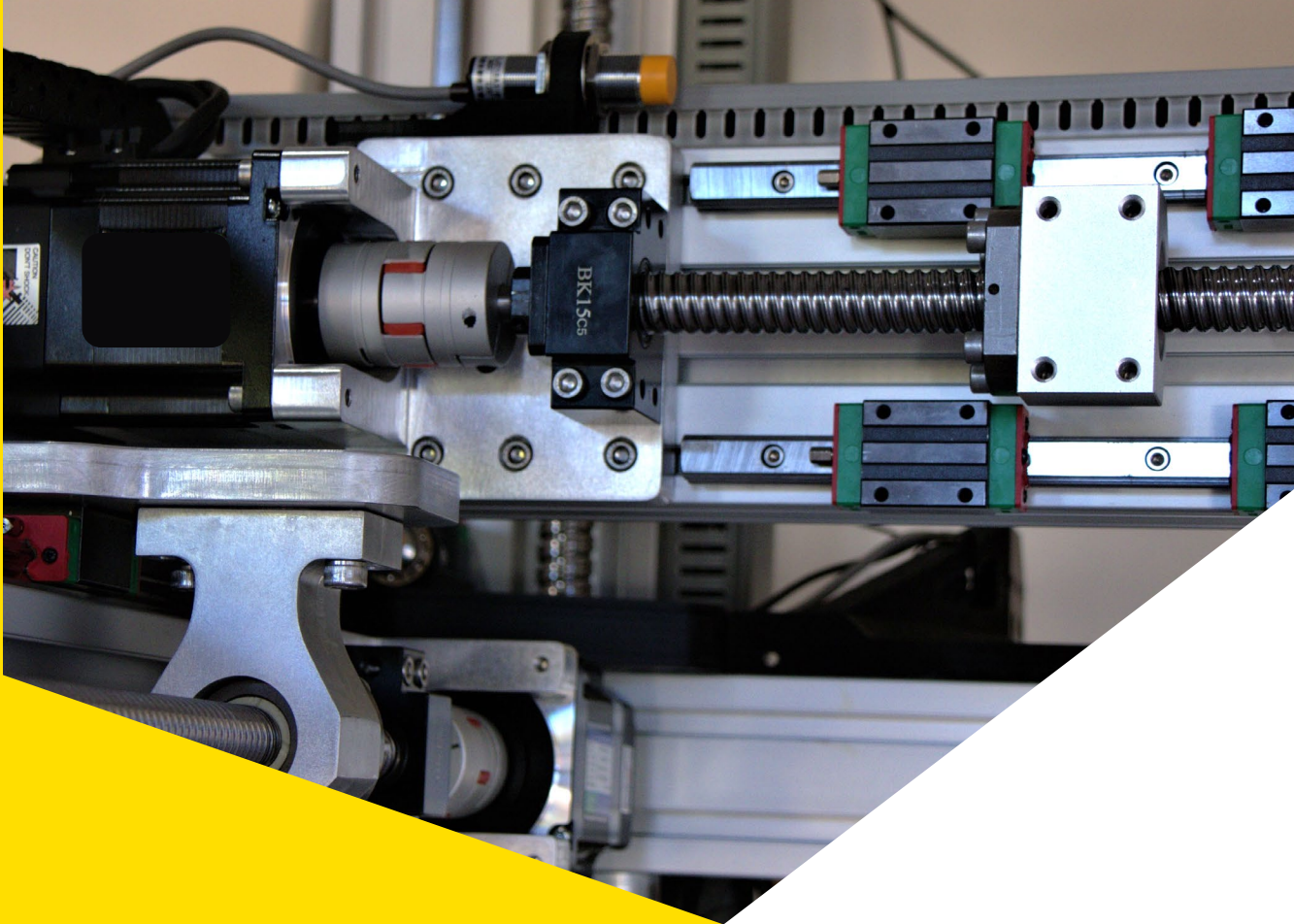
Amnova's End Goal

Smart hybrid production facilities that offer **turnkey** manufacturing services

Next Steps for Amnova achieving this involve:

1. Continued R&D and the commercialization of larger industrial Hybrid 3D Printing and manufacturing systems.
2. Introducing more manufacturing services to complement 3D Printing and enhance production efficiency.
3. Introduce AI powered and IoT machine monitoring systems to semi-automate and streamline production whilst proactively preventing production failure.





WHY AMNOVA?

Amnova is a startup that is built by a group of talented, young and enthusiastic engineers, scientists and innovators who value sustainability and technology accessibility. We have been developing our technologies for over 8 years prior to forming our company. With our tech, we have serviced numerous local and international clients and completed projects for companies such as Nescafe, The University of Oxford, The University of Cape Town and many more. Our focus is on growing the African economy and increasing local production capacity. We strive to help Africa become a global leader in manufacturing and advanced technological developments.

We continue to grow and produce tech that both excites us and advances Africa's and humanity's production capabilities.

AMNOVA



CONTACT US

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