



1000 KELVIN

# Industrial Grade Additive Manufacturing with AI

AMAIZE enables anyone to print first-time-right any complex components of any material

## Who we are

At 1000 Kelvin, we are changing the paradigm of trial and errors, high scrap rate and limited quality in additive manufacturing (AM) with a first-time-right, easy to use and intuitive AI technology.

1000 Kelvin was founded by a team of scientists and experts in AI and Additive Manufacturing, located in Berlin.

1000 Kelvin enables aerospace, medical, and industrial manufacturing companies to print metal parts 'first-time-right', dramatically improving the yield, quality and repeatability while reducing printing costs and CO2 emissions.

## Our Product: AMAIZE

Our software AMAIZE is an easy-to-use SaaS software requires no previous experience in deploying AI to the production workflow and enables users achieve higher quality manufacturing recipe in short time.

Using our AI, manufacturers can digitally analyse the job file in minutes before physical print, detecting problematic regions and vectors on each layer.

AMAIZE also corrects the file to eliminate overheating and distortions and generates an executable that can be used directly on the machine at scale.

1000 Kelvin technology is a proven solution integrated with leading OEMs.

## What Make Us Better

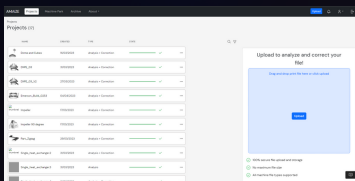
Compared to competitor's solutions, AMAIZE provides customer detailed analysis at the vector and region level unlocking valuable insights. More importantly, we provide actionable solutions. Our product suggests corrections to the scan strategy adapted to the need of the customers. Ultimately, we generate industrial grade, print ready executable files to be consumed by the machine to achieve the first-time-right.

1000Kelvin software is designed for scalability. Users can rapidly scale AMAIZE across different cases, machines and locations with a centralised data management system.

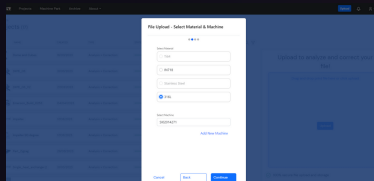
AMAIZE can run in public or private cloud providing customer with flexibility without compromising on the compute advantage.

## How AMAIZE works

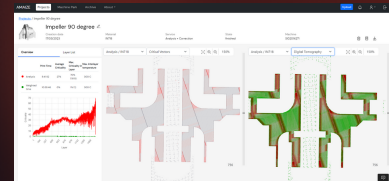
### Import Geometry



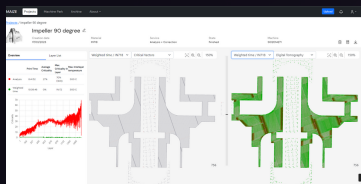
### Select Material & Machine



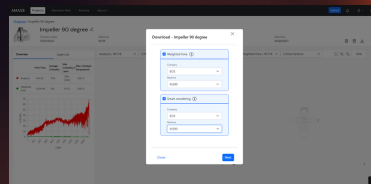
### Detect Problematic Regions



### Apply Correction



### Verify and Print



We are a one-stop shop AI-driven solution to predict quality issues, perform corrections on the scan strategy, validate the corrections and generate industrial grade, ready-to-use print file.