



smart software
for additive manufacturers

Who are Valuechain?

We provide smart manufacturing software to build world class supply chains. Our productivity, collaboration and intelligence solutions enable organisations to improve competitiveness and become Industry 4.0 ready.

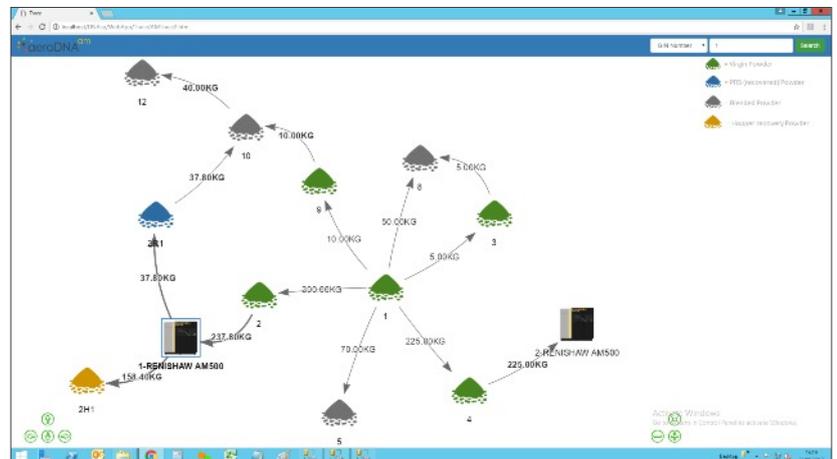
What is DNA^{am}?

Additive manufacturing is quickly emerging as a disruptive technology in advanced manufacturing sectors by enabling agile manufacture of complex components, whilst significantly reducing material waste. Companies of all sizes are investing in state-of-the-art additive manufacturing machines. However, ERP systems have failed to keep up with the specialised demands for additive manufacturing. Until now.

Valuechain has developed **DNA^{am}** for additive manufacturers, as an integrated module or turnkey solution, to simplify technical and quality system compliance and improve AM plant utilisation. **DNA^{am}** generates business intelligence by streamlining complex additive manufacturing business processes through one integrated and user-friendly solution.

DNA^{am} manages AM build planning and provides complete powder traceability, with batch splitting, control of blending and powder recovery management.

- comprehensive inventory management
- visual trace of every split, blend & build
- issue controlled build file management
- consumables inventory control
- chemical analysis & test result records
- powder status & locations
- tooling & equipment management
- comprehensive quality control
- inclusions reporting

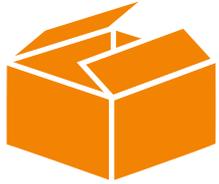


DNA^{am} provides comprehensive powder traceability and usage at the click of a button.

Why DNA^{am}?

Everything you need, in one place

The build file management within **DNA^{am}** allows you to link detailed build files, 3D drawings and programme files to the AM parts, and can even be used to share the correct version to shopfloor machines to ensure the latest issue is always in use.

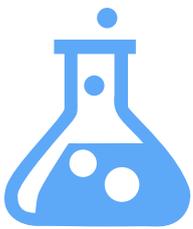
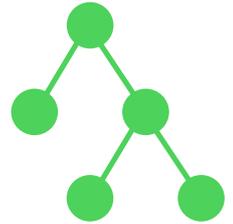


Complete control over your inventory

Whether it's consumables like cathodes and inert gases, or the titanium powder used for your builds, you can always be sure that **DNA^{am}** maintains full stock details. Attach incoming powder certificates, test results and chemical analysis from your suppliers to each batch you receive.

Visible powder traceability

With our revolutionary 'trace' functionality, you can see at the click of a button where any batch of powder originated, whether it has been split or blended once or many times, and which builds it has been used in - giving you complete traceability.



Access full chemical analysis records

The chemical make-up of every powder batch can be recorded, and is easily accessible to your production team and operators as required. Test results for any powder samples or test pieces can also be added, to ensure you know the chemical make-up and oxygen levels before deciding the best batches to blend.

Manage blending and splitting

Whether it is virgin powder or from your powder recovery system, you need to ensure the correct batches are combined in the correct proportions. **DNA^{am}** generates blend orders with auto-prompts for homogenising powder and sending samples for testing to ensure the whole process is completed correctly and efficiently.



Additive manufacture made easy

The **DNA^{am}** solution can be used in conjunction with our range of DNA production control systems to provide a turnkey solution or it can be integrated with your existing ERP system to cater for the specific requirements of additive manufacture. We have recently implemented **DNA^{am}** to streamline and automate the production control processes for the Airbus additive manufacturing facility in Filton; contact us to learn how you too can embed best practice additive manufacturing processes within your business.



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