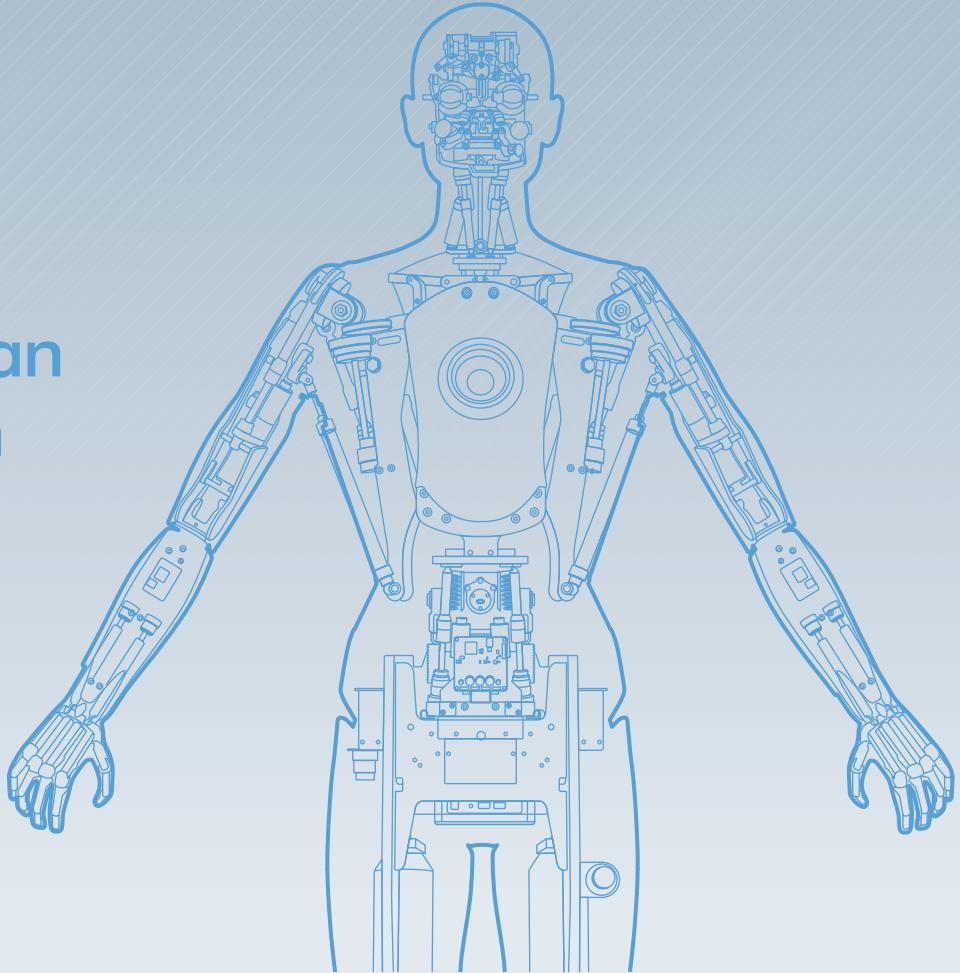
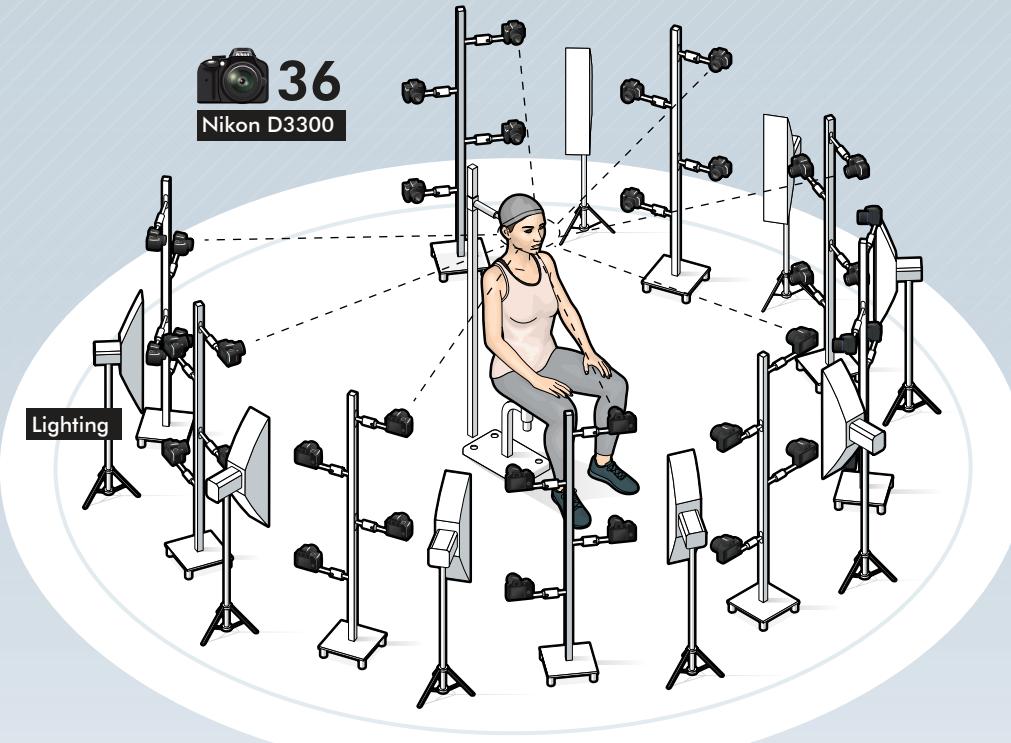


Process of creating an **AMECA** robot skin

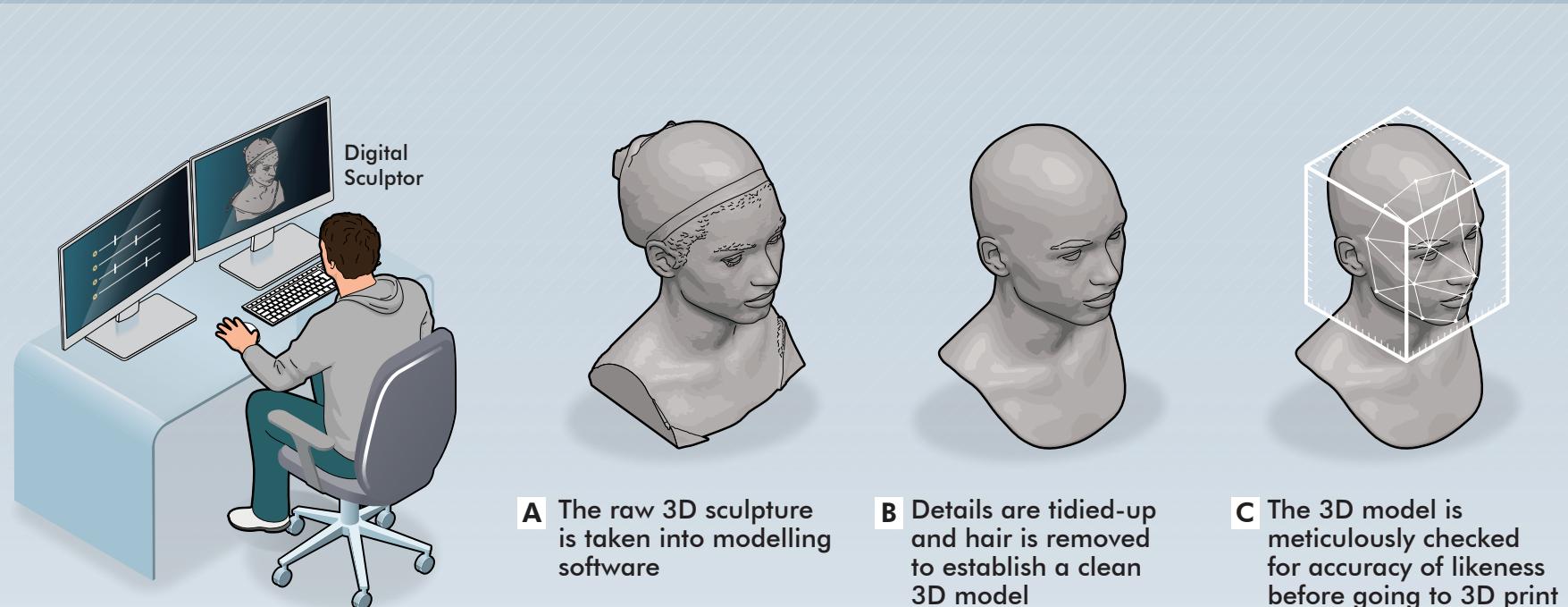


Stage 1 Photogrammetry

- 1 Face model is seated in the middle of the photogrammetry rig
- 2 36 high resolution digital cameras take simultaneous photos at every angle of the subject
- 3 Photogrammetry software analyses the overlapping photos and creates a 3D surface
- 4 Key facial poses are captured for mould, mechanics and animation design

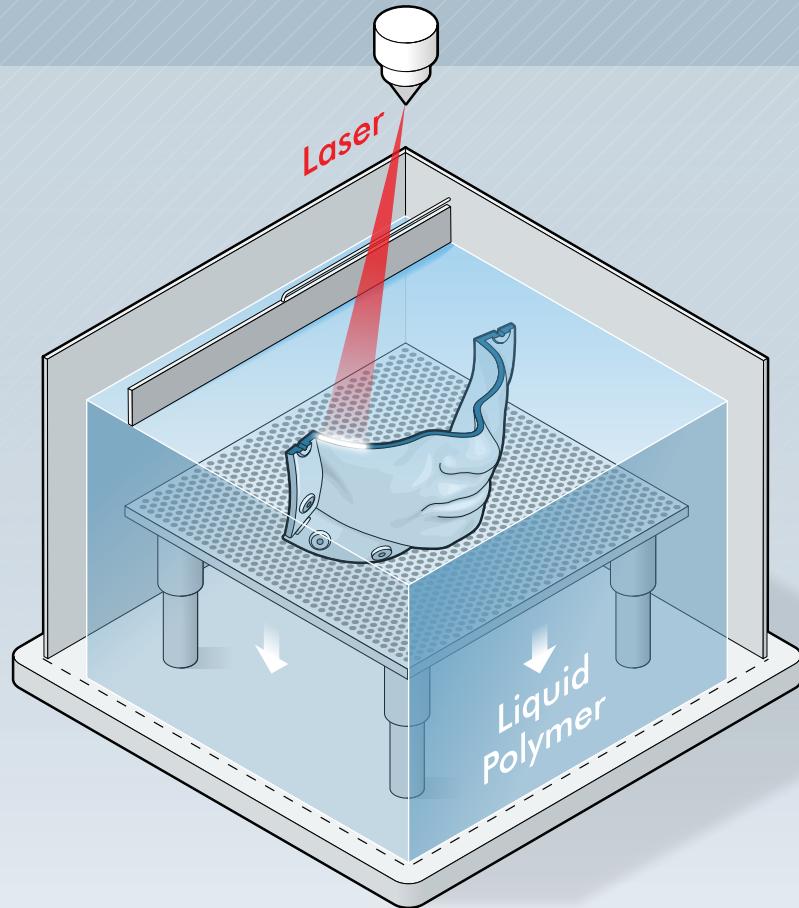


Stage 2 3D Modelling



Stage 3 3D Printing

An accurate mould of the digital model is produced on a stereolithography 3D printer

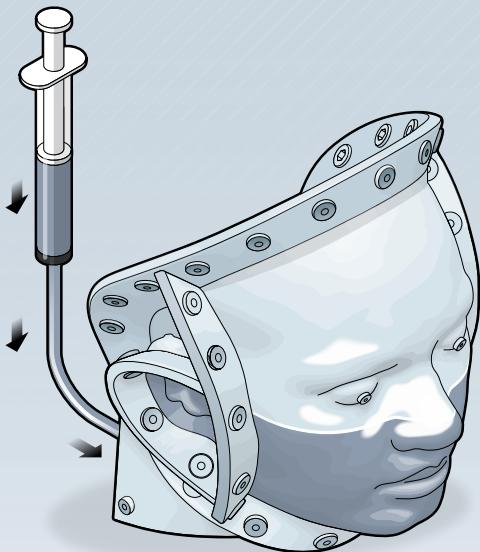


Stage 4 Moulding and Detail

ENGINEERED ARTS

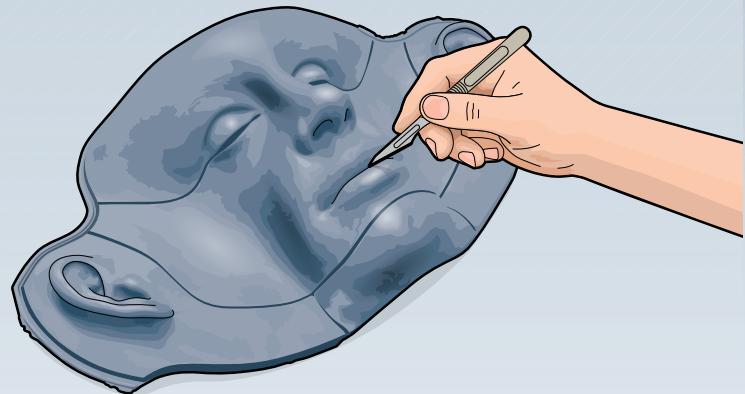
Moulding

Silicone is injected into the mould to create the life like skin for the robot



Detail

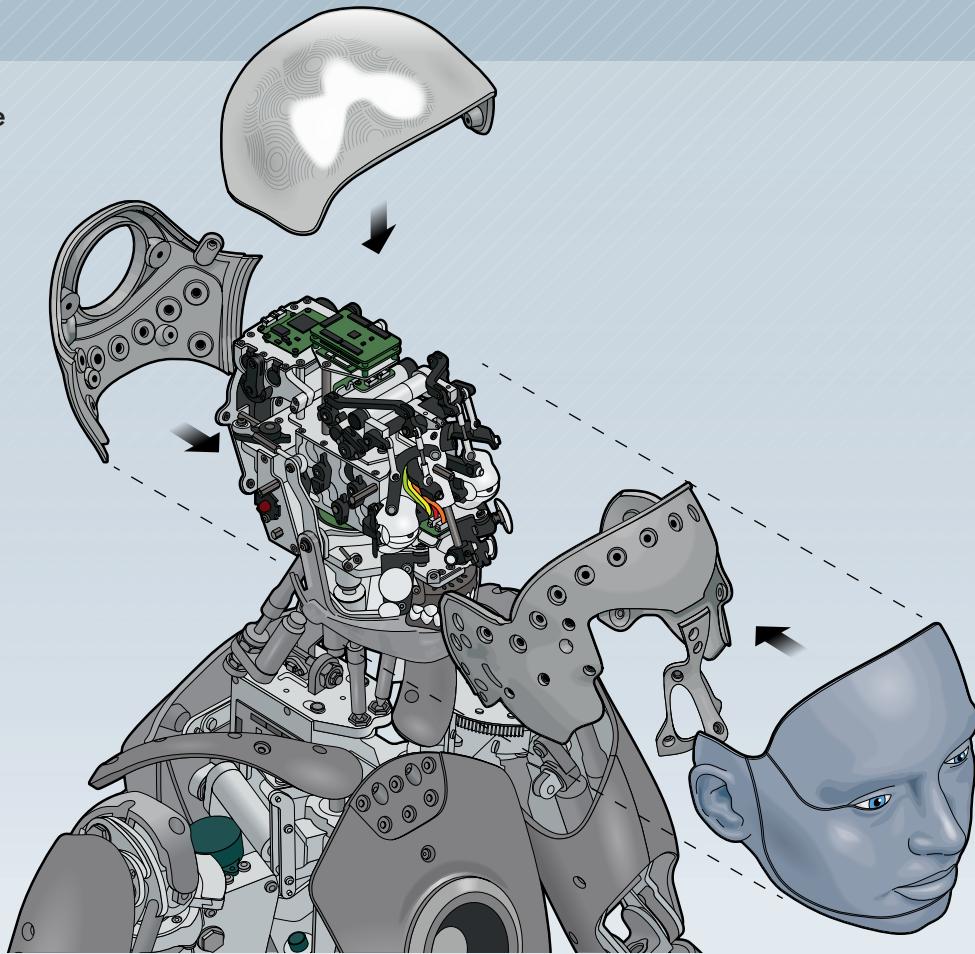
Skin is de-seamed and detailed by hand



Stage 5 Mechanics

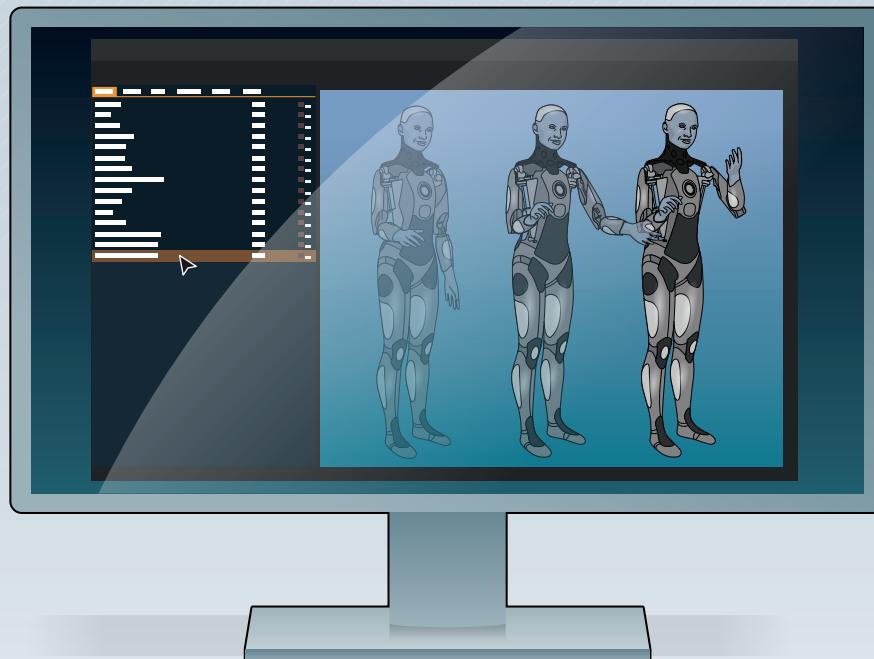
ENGINEERED ARTS

The silicone skin is placed over the Ameca robotic head to complete final assembly



Stage 6 Animation and Sound

Movement sequences and sound is then added using Engineered Arts' powerful cloud software virtual robot



Stage 7 Final Product

Ameca is installed to client's requirements
ready to wow visitors

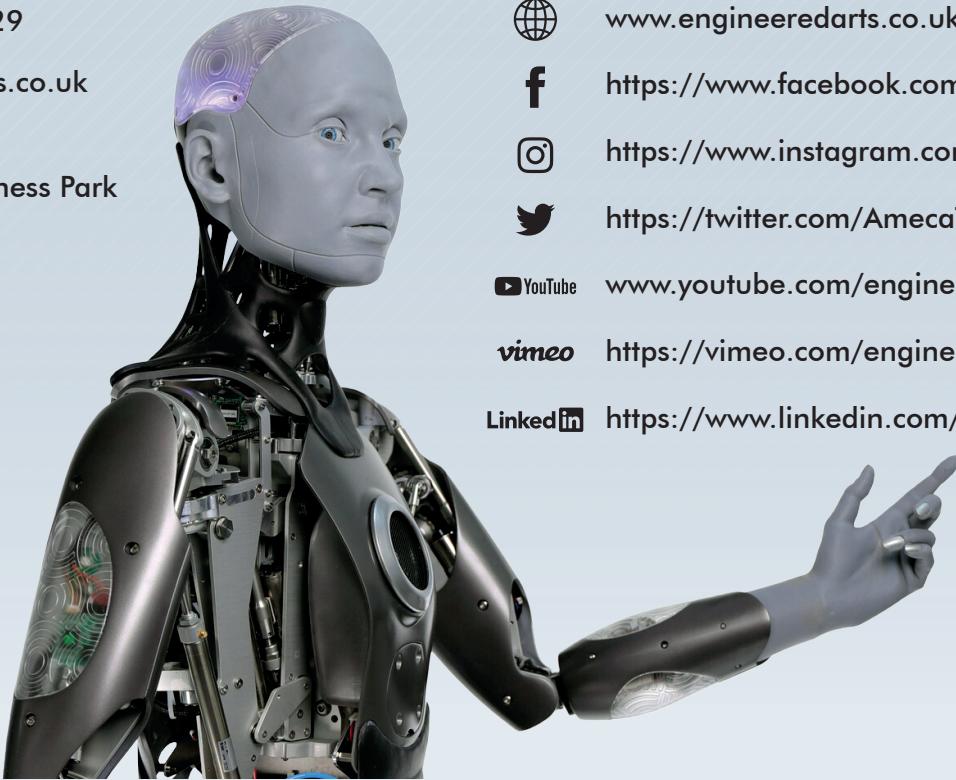


Contact Details

📞 +44 (0) 1326 378129

✉️ info@engineeredarts.co.uk

Engineered Arts Limited
E1-E3 Church View Business Park
Bickland Water Road
Falmouth
Cornwall
TR11 4FZ
United Kingdom



Social Media

🌐 www.engineeredarts.co.uk/robot/ameca/

FACEBOOK <https://www.facebook.com/AmecaTheRobot/>

INSTAGRAM <https://www.instagram.com/amecatherobot/>

TWITTER <https://twitter.com/AmecaTheRobot>

YOUTUBE www.youtube.com/engineeredarts

VIMEO <https://vimeo.com/engineeredarts>

LINKEDIN <https://www.linkedin.com/company/engineered-arts-ltd/>