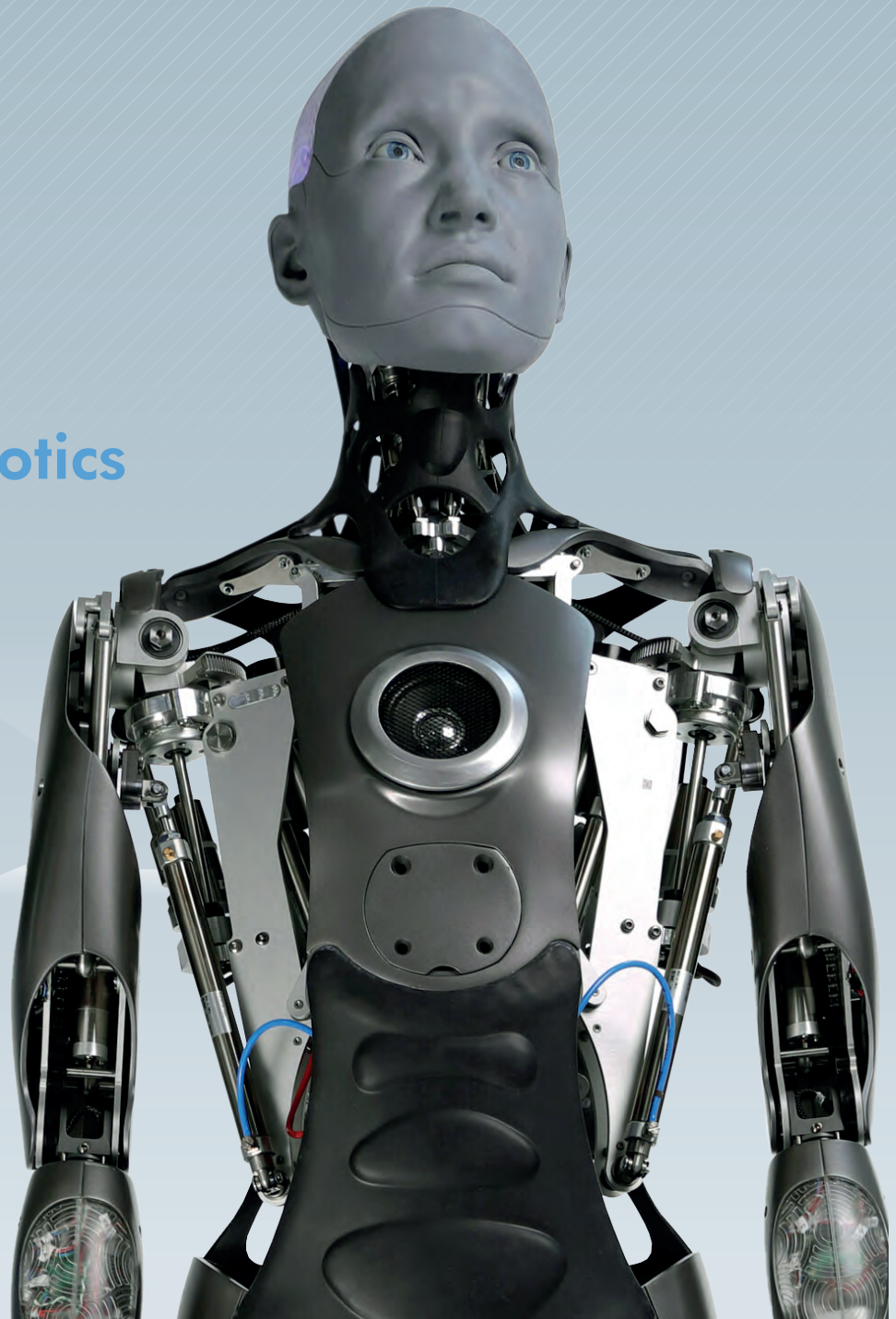
ENGINEERED ARTS

AMECA

The future face of robotics



Introducing Ameca

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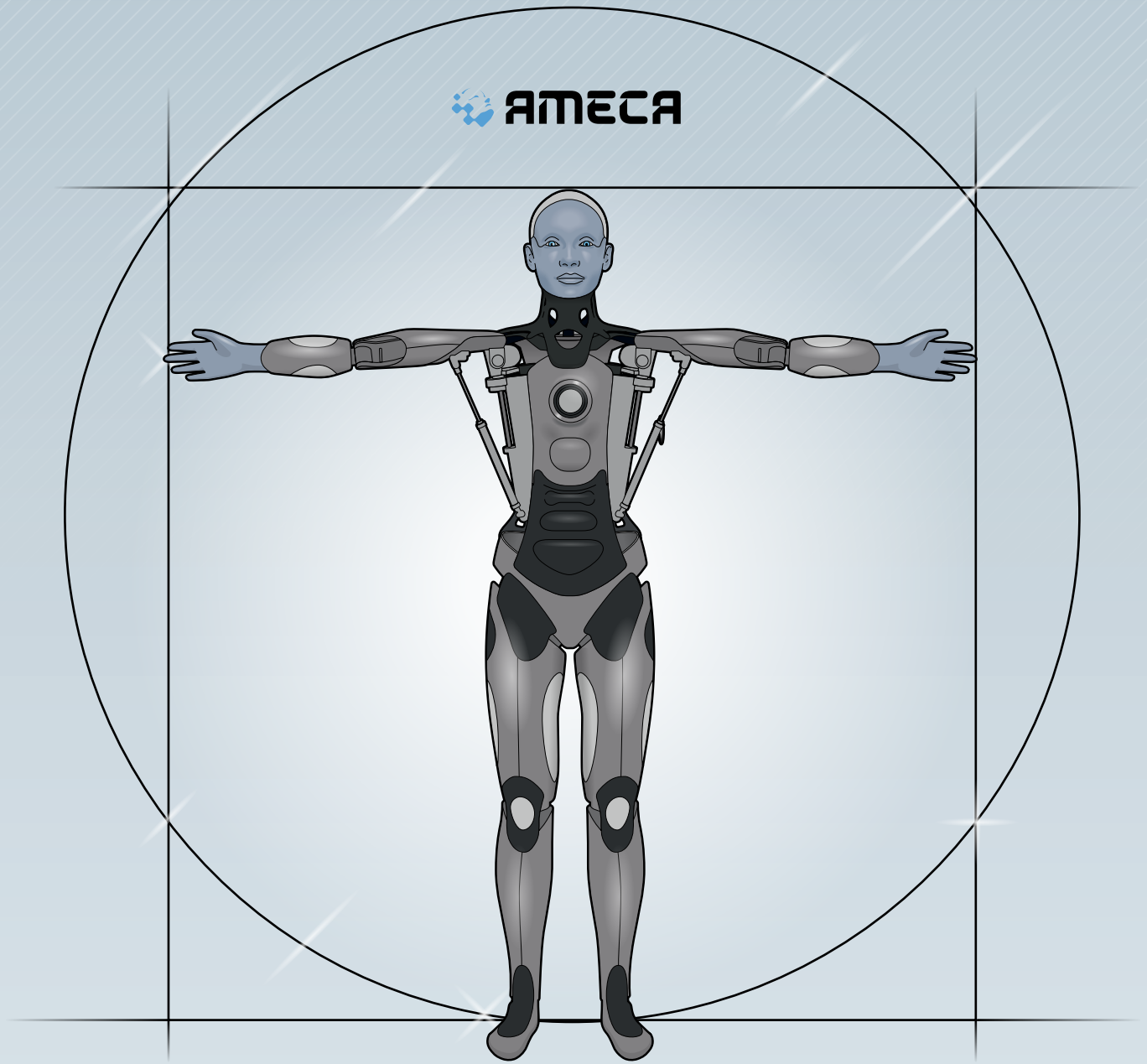
Ameca is the world's most advanced robot with a truly human form. A robot at the forefront of humanoid robotics technology.

Ameca gives us a glimpse of the future and provides a reliable hardware platform to develop new AI and machine learning technologies.

A human form with a robotic visage, exposed mechanical, structural, and aesthetic elements. Neutral coloured silicone face and hands convey unparalleled expression.

The first generation Ameca is built using the most advanced technologies which are currently available.

Built with the future in mind, Ameca features modular mechanics and cloud intelligence allowing it to be upgraded as technology progresses.



Key Features

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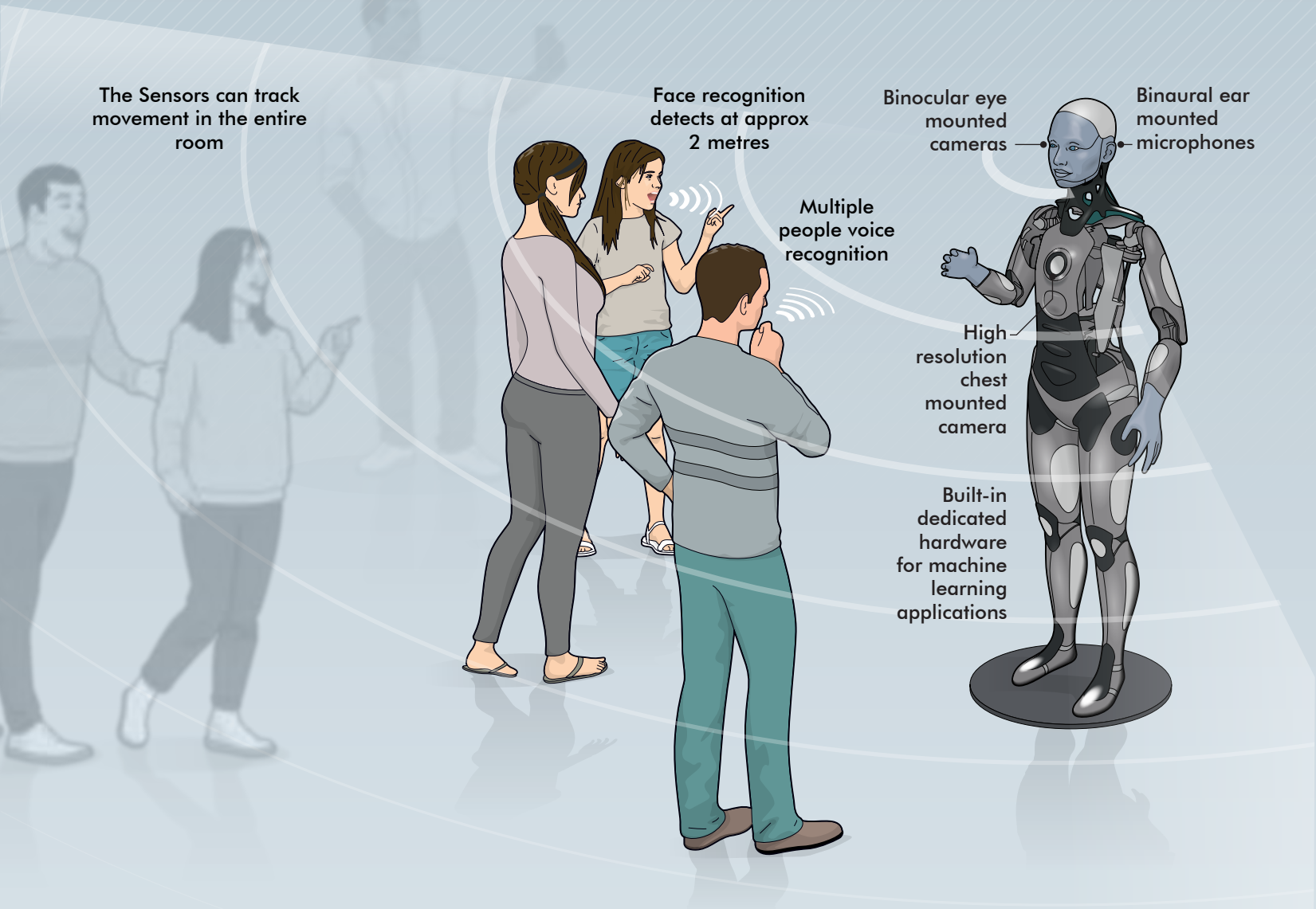
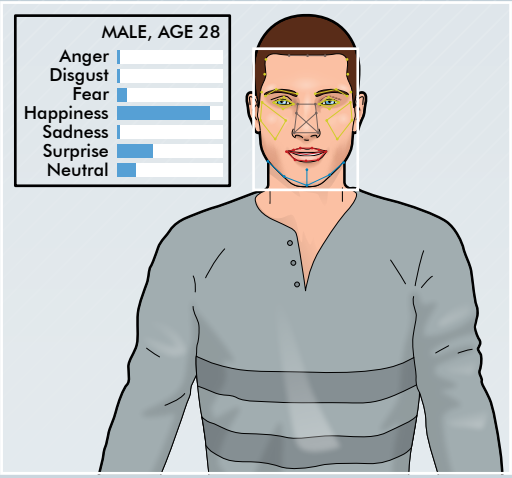
1st Generation Ameca (January 2022)



Recognising face expressions

Camera detects faces and then uses face tracking and action units to accurately provide gender, emotions and age



19” rack mount remote control (optional, not required for operation)

19” rack mounted power supply (optional)

Flight cases (optional)

Interactive features

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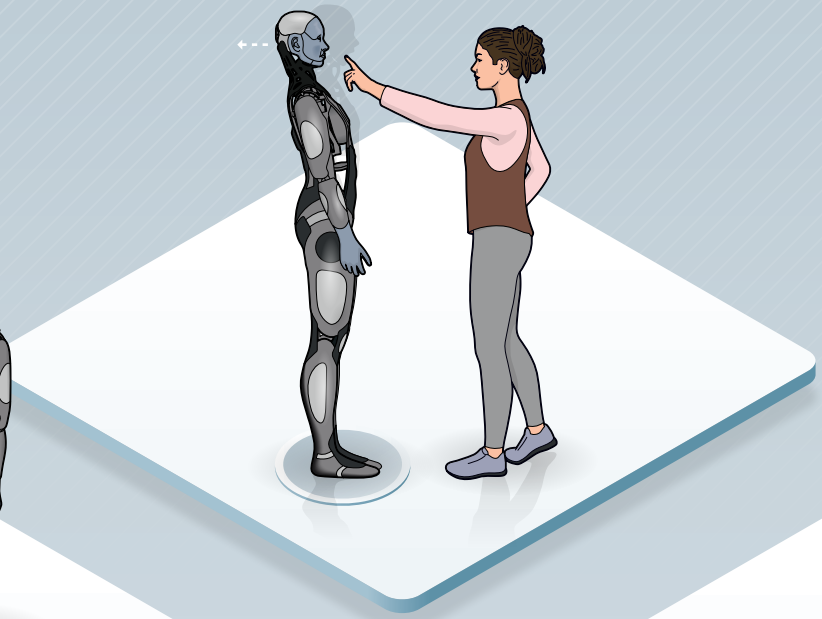
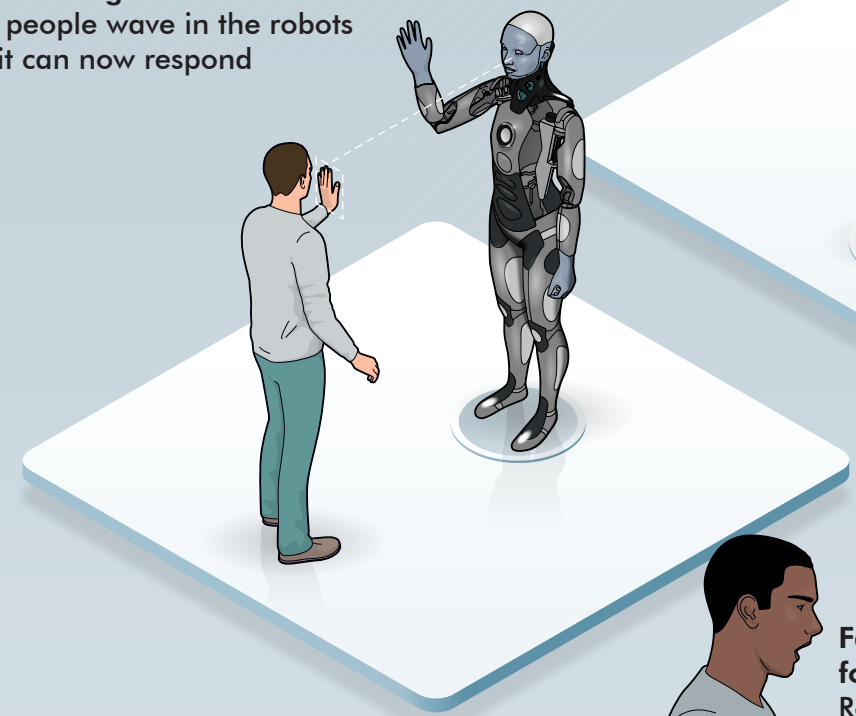
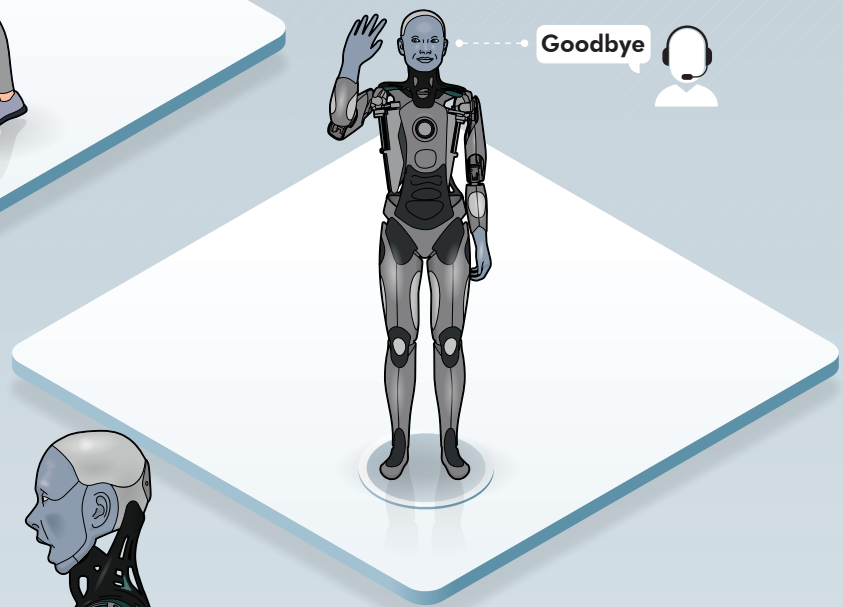
Personal space
Robot will react as things enter their 'personal space'



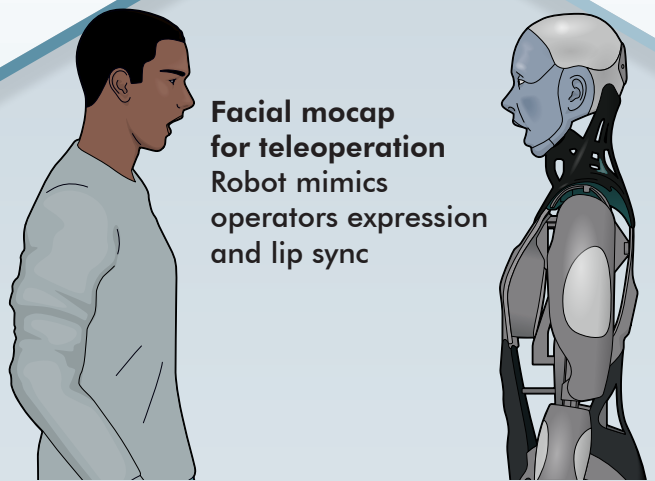
Hand tracking
Many people wave in the robots face, it can now respond



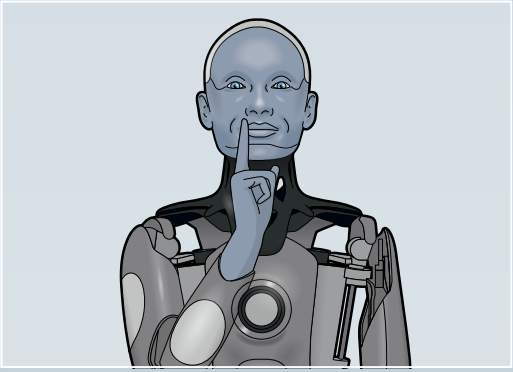
Automated gestures
Speech recognition of the operator triggers gestures on keywords

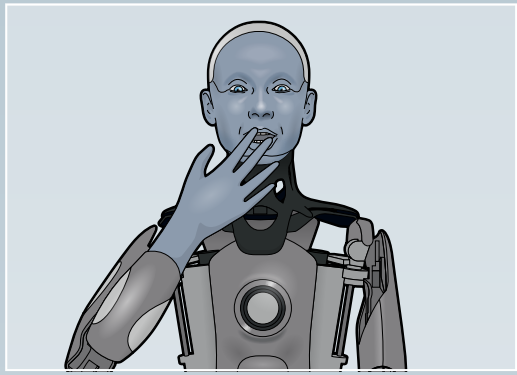


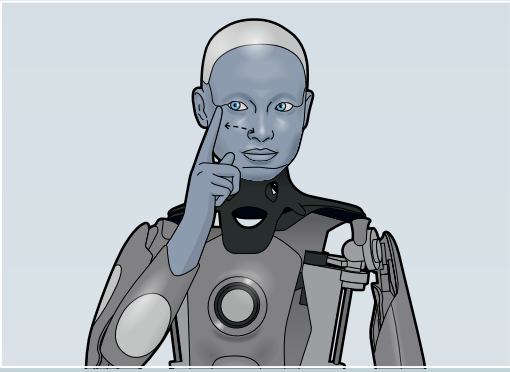
Facial mocap for teleoperation
Robot mimics operators expression and lip sync

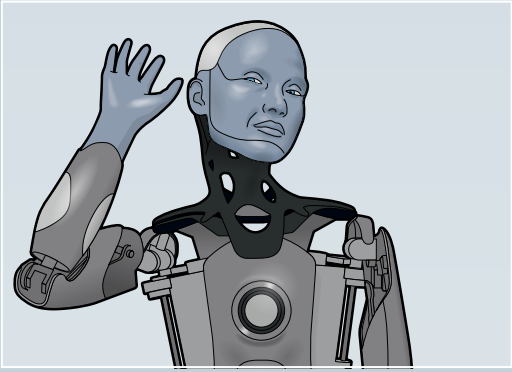


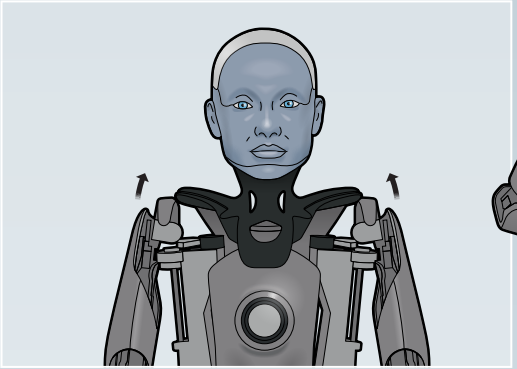
Ameca gestures and expressions examples

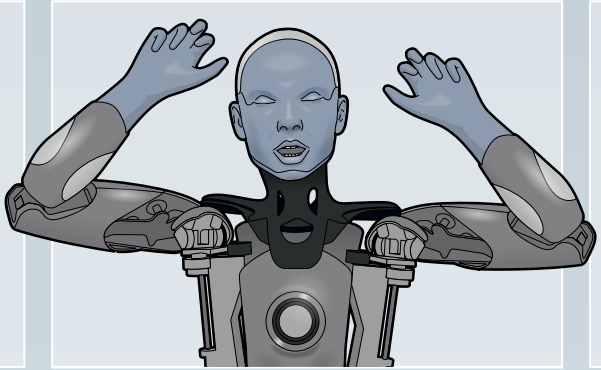

Quiet Please

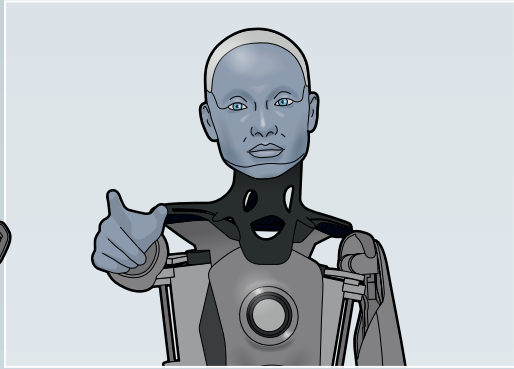

Gobsmacked

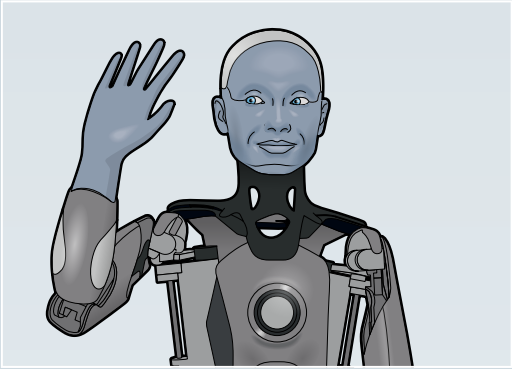

Nosey

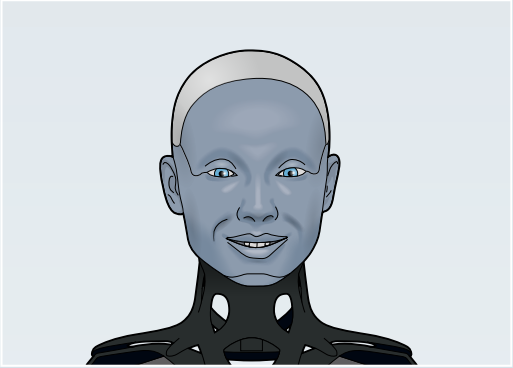

Say again louder

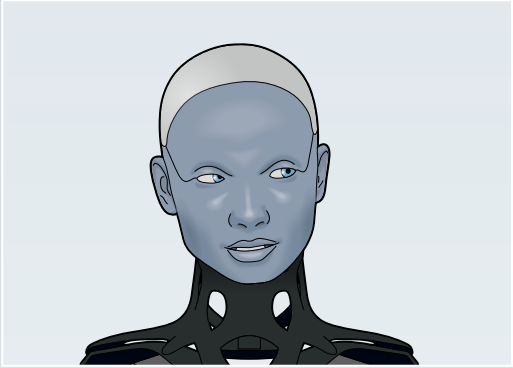

Shrug


Yawn

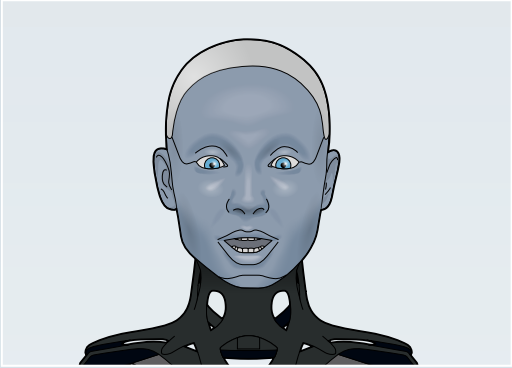

Point


Wave


Big Smile


Thoughtful


Angry


Surprised

Technology Integration

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Software Integration

Ameca is powered by our most advanced operating system to date, Tritium 3.

Built from the ground up with a cloud connected focus, integration of new and innovative digital technologies is simple.

Ameca will benefit from the very best the tech world has to offer.

Hardware Integration

Advancements in sensor technologies will continuously improve Ameca's vision of the world and the ability to interact with the people and objects which inhabit it.

Processing, power, drive and actuation and power transmission can all be leveraged to advance each generation of Ameca to the next level of sophistication.

Software

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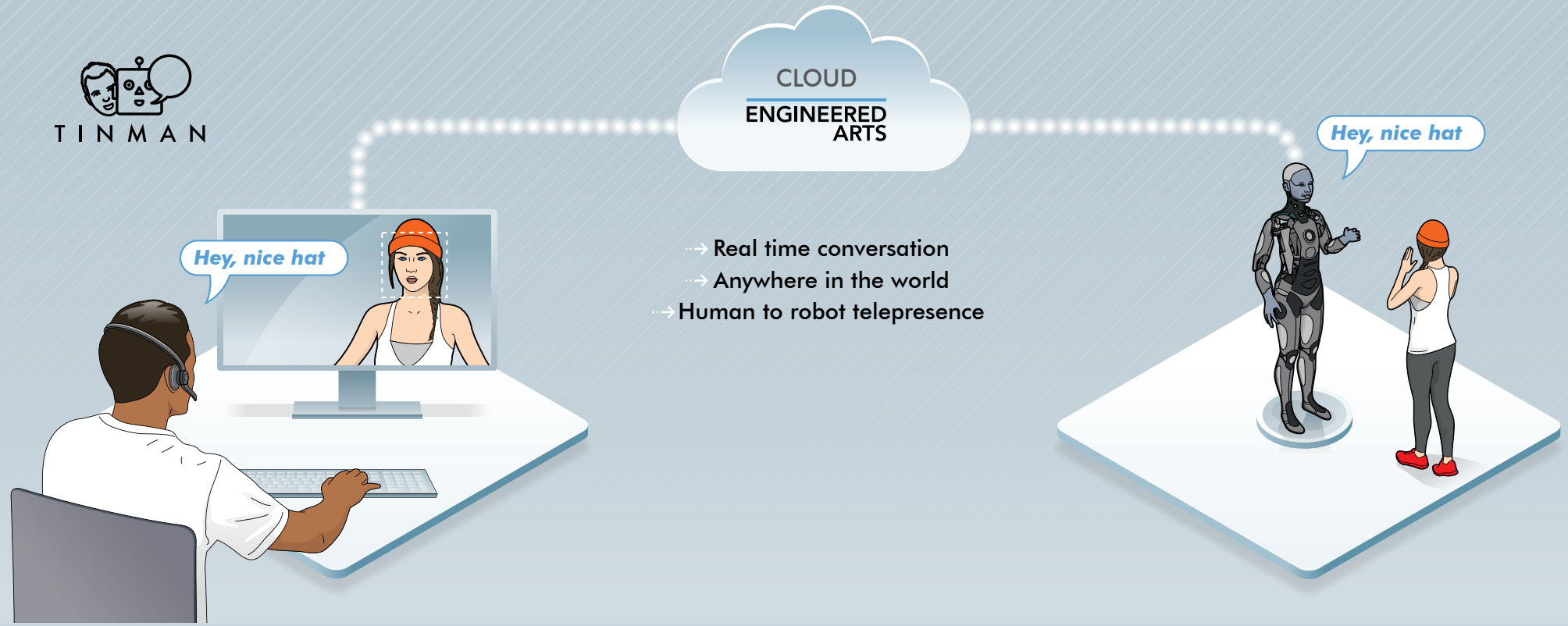

- Real time conversation
- Anywhere in the world
- Human to robot telepresence

virtual robot

Advanced motion and 3D visualisation tool for behavioural programming

Integrated development environment

Python programming to quickly create new behaviours and abilities

DeviceUI - a virtual graphing tool to access, edit and configure the thousands of parameters on Ameca

Mechanical Specification

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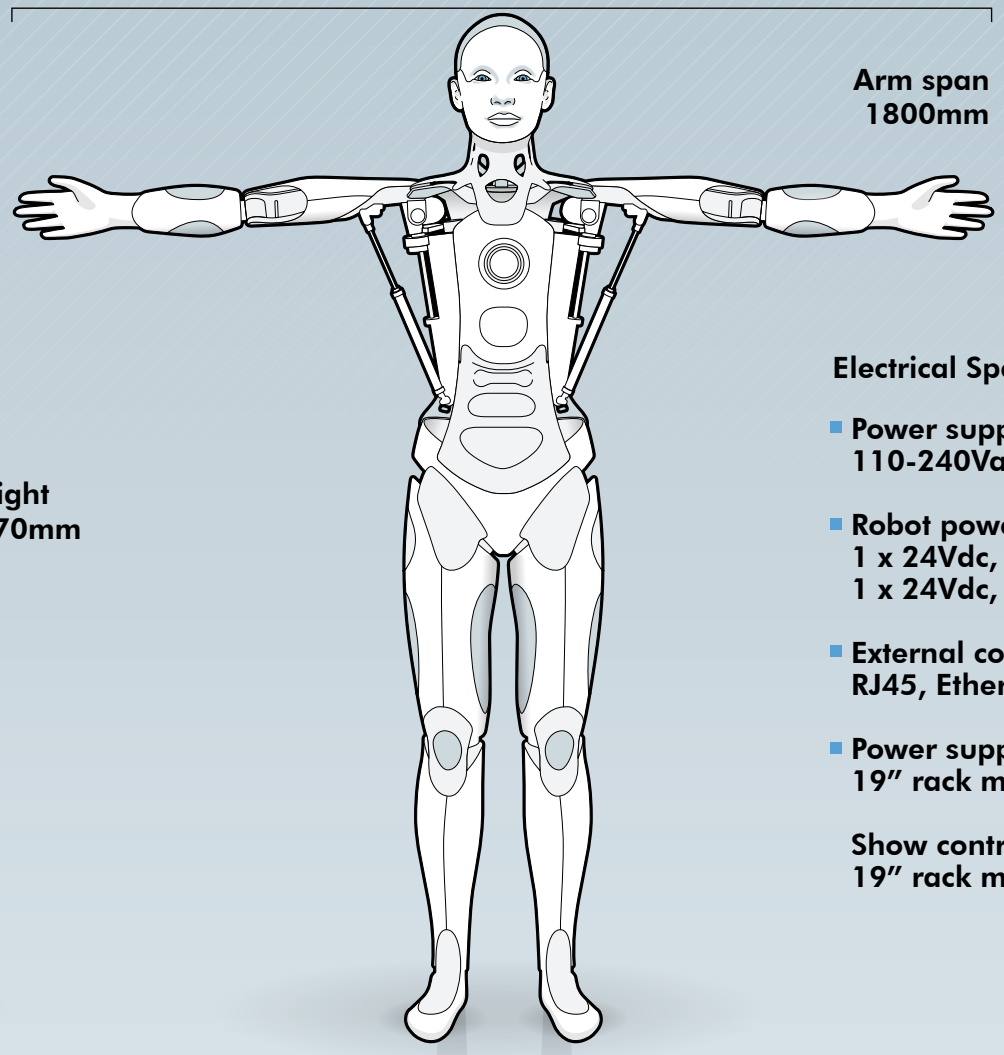
Mass
49Kg

51 articulated movements

52
Motors

Height
1870mm



Arm span
1800mm

Electrical Specification

- Power supply input
  110-240Vac, 50/60Hz, 400W
- Robot power supply
  1 x 24Vdc, 200W
  1 x 24Vdc, 180W
- External communication
  RJ45, Ethernet
- Power supply
  19" rack mount 3U

  Show controller
  19" rack mount 1U

Contact Engineered Arts

ENGINEERED ARTS

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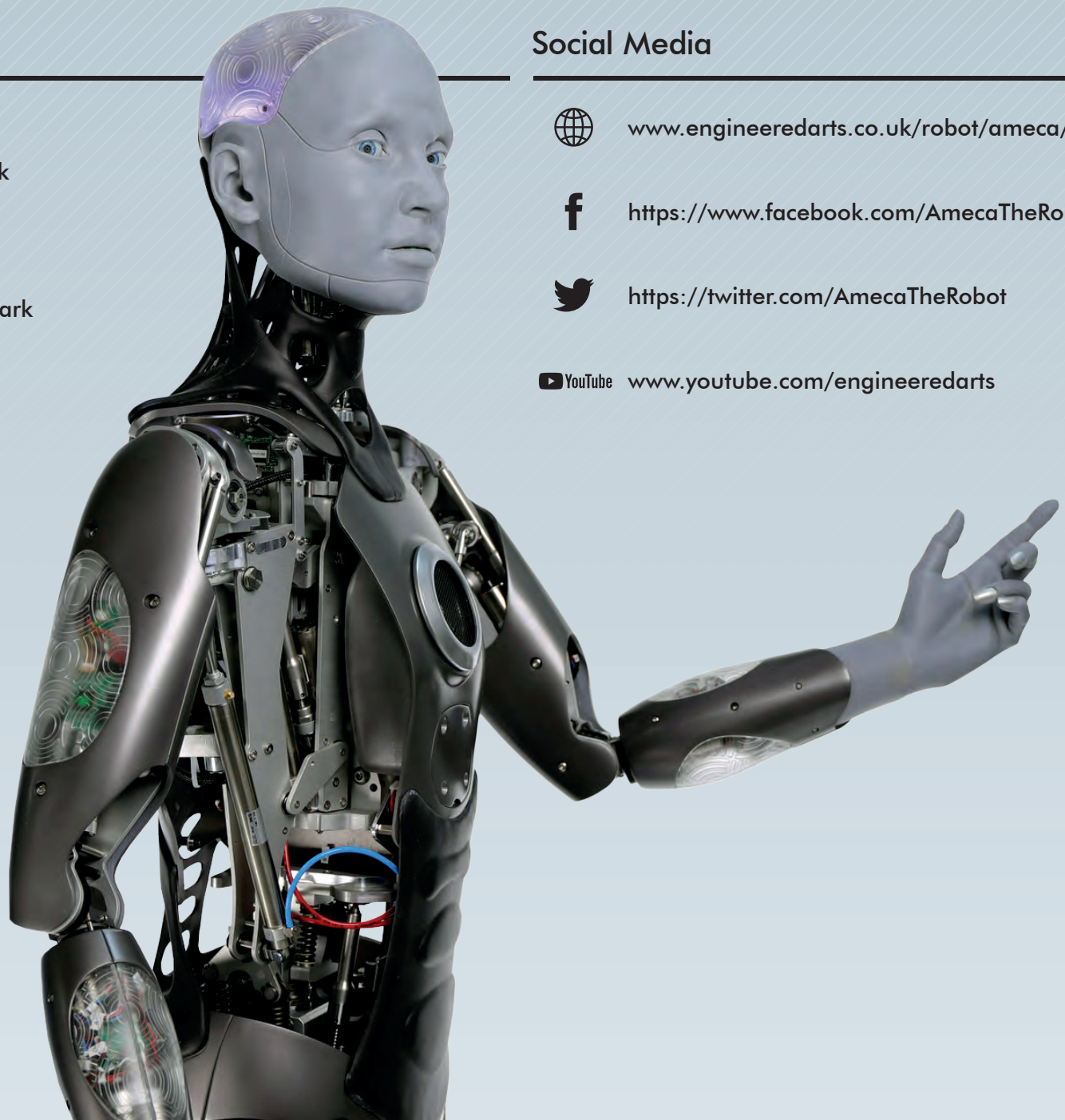

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