

*“What truly sets the Adaptix 3D X-ray scanner apart is the efficiency and speed...the results have been nothing short of exceptional...optimises our workflow and has revolutionised our counterfeit detection procedures.”*

Benchtop  
3D X-ray in  
seconds

AZEGO TS LTD, Head of  
Technical Services



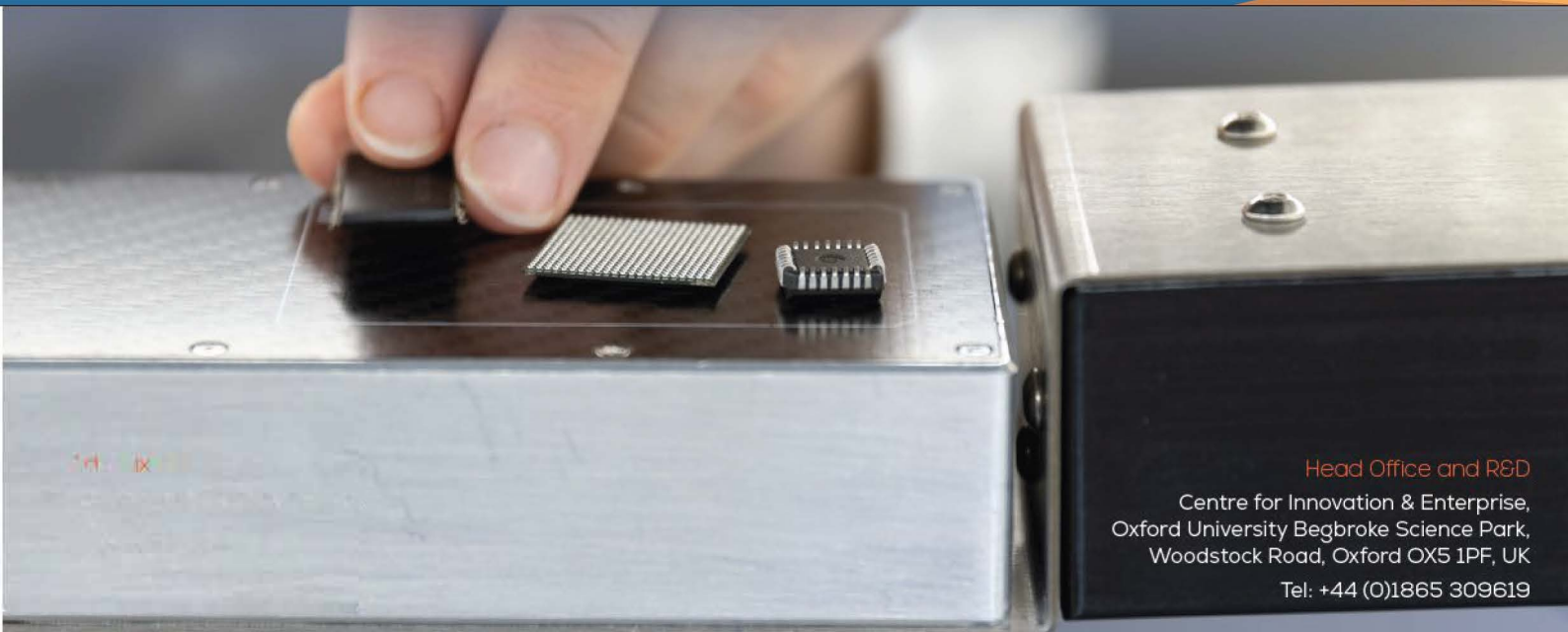
# In-house 3D testing allowing differentiation and transformation of inspection economics:

- Compressing inspection cycles
- Enhancing risk management
- Reducing inventory holding; and
- Reducing operating costs



Meets the X-ray resolution requirements of MIL-STD-883K and AS6171

Provided and supported by  **SEMPRE**  
CONNECTED METROLOGY



Head Office and R&D  
Centre for Innovation & Enterprise,  
Oxford University Begbroke Science Park,  
Woodstock Road, Oxford OX5 1PF, UK  
Tel: +44 (0)1865 309619



# System features

Dual-detector plus optical capture with cloud service.

## COMPONENT INSPECTION

195-micron, high-res, detector (46 x 6.7 cm), where a single 30 X-ray.

- Fits within the MIL-STD-883K and AS6081 25-micron resolution requirement for X-ray inspection
- Mostly fits the full batch of samples onto the detector
- Identify die surface damage which 20 X-ray can't

## 'INTELLIGENT INSPECTION'

Large detector (36 x 43 cm active area) to 30 X-ray.

- Boxes of trays of chips (32 x 17 cm)
- Stacks of reels (up to the 33 cm diameter large reels)
- **Visualise missing or variant components**
- Informed choice of which samples to inspect
- Additionally inspects devices and boards.

Inspection data without breaking the manufacturer's seal for trusted suppliers

- Reduced transaction risk
- Increased data for differentiation and higher Quality Assurance

## DIMENSIONS & WEIGHT



XVZ = 65 x 58 x 54 cm



Weight = 90kg



ft

### CAMERA:

Take photo of packaging in parallel to X-ray imaging instead of separate work station

### CLOUD DEPLOYED DATA:

All images uploaded to a cloud hosted site for analysis

- Globally and instantly accessible by multiple employees, with full functionality on their phone
- Sharable with customers for enhanced products, services and differentiation



**AS6081** (Standard for supplying into Aerospace & Defence) requires a resolution down to 25 microns; our system has a 19.5-micron detector to achieve this.

## POWER USAGE & COMPONENT EXPOSURE

Per AS6171 for X-ray inspection, a component is destructively tested when exposed to > 2,500 Rods (below is non-destructive)



For a 30 X-ray this system exposes components to a miniscule 0.74 Rods.

The low-power is a unique selling point meaning you can operate the unit with open doors at a safe distance of 5 meters, saving overnight working or area shut-downs for large items.



### Single Phase

The system is single phase power meaning:

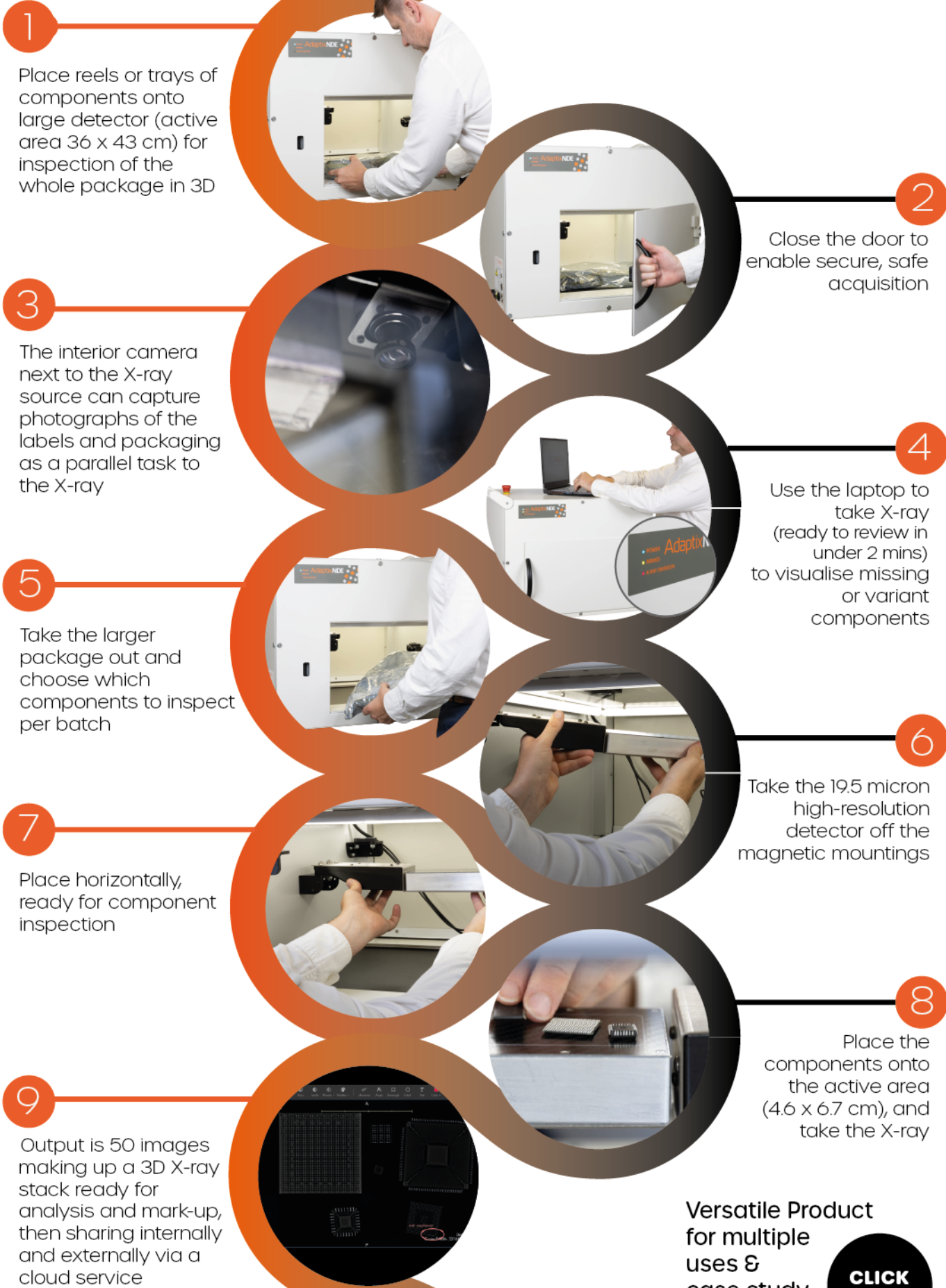
- No transformers or special installation requirements
- Plug it straight into mains sockets
- Low energy operating costs
- No aircooling and high costs compared to a micro-CT

Software is intuitive, simple and requires minimal training





# Workflow



Versatile Product  
for multiple  
uses &  
case study...

