

Investor day 2022

Welcome



Financial summary

- **Revenue growth of 21% to £492.4m**
 - Record level of demand as key market sectors continue to recover and semiconductor and electronics remain strong
 - Strong growth in all regions, continuing the trend seen in H1
- **Adjusted profit before tax increases by 47% to £124.0m**
 - Cost pressures continuing with certain operating costs increasing in Q3, including labour and utilities
 - Previous cost base reductions and productivity increases support improved operating margins
 - Return on sales increased to 25% (2021: 21%)
 - Q3 includes £2m of asset impairment for our Russia operation
- **End of period cash and bank deposits rise to £241.1m**
 - Cash generation of £19m in Q3, reflecting strong trading offset by increased capital spend and inventory growth to support demand

Key metrics

	2022 Q3 £m	2021 Q3 £m	Change %
Revenue	492.4	407.4	21%
Adjusted profit before tax	124.0	84.4	47%
Statutory profit before tax	120.2	106.3	13%
End of period cash and bank deposits	241.1	197.3	22%

Regional revenue

	2022 Q3 £m	2021 Q3 £m	Change %
Americas	105.6	86.9	22%
APAC	238.3	199.3	20%
EMEA	149.5	121.2	23%



Outlook

- Our markets are currently performing strongly, we expect demand from the semiconductor and electronics sectors to remain strong.
- We expect full year revenue to be in the range of **£655m** to **£675m**.
- Adjusted profit before tax is expected to be in the range of **£155m** to **£170m**.

Full year range

		2022 Q3 YTD £m	2022 Q4 £m	FY 2022 £m	YoY growth
Revenue	Lower	492	163	655	16%
	Upper		183	675	19%
Adjusted profit before tax	Lower	124	31	155	29%
	Upper		46	170	42%



Workshop: Financials including Q3 overview

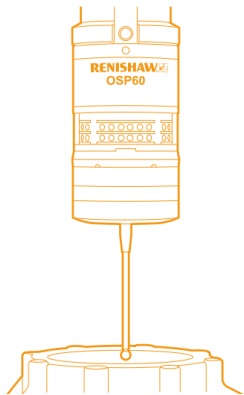
Transforming Tomorrow Together

We make it possible to create the products, materials and therapies that will define our world in the decades to come and touch billions of lives

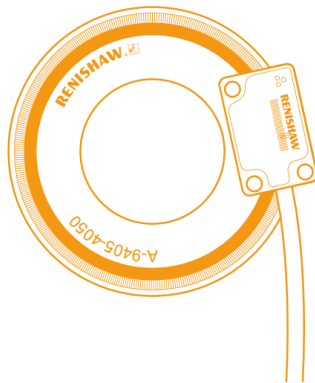
Manufacturing technologies

Analytical instruments and medical devices

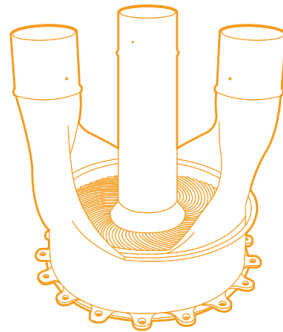
Industrial Metrology



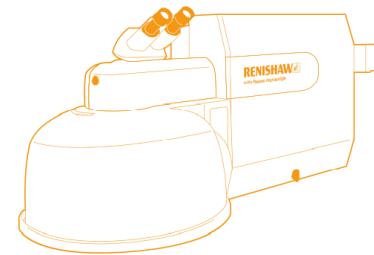
Position Measurement



Additive Manufacturing



Spectroscopy

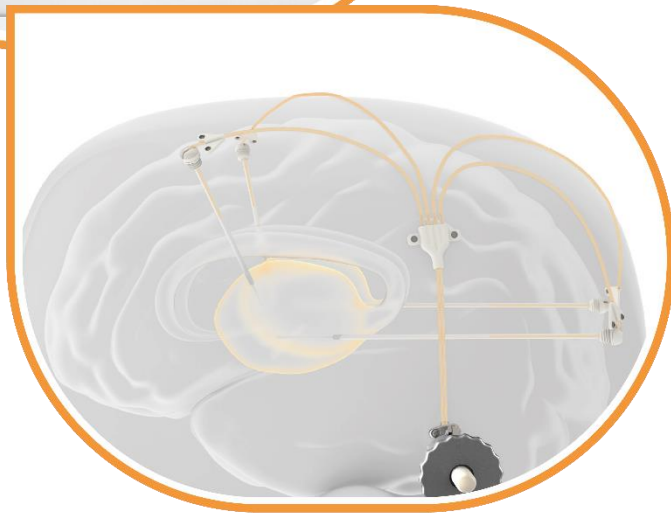


Neurological



Analytical instruments and Medical devices

Overview



Product/Commercial strategies

Spectroscopy

- Expanding into new markets beyond the laboratory with portable products for remote sample analysis, including production environments for process monitoring (e.g. Virsa™ fibre-fed spectrometer)
- Easy to use, compact bench top systems for dedicated application areas such as early disease detection and pharmaceutical quality control (e.g. RA816 and RA802 Analysers)

Neurological

- Developing a common platform for drug delivery and deep brain stimulation (DBS)
- Focused on strategic growth opportunities supporting pharma companies with trials for their candidate drugs, using our drug delivery system

Both businesses operate as independent units reflecting the technology and market differences compared to our Manufacturing technologies business

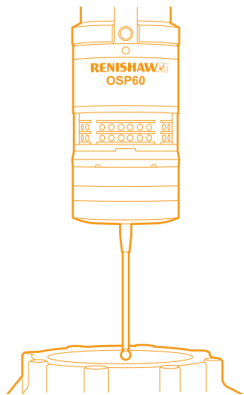
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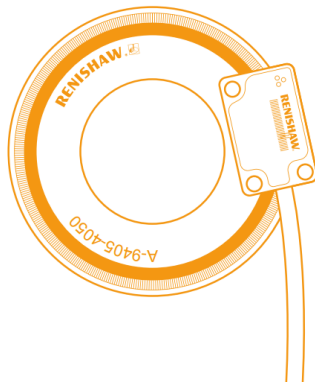
Manufacturing technologies

Analytical instruments and medical devices

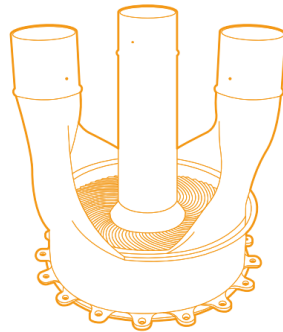
Industrial Metrology



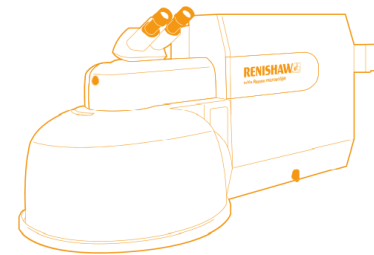
Position Measurement



Additive Manufacturing



Spectroscopy

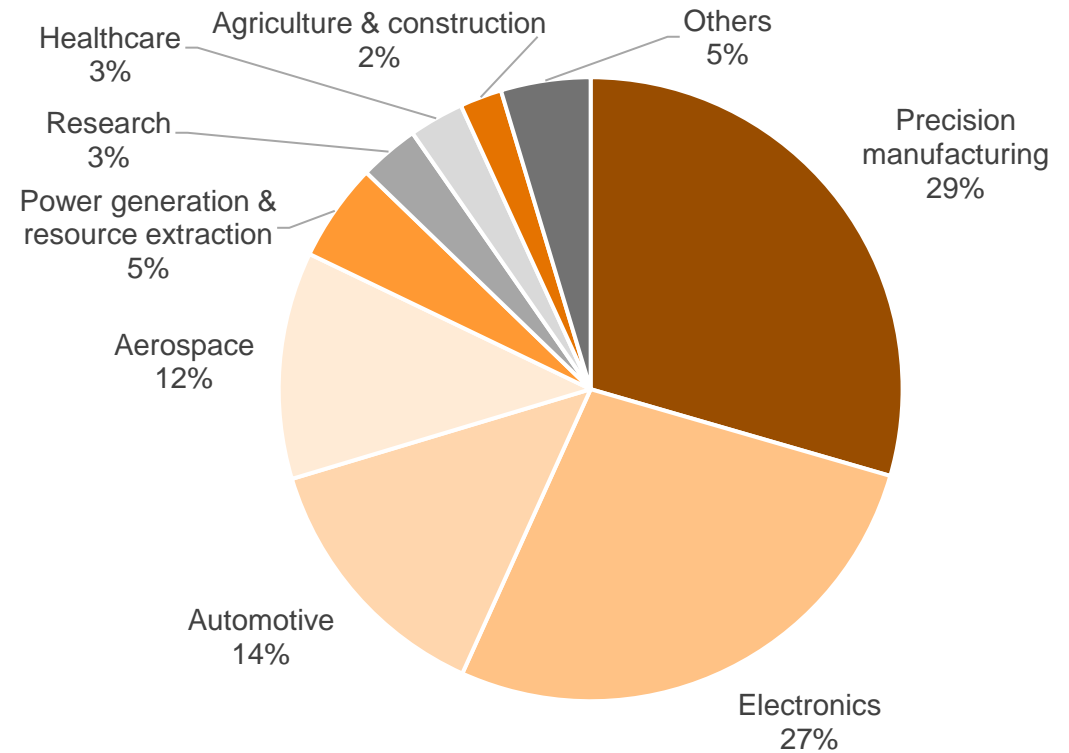


Neurological



Manufacturing Technologies

Transforming Tomorrow Together



End market overview¹



Workshop: Markets overview

Notes

1. End market overview is an unaudited management estimate with majority of sales being indirect (through machine builders, distributors etc).

Manufacturing Technologies

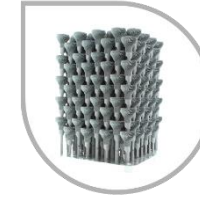
Transforming Tomorrow Together



What will tomorrow look like?



Sustainable
Renewable energy,
recycling and reuse,
'net zero' transport



High-performance
Complex and efficient
products, delivering
more with less



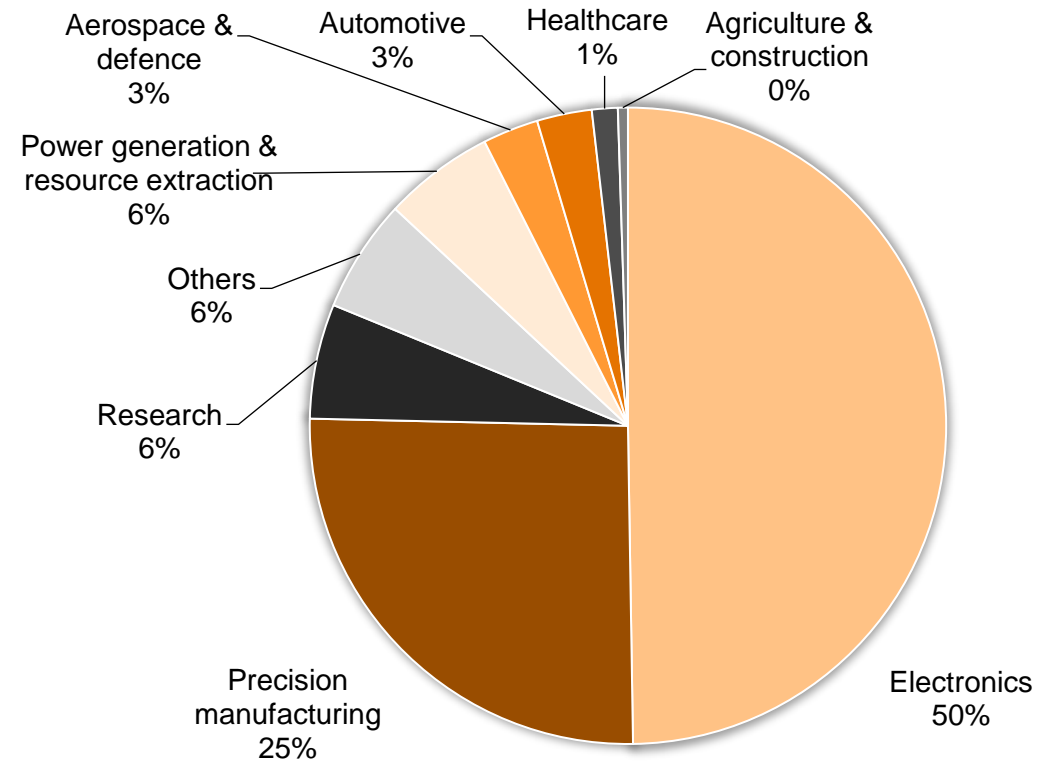
Intelligent
Electronics, sensors,
'big data' and artificial
intelligence

Global industrial trends:

- Global skills shortages and rising labour costs – increased investments in automation, robotics and ease-of-use technology
- Net Zero commitments – demand for products that maximise efficiencies, enable lightweight parts and minimise waste
- Industry 4.0/smart factories – demand for more digitalisation and data to inform manufacturing processes
- Near-shoring and re-shoring – competitive manufacturing in high-cost labour markets requires automation and robotics

Manufacturing Technologies – Position Measurement

Overview



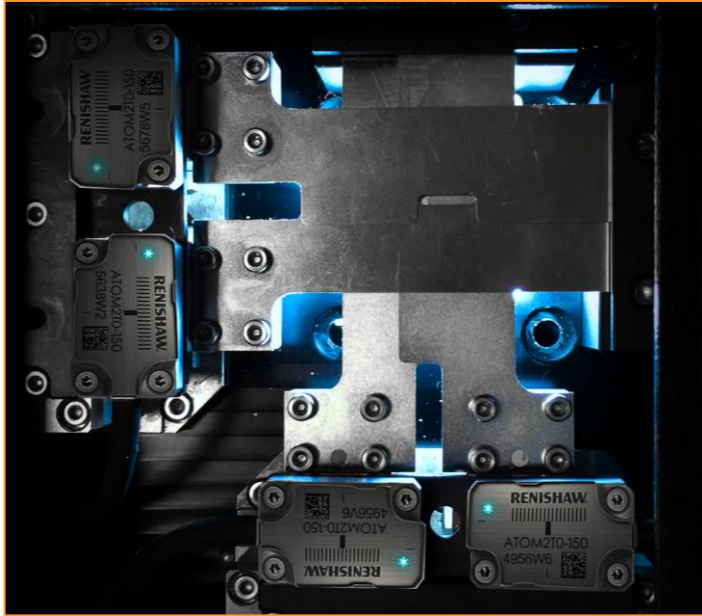
End market overview¹

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Manufacturing Technologies – Position Measurement

Semiconductor and electronics manufacturing

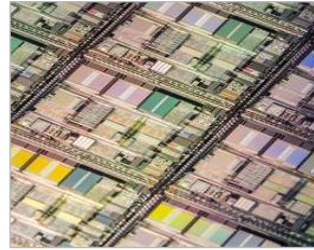


Laser repair of flat panel display assemblies

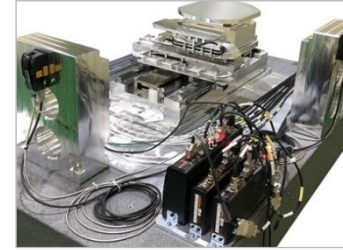


High growth market

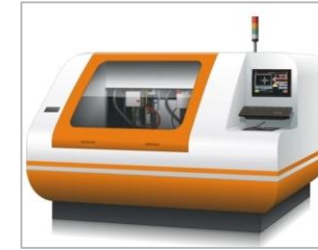
- Consumer electronics demand
- Enhanced automation
- Reshoring of manufacturing
- Moore's law



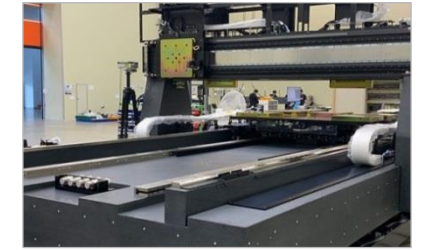
Photolithography



Wafer inspection



PCB router



Flat panel inspection

Application segment

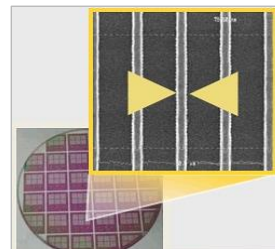
Front-end semiconductor

Back-end semiconductor

PCB manufacture & test

Flat panel displays

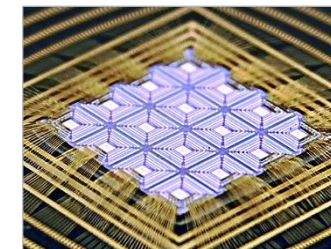
CD and DR SEM



Wafer handling



Wire bonding



PCB testing



Semiconductor



Electronics

Manufacturing Technologies – Position Measurement

How we win



Product Innovation

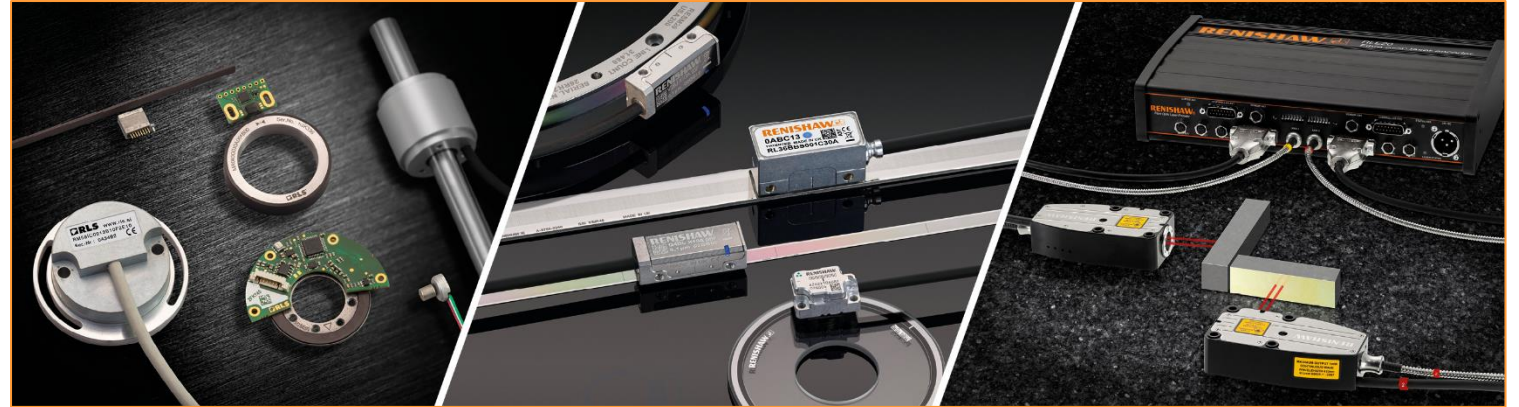


Manufacturing capability



Global customer support

A strong family of encoders



Development is through targeted research into new technology and adjacent markets



Key account capture

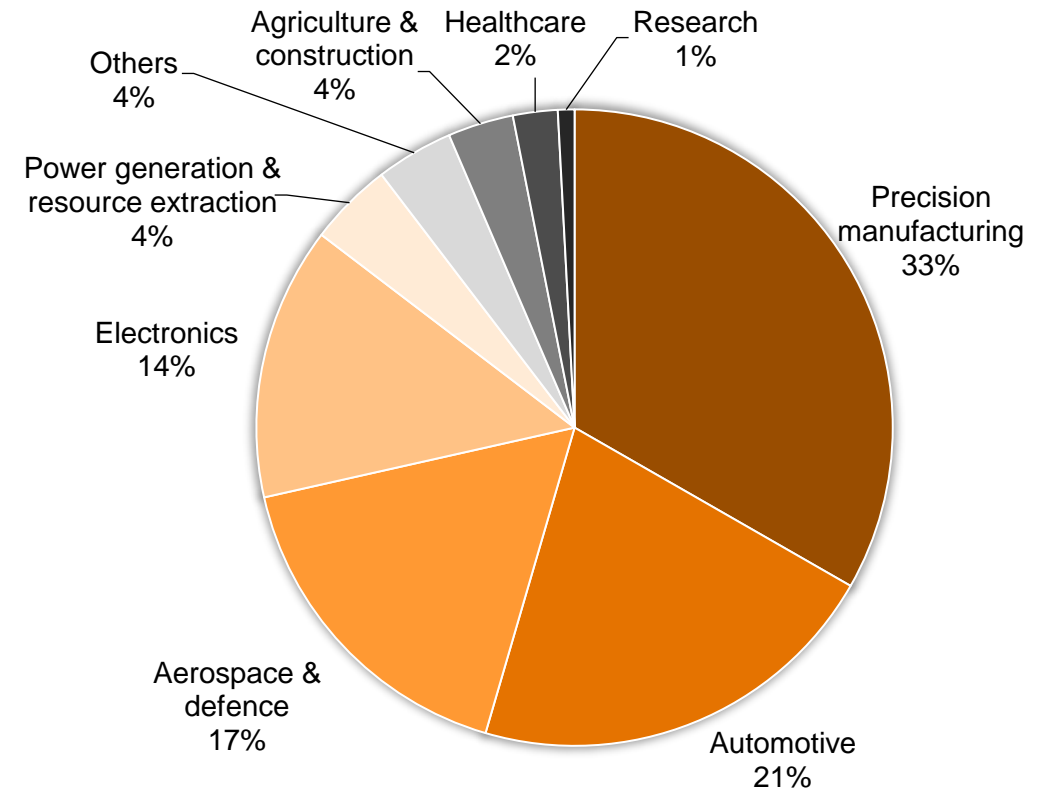
- Targeted relationship building over many years through strong local technical and commercial capabilities
- Well positioned to respond when opportunities arise
- Winning new business through superior technical products and ease-of-use, and the capability to deliver reliably



Workshop: Position Measurement commercial update

Manufacturing Technologies – Industrial Metrology

Overview



End market overview¹

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Manufacturing Technologies – Industrial Metrology

Overview



Tight specifications and cost pressures facing manufacturers



Focus on shop floor, point of manufacture metrology

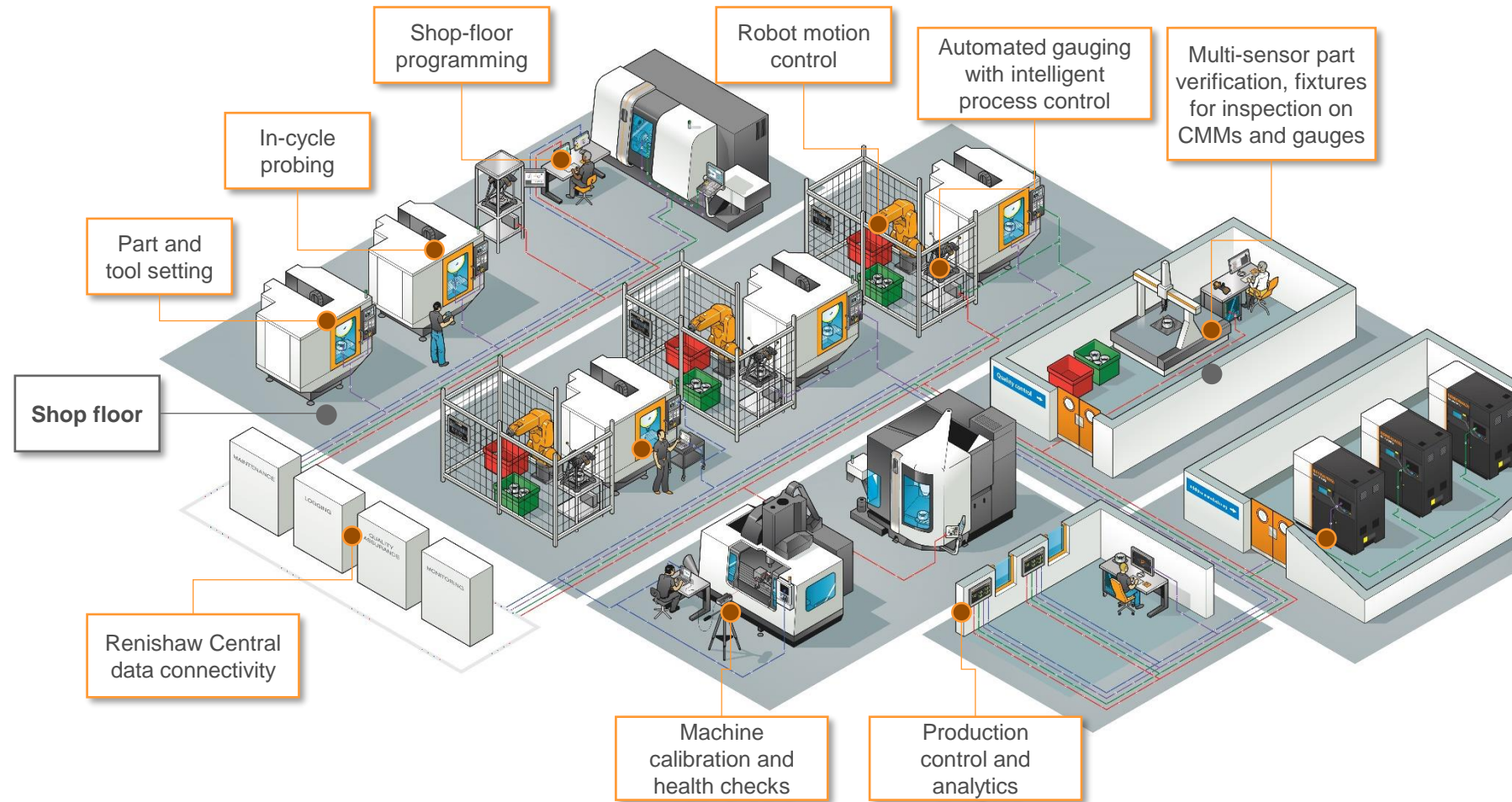


Process control capabilities allow productive, high precision automated manufacturing



High growth market

- Enhanced automation
- Autonomous factories



Manufacturing Technologies – Industrial Metrology

Global customer support



Global customer support includes all routes to market



Machine tool builders – global technical support



End user – machine tool retrofit capability increasing with new partners

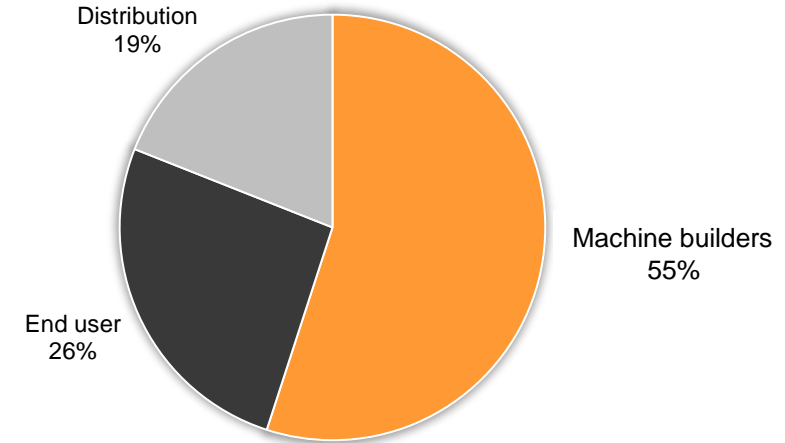


End user – targeted key account strategies for Equator™ shop floor gauge and REVO® system solution sales



Collaboration with 3rd party software opening up new routes to market for Equator

Sales by channel (FY22)



Route to market



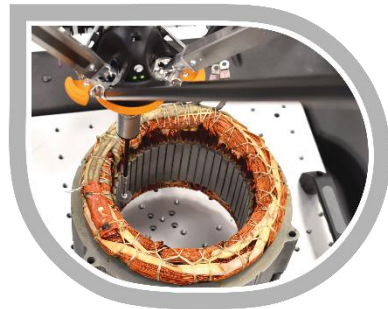
Manufacturing Technologies – Industrial Metrology

Product innovation



Precision

Accurate, intricate production processes, delivering higher product performance and sustainability



Productivity

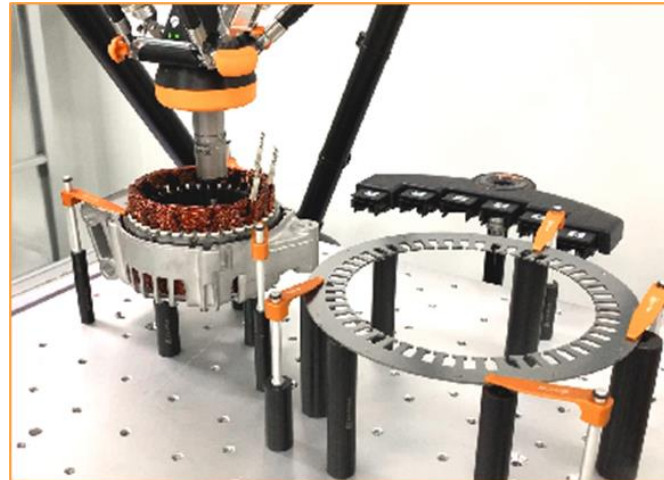
Higher process yields, faster cycle times and more automation



Practicality

Easy-to-use solutions with embedded knowledge and data analytics

Continued investment in product innovation



Workshops: CMM/gauging and machine tool product line updates

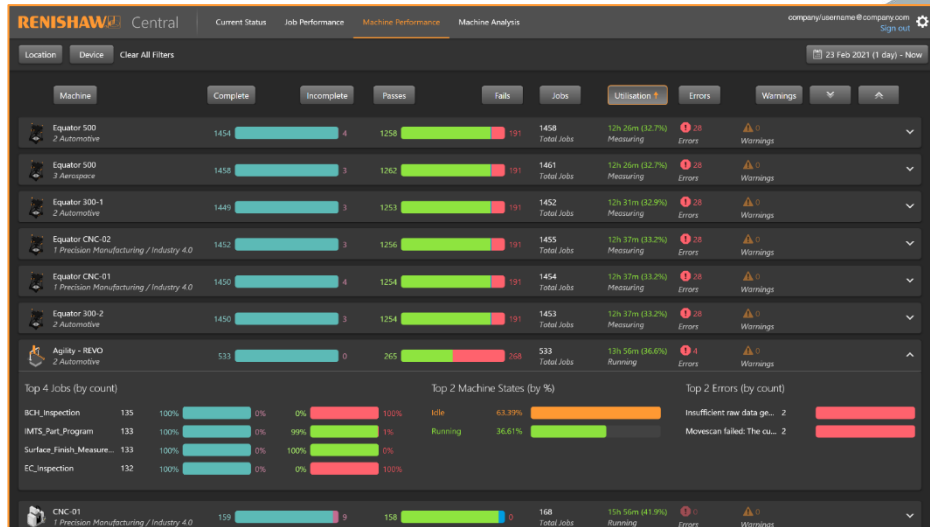
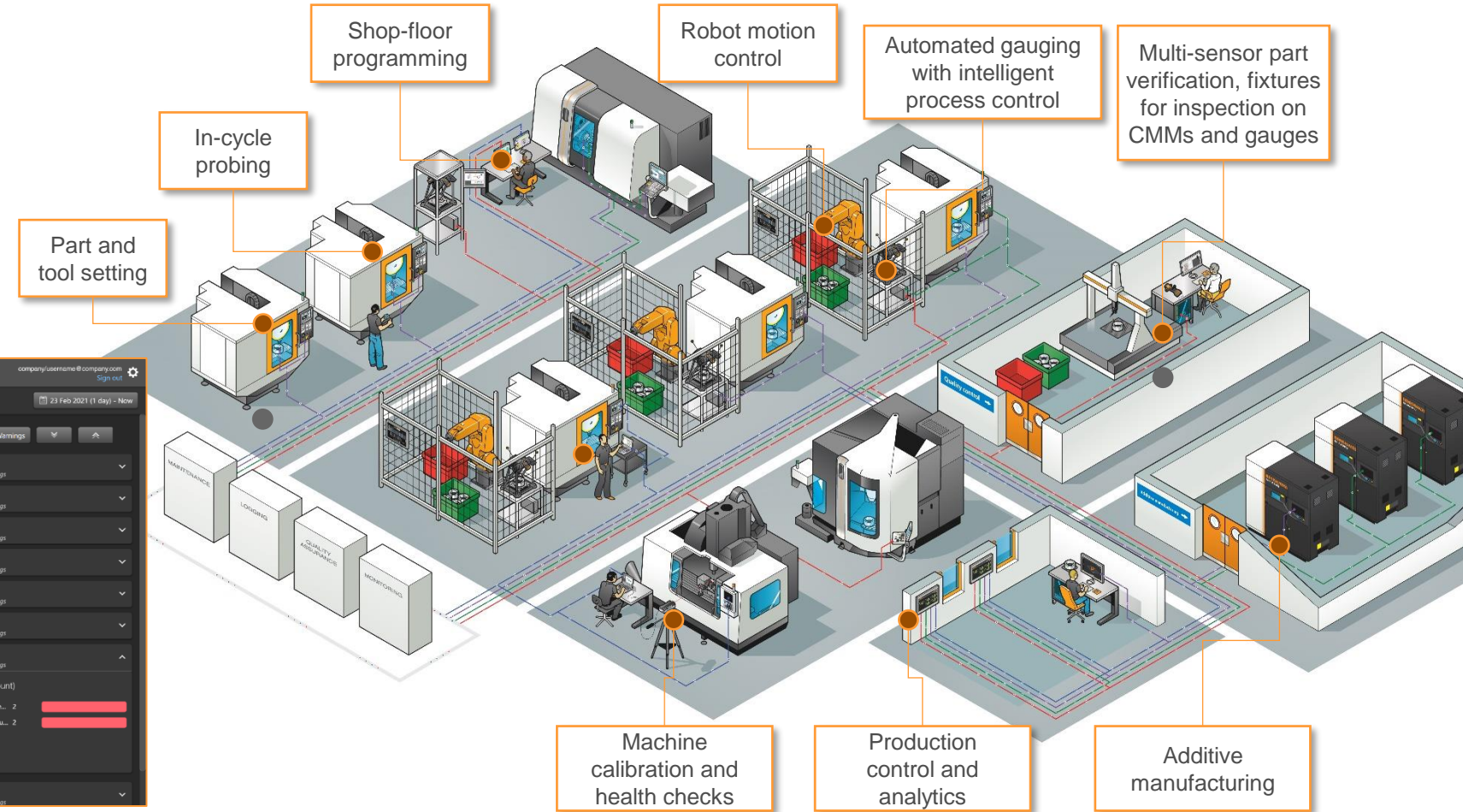
Manufacturing Technologies – Industrial Metrology

Process control and metrology data

New manufacturing connectivity platform – Renishaw CENTRAL



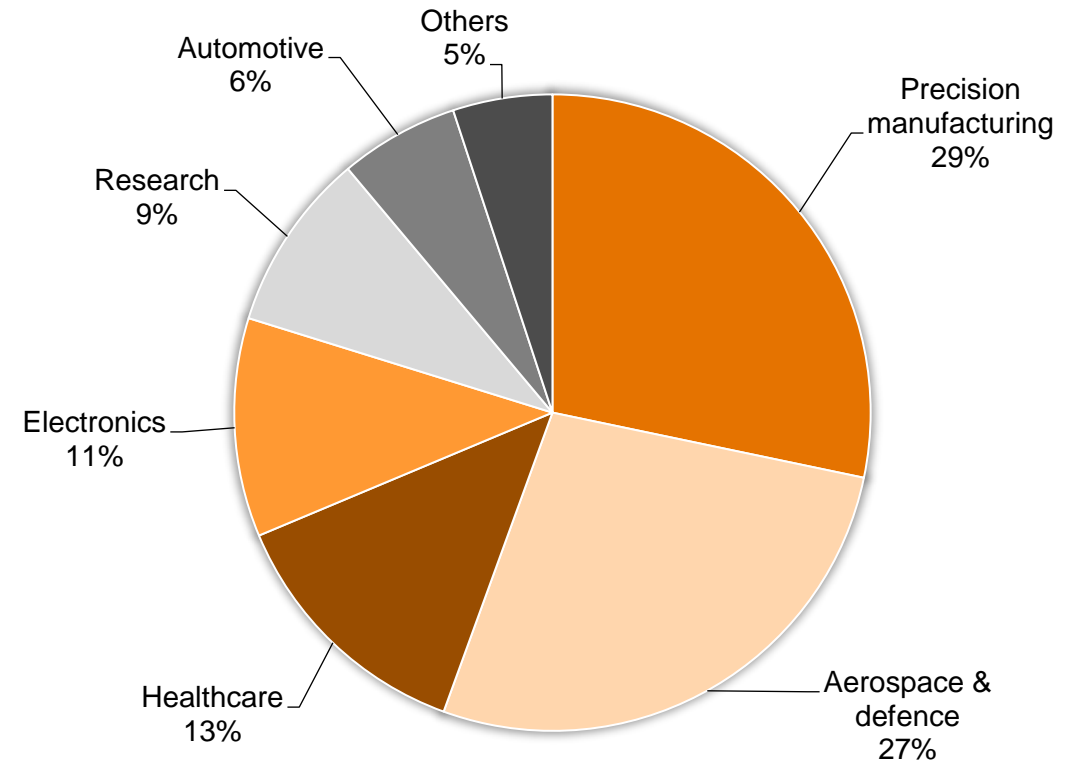
Consolidates manufacturing process and metrology data from all devices and uses data to update CNC controls



Workshop: Industrial Metrology software strategy

Manufacturing Technologies – Additive manufacturing

Overview



End market overview¹

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Manufacturing Technologies – Additive Manufacturing

AM parts

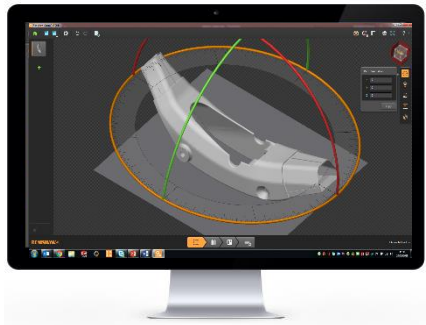
- Attractive opportunities for AM in multiple sectors including healthcare
- AM is highly suited to patient-specific dental prosthodontics and implants, and orthopaedic implants
- Our multi-laser systems give our customers productivity and part quality for the volume manufacture of precision components



Additively manufactured orthopaedic parts including acetabular cups and tibial trays - image courtesy of Croom Precision Medical

Manufacturing Technologies – Additive Manufacturing

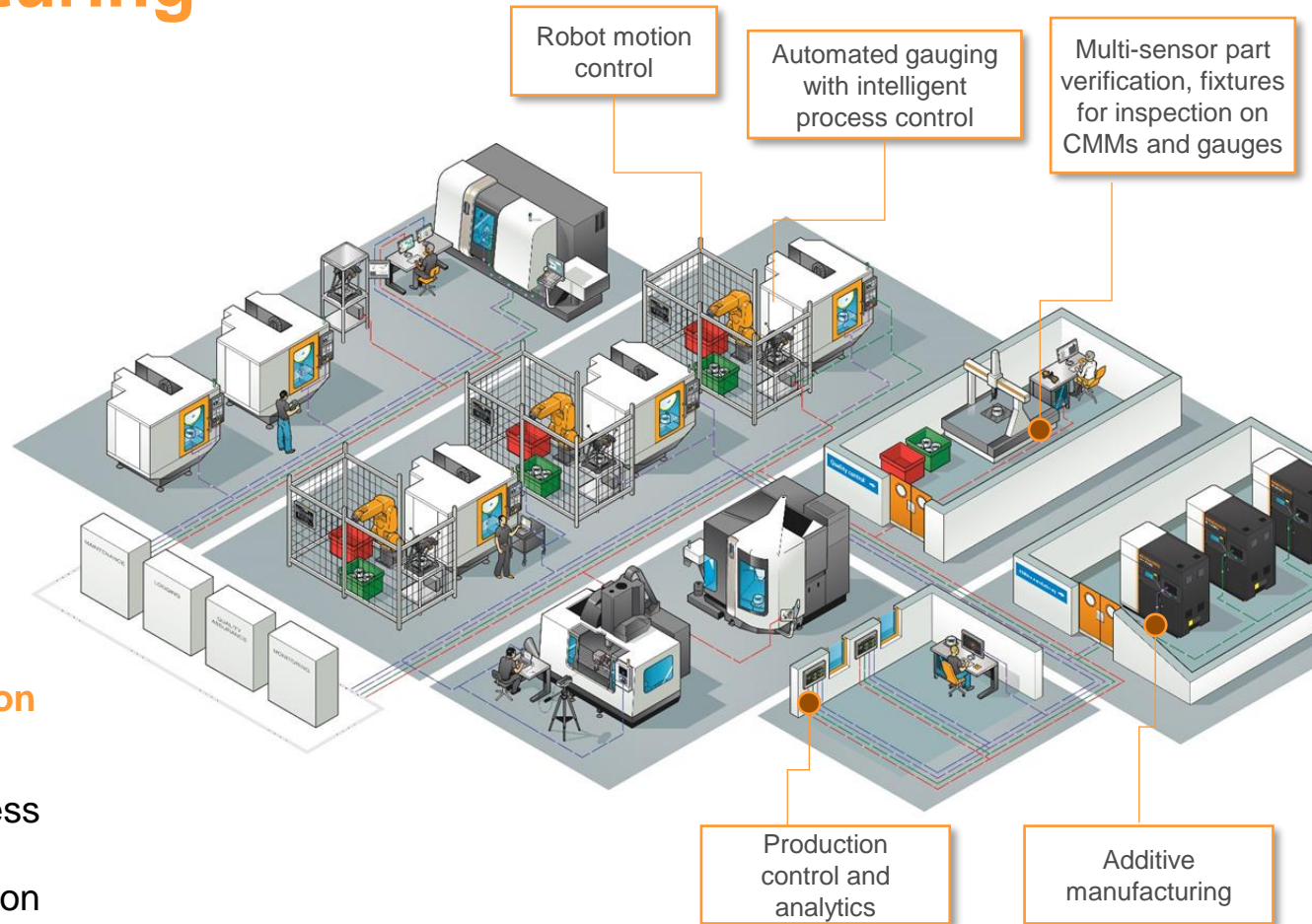
AM manufacturing



Software for build preparation and monitoring

Optimisation of the build process

Supporting third party integration



500Q AM platform

Productive and precise

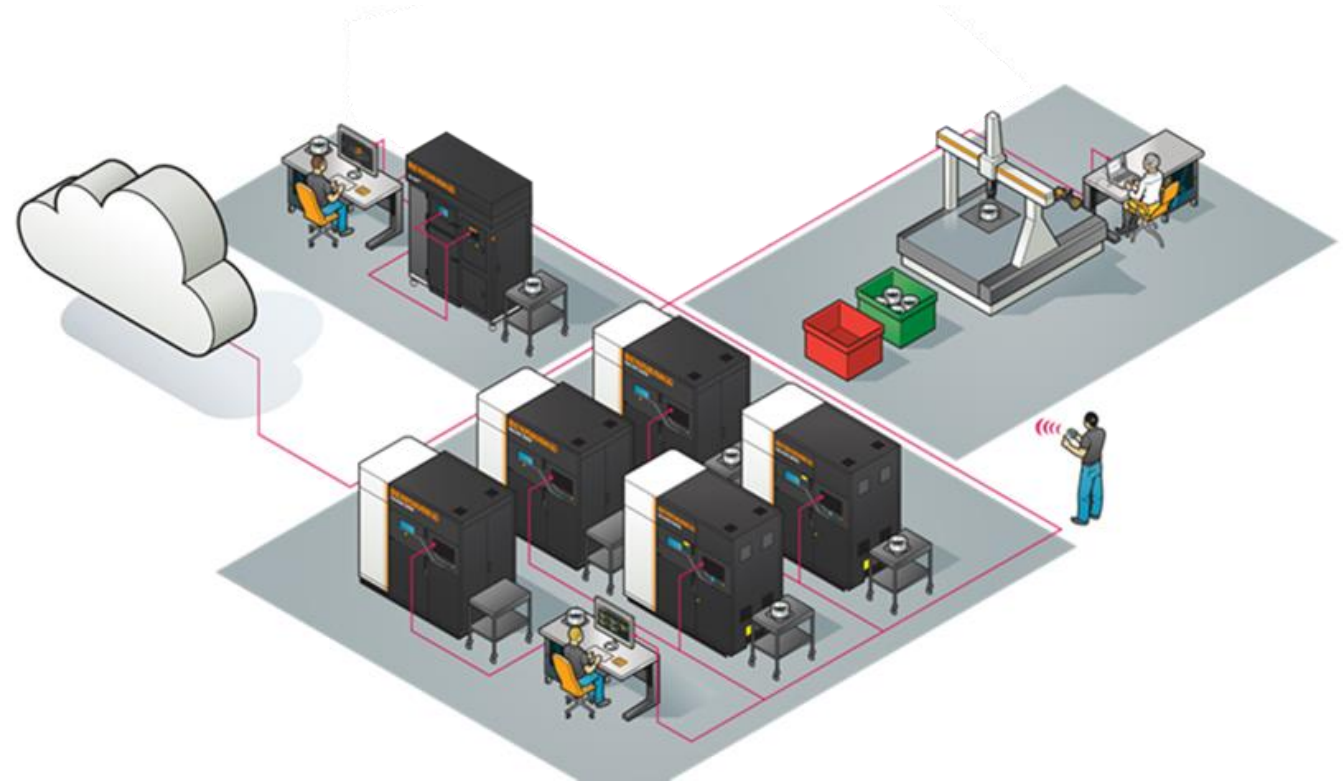
Manufacturing Technologies – Additive Manufacturing

Investing for the future



Design for AM optimised parts

Educating on the design philosophy



Product innovation

Productivity, Precision, Practicality



Workshop: AM strategy

Manufacturing Technologies

Close adjacent markets



Attractive opportunities for diversification in machine tool market



R&D programmes targeted at areas in or close to existing Manufacturing technology markets where we can bring innovation



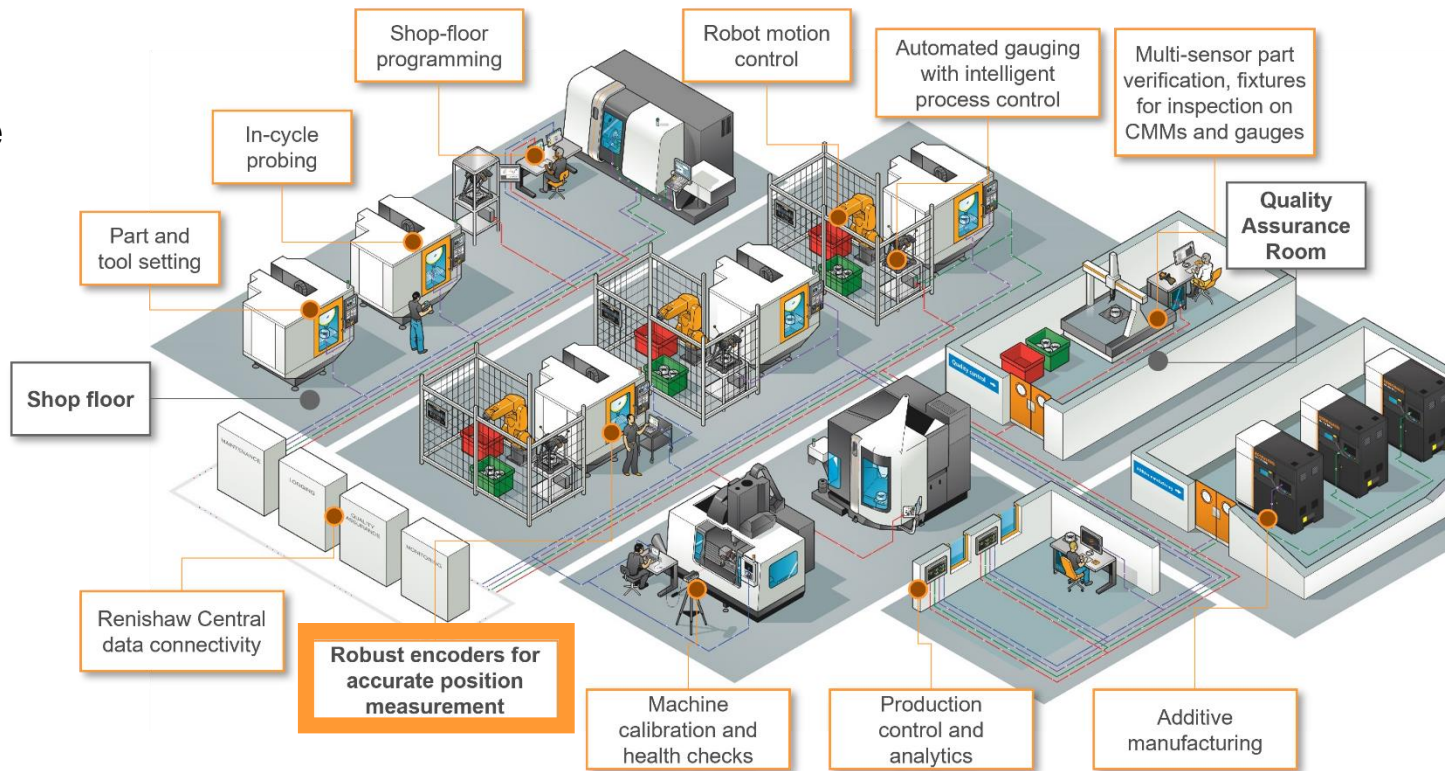
Encoders for machine tools



SpinCo™ magnetic rotary encoder



FORTiS™ enclosed encoder



Workshop: FORTiS encoder and encoder manufacture

Our recipe for success

Manufacturing – delivering high-quality products on demand

Responding to demand



Productivity



Investment



- We manufacture most products in-house – control of quality, delivery, costs and ability to respond rapidly to changing demand
- Strategic inventory to enable responsive delivery to changing customer demand
- Global factory network with robust supply chains which proved invaluable during the pandemic
- World-class facilities that showcase our own technologies in action – we talk our customers' language

Sustainability

Transforming Tomorrow Together

Doing business
responsibly 



Empowering our customers to innovate sustainably

Across all sectors our products help to:

- Reduce energy consumption
 - Less energy required to produce the same level of machined components
- Minimise waste
 - Reduce unproductive machine time
 - Eliminate scrap components
- Manufacture high performance products
 - Tighter tolerances
 - Greater efficiency in operation
 - Lighter in weight
 - Greater reliability requiring less service

Through our environmental commitments, we will also help our customers to reduce their emissions