#### Welcome and strategy overview

William Lee, Chief Executive Renishaw plc

## Agenda

Board

- **10.15** Welcome and strategy overview
- 10.50 Industrial metrology
- 11.20 Product demonstrations 1
- 12.10 Lunch
- **12.50** Global perspective EMEA

William Lee (Chief Executive)

**Dave Wallace (Director of Industrial Metrology)** 

Jean-Marc Meffre (President – EMEA)

**Rainer Lotz (Vice-President – EMEA)** 

- **13.20 Product demonstrations 2**
- 15.00 Q&A session
- 15.45 Close
- **16.00** Coach departs for Bristol Parkway

**RENISHAW** apply innovation<sup>™</sup>

#### Trading update – 9 months to 31<sup>st</sup> March 2019

- Cumulative revenue up 0.3% to £431.1m
- Adjusted profit before tax for the first nine months was down 18.4% at £79.6m
- Forecast range for full year revenue and profit decreased:
  - Revenue: £580m to £600m
  - Adjusted profit: £105m to £120m
  - Statutory profit: £111m to £126m

#### Renishaw plc Trading update 14 May 2019

Renishaw plc, the global high-precision metrology and healthcare technology group, publishes this trading update for the nine months ended 31 March 2019. It contains unaudited information that covers the first three quarters of the financial year and the period since. As previously announced, the Company is hosting its annual investor day today.

#### Trading activity

Continuing operations	9 months to 31	9 months to 31	Change
	March 2019	March 2018	-
Metrology	£404.5m	£406.6m	-0.5%
Healthcare	£26.6m	£23.3m	14.2%
Total Revenue	£431.1m	£429.9m	0.3%
Adjusted* Profit before tax	£79.6m	£97.6m	-18.4%
Statutory Profit before tax	£84.8m	£104.4m	-18.8%

Revenue from continuing operations for the first three quarters of the current financial year was  $\pounds$ 431.1m, an increase of 0.3% compared with  $\pounds$ 429.9m for the corresponding period last year.

Metrology revenue for the nine months to 31 March 2019 amounted to £404.5m compared with £406.6m for the same period last year. Revenue in our healthcare business has grown to £26.6m compared to £23.3m for the same period last year, an increase of 14.2%.

Adjusted profit before tax from continuing operations for the first three quarters amounted to £79.6m compared with an adjusted profit before tax of £97.6m for the corresponding period last year. Statutory profit before tax mounted to £84.6m (2018: £104.4m).

#### Financial position

The Group balance sheet remains strong with net cash balances of £120.5m as at 31 March 2019 (30 June 2018: £103.8m).

#### Outlook

Based on recent order trends and customer feedback, we now expect full year revenue to be in the range of £580m to £600m. Adjusted profit before tax is now expected to be in the range of £105m to £120m and statutory profit before tax in the range of £111m to £126m. We continue to focus on increasing productivity and on-going investment in the business for the long term.

Notwithstanding the current economic uncertainties, the Board remains confident in the <u>future prospects</u> of the Group.

Will Lee

Chief Executive

The preliminary full year results for the year ending 30 June 2019 will be released on 1 August 2019.

Sir David McMurtry CBE, RDI, FRS, <u>EREng</u>, CEng, <u>ElMechE</u> Executive Chairman

14 May 2019 Renishaw plc New Mills, Wotton-under-Edge, Gloucestershire,

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## Our expertise





## Overview

#### **Our fundamental strategy is based on:**

- patented and innovative products and processes
- high quality manufacturing
- providing local customer support in all our markets around the globe







## Our key markets





### Consumer electronics market

#### Key market drivers

- Weaker smartphone demand and increased machining capacity in Asia
- Shorter product life cycles require flexible measurement systems
- Increasing use of automation in manufacturing and material handling due to rising labour costs in Asia
- 5G mobile products require significant investments in more complex integrated circuits





#### Consumer electronics market

#### **Position encoder products**

- Market drivers size, speed, accuracy, ease-of-use
- Our encoders are required for machinery throughout the semiconductor, electronics and flat panel display (FPD) production process
- New multi-axis periscope meets the need for higher machine performance which requires multiple interferometer feedback axes





#### Consumer electronics market

## QUANTiC<sup>™</sup> series of digital incremental encoders

Made for manufacturing

Patented and innovative products and processes

QUANTiC<sup>™</sup> - meeting market demands for size and ease-of-use



#### Key market drivers

- 42,700 new aircraft by 2038 to meet growing global demand for civil air transport
- Lower emissions through fuel-efficient engines and reductions in engines and airframe weight
- Metrology and additive manufacturing opportunities
- Process stability and certification





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- Lower emissions through fuel-efficient engines and reductions in engines and airframe weight
- Growing global market for engine maintenance, repair and overhaul (MRO) (due to increased demands on engine performance)
- Metrology and additive manufacturing opportunities
- Process stability and certification







# Driving additive manufacturing (AM) innovation

- Obvious benefits for many aerospace applications
- Reducing the cost per part opens
   up more opportunities









## Productive laser powder bed fusion



## AM – the drive for built in quality

- Process anomalies can produce defects that affect fatigue performance
- Heavy reliance on post-build testing and costly production process control
- New technologies give the opportunity to detect and identify defects through process design, and possibly to repair defects during the build





## AM process chain





#### Investment in people and infrastructure

#### Providing local customer support in all our markets around the globe



Barcelona, Spain

Additive Manufacturing Solutions Centre, Barcelona, Spain



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#### Investment in people and infrastructure

High quality manufacturing



**Renishaw Miskin, South Wales** 



## Automotive market

#### Key market drivers

- Trend towards hybrid and electric vehicles (EV), and a focus on autonomous vehicles
- Mixed global environment for adoption of the newer technologies
- Reduced capital investment for internal combustion engines (ICE) but still a drive to make engines as efficient as possible
- Vehicle design life cycles are reducing, driving more flexible manufacturing
- AM interest focused on high-end applications



apply innovation"

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#### Automotive market

#### Providing local customer support in all our markets around the globe



Auburn Hills, Michigan, USA

Monterrey, Mexico

Mountain View, California, USA



#### Ease of use develops routes to market

#### Patented and innovative products and processes





## Healthcare market

#### **Key market conditions**

- Average global life expectancy rising; increasing neurological disorders require faster and highly precise surgical therapies
- Demand for more economical treatments, more patient-specific treatments and safer procedures with reduced human error
- Obesity rising globally leading to growing demand for orthopaedic implants



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### Healthcare market

#### Neuro

 Results of UK GDNF Parkinson's trial showed the Renishaw manufactured drug delivery system performed effectively and reliably

(BBC2 'The Parkinson's Drug Trial: A Miracle Cure?')





## Healthcare market

#### **Spectroscopy**

- Raman systems increasingly used in industrial process control applications
- Diverse research applications including microplastic pollution, counterfeit food and battery technology
- New Biological Analyser exclusively for biological and clinical research







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