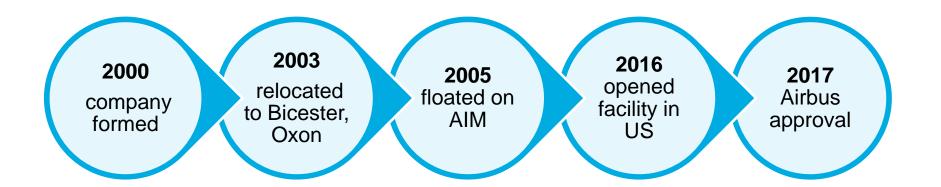


Growth & Innovation Forum 2019 29 January 2019

Philip Kirkham, CEO

History of Hardide

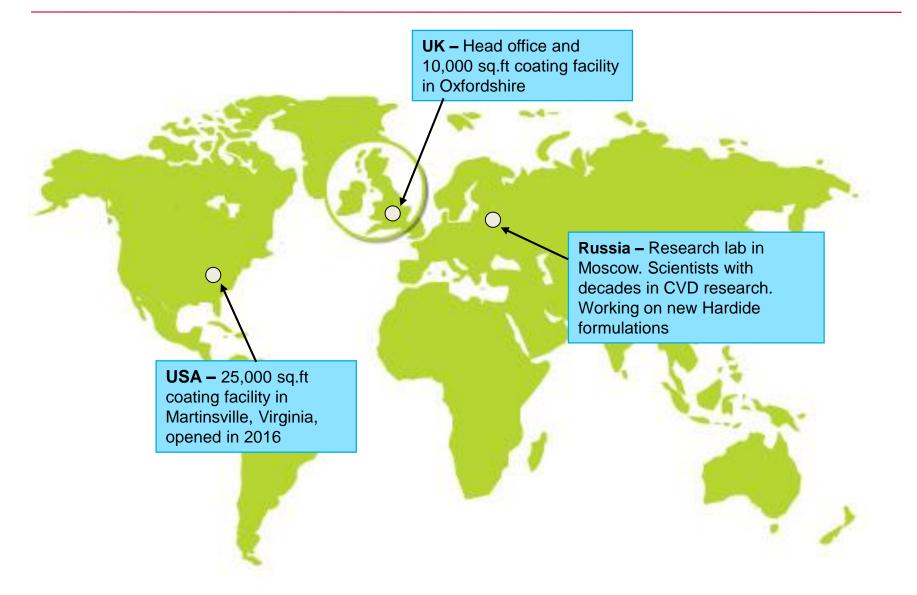




- Leading global innovator and developer of advanced Tungsten Carbide based metal coatings
- Strong IP portfolio: 5 patents registered since incorporation with a new and important patent pending for turbine blades

Hardide group facilities





Key facts



FY18 revenue £4.6m

Leonardo Helicopters full approval in progress

High margins:

- Variable margin: >70%
- Gross margin: > 50%
- Very high operational gearing

Approved supplier to BAE and Airbus

3-year sales growth: 47% CAGR

Current major markets Oil & Gas and Flow Control: downhole components, pumps and valves

Good prospects of EBITDA break-even in near term



Head office and main facility in Bicester, Oxfordshire

Group headcount c. 45

US coatings facility in Martinsville, Virginia opened 2016

Developing markets: aerospace, power generation, precision engineering

Strong balance sheet





Key markets



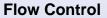






Oil & Gas

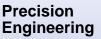
Used by leading oil & gas service providers – downhole, well stimulation and subsea applications



Severe service pumps & valves for demanding environments







Power generation, plastics extrusion, baggage X-ray machines, silicon wafer production

Aerospace



Technology



Nano-structured tungsten carbide, metallurgical coatings that significantly extend the life of critical parts and tools. A CVD (Chemical Vapour Deposition) process creates an extremely hard, tough and thin layer with a number of advantages over competitor processes.

Superior wear & erosion resistance

Outperforms hard chrome by factor of 12 and cemented tungsten carbide by factor of 3

Chemical Resistance

Virtually pore-free structure provides very high protection against a range of corrosive and aggressive chemicals



Internal Surfaces and Complex Shapes

Gas-phase deposition process allows uniform coating to form on internal surfaces and complex designs. This is not possible for HVOF, Plasma Spray, D-Gun or PVD Coating technologies

Toughness and Flexibility

Follows contours of substrate and has high flexibility – substantially reducing the risk of cracking under deformation

Tailored Hardness

Gas phase of process allows precise control over hardness. Micro hardness of up to 4000HV can be achieved

Ease of Finishing

Only polishing required in contrast to expensive grinding with other technologies - especially with complex shapes

Coating Thinness

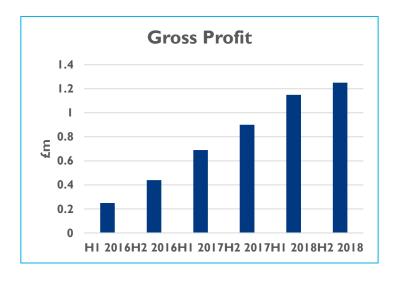
CVD process requires no binder, creating a less bulky structure than alternative technologies

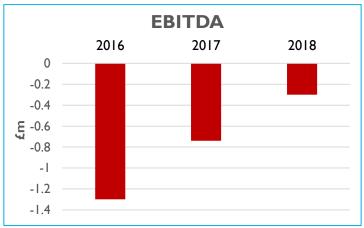
Financial trends











Year on Year comparison



Sales grew strongly over the past three years (47% per year) but gross profit grew nearly twice as fast (87% per year) and fixed costs (production overheads + admin costs) grew at only 16% per year.

£m	2015/16	2016/17	2017/18	CAGR
Sales	2.14	3.24	4.61	47%
Variable Gross Margin %	67%	75%	73%	
Fixed costs of sales	0.75	0.85	0.97	14%
Gross Profit	0.69	1.58	2.41	87%
Gross Profit %	32%	49%	52%	
Overheads	1.99	2.33	2.71	17%
EBITDA	(1.31)	(0.74)	(0.30)	
'Fixed' costs	(2.74)	(3.18)	(3.68)	16%

Business development



Airbus

Positive progress. Multiple components at final stage before production

Leonardo Helicopters

Positive progress. Final stages before part approval on transmission system

Other Aerospace

•New interest from US aerospace companies trials with Triumph Aerospace and others

Oil & Gas

Two new major supply contracts in place
 Three new major quatom

Three new major customer applications

Flow Control

• Additional high volume components from the major pump customer

Precision Engineering

Continuing demand for xray baggage screening machine parts

Power generation turbine blade opportunities

North America

•Additional business development manager appointed

Investment proposition



- ❖A unique coating technology that fills a major gap in the range of competitors' coatings:-
- coats uniformly where others cannot:
 - >complex shapes
 - ➤ internal as well as external surfaces
- Coating facilities in UK and USA

- Strong revenue growth
- Large market size
- Solid position in oil & gas sector
- Verge of breaking into aerospace markets with Airbus, Leonardo Helicopters and others
- Power generation turbine blade market opportunities are huge

We continue to re-invest in the business and production facilities as our strategy is to make the company an attractive acquisition target



Thankyou for listening! Meet us at Stand 12

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