



CAUTIONARY NOTE

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS BEING PROVIDED SOLELY FOR INFORMATION PURPOSES BY AMG ADVANCED METALLURGICAL GROUP N.V. (THE "COMPANY") AND MAY NOT BE REPRODUCED IN ANY FORM OR FURTHER DISTRIBUTED TO ANY OTHER PERSON OR PUBLISHED, IN WHOLE OR IN PART, FOR ANY PURPOSE, EXCEPT WITH THE PRIOR WRITTEN CONSENT OF THE COMPANY. FAILURE TO COMPLY WITH THIS RESTRICTION MAY CONSTITUTE A VIOLATION OF APPLICABLE SECURITIES LAWS.

This presentation does not constitute or form part of, and should not be construed as, an offer to sell or issue or the solicitation of an offer to buy or acquire securities of the Company or any of its subsidiaries nor should it or any part of it, nor the fact of its distribution, form the basis of, or be relied on in connection with, any contract or commitment whatsoever.

This presentation has been prepared by, and is the sole responsibility of, the Company. This document, any presentation made in conjunction herewith and any accompanying materials are for information only and are not a prospectus, offering circular or admission document. This presentation does not form a part of, and should not be construed as, an offer, invitation or solicitation to subscribe for or purchase, or dispose of any of the securities of the companies mentioned in this presentation. These materials do not constitute an offer of securities for sale in the United States or an invitation or an offer to the public or form of application to subscribe for securities. Neither this presentation nor anything contained herein shall form the basis of, or be relied on in connection with, any offer or commitment whatsoever. The information contained in this presentation has not been independently verified. No representation or warranty, express or implied, is made as to, and no reliance should be placed on, the fairness, accuracy or completeness of the information or the opinions contained herein. The Company and its advisors are under no obligation to update or keep current the information contained in this presentation. To the extent allowed by law, none of the Company or its affiliates, advisors or representatives accept any liability whatsoever (in negligence or otherwise) for any loss howsoever arising from any use of this presentation or its contents or otherwise arising in connection with the presentation.

Certain statements in this presentation constitute forward-looking statements, including statements regarding the Company's financial position, business strategy, plans and objectives of management for future operations. These statements, which contain the words "believe," "expect," "anticipate," "intends," "estimate," "forecast," "project," "will," "may," "should" and similar expressions, reflect the beliefs and expectations of the management board of directors of the Company and are subject to risks and uncertainties that may cause actual results to differ materially. These risks and uncertainties include, among other factors, the achievement of the anticipated levels of profitability, growth, cost and synergy of the Company's recent acquisitions, the timely development and acceptance of new products, the impact of competitive pricing, the ability to obtain necessary regulatory approvals, and the impact of general business and global economic conditions. These and other factors could adversely affect the outcome and financial effects of the plans and events described herein.

Neither the Company, nor any of its respective agents, employees or advisors intend or have any duty or obligation to supplement, amend, update or revise any of the forward-looking statements contained in this presentation.

The information and opinions contained in this document are provided as at the date of this presentation and are subject to change without notice.

This document has not been approved by any competent regulatory or supervisory authority.

AMG BUSINESS SEGMENTS



AMG CRITICAL MATERIALS

AMG's conversion, mining, and recycling businesses

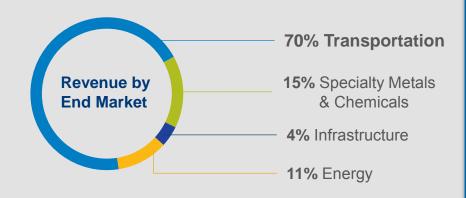
- Vanadium
- Superalloys (Chrome)
- Aluminum (Master Alloys)
- Mineração (Tantalum & Lithium)
- Antimony
- Graphite
- Silicon Metal



AMG TECHNOLOGIES

AMG's titanium alloys, vacuum systems and services business

- Vacuum Furnace Equipment
- Titanium Products
- Coating Materials
- · Heat Treatment Services



AMG TECHNOLOGIES REVENUE SPLIT

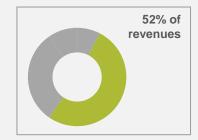
AMG Technologies

Titanium Products

30% of revenues

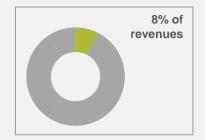
Vacuum Furnace Equipment





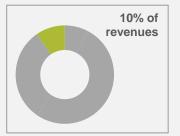
Heat Treatment Services





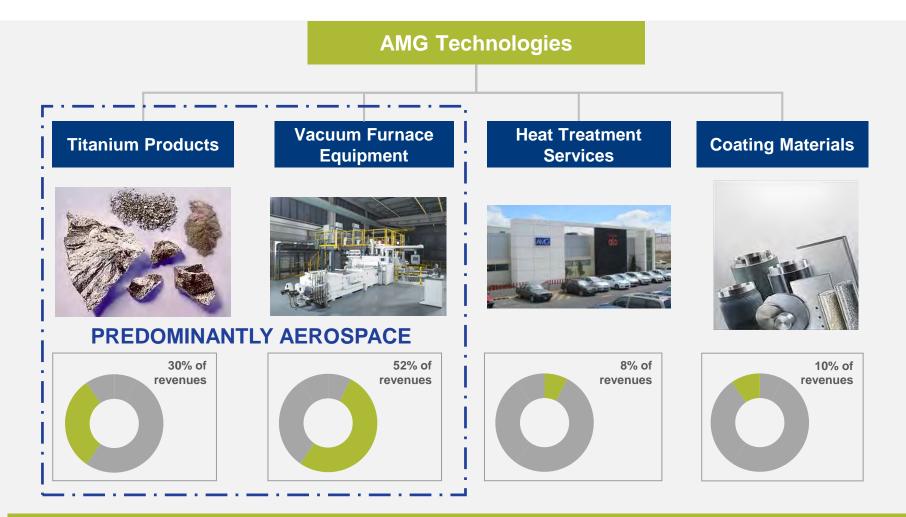
Coating Materials





AMG Technologies is leading supplier of equipment, materials and services to the transportation sector (primarily aerospace)

AMG TECHNOLOGIES REVENUE SPLIT

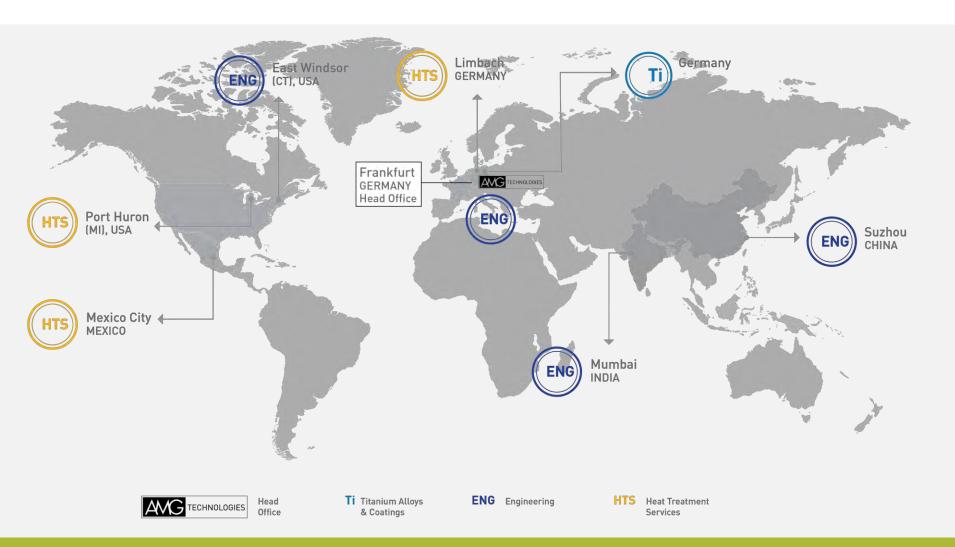


AMG Technologies is leading supplier of equipment, materials and services to the transportation sector (primarily aerospace)

FINANCIAL SUMMARY – FY 2018 VERSUS FY 2017

AMOUNTS IN USD MILLIONS	FY 2018	FY 2017	% CHANGE
Revenue	\$436.8	\$367.8	19%
Gross Profit	\$116.7	\$90.0	30%
Gross Margin %	26.7%	24.5%	2%
EBITDA	\$67.5	\$45.5	48%
Capital Expenditures	\$14.5	\$16.7	(13%)
Return On Capital Employed (ROCE)	26.1% *	29.8%	(4%)
Order Intake (Vacuum Furnaces Operations)	\$315.9	\$290.4	9%
Order Backlog (Vacuum Furnaces Operations)	\$241.4	\$207.0	17%

AMG TECHNOLOGIES GLOBAL FOOTPRINT



Total headcount of approximately 1,350 staff employed across Europe, the USA, Mexico and Asia

AMG TECHNOLOGIES – VALUE PROPOSITION

STRONG END MARKET FUNDAMENTALS

Strong aerospace market is driving substantial growth for AMG Technologies, driven by both new aircraft build rates and new engine programs designed to improve fuel efficiency and reduce CO₂ emissions (i.e. LEAP engine platform)

INDUSTRY LEADING TECHNOLOGY SOLUTIONS AND PRODUCTS

AMG Technologies offers industry leading technology solutions from the air inlet to the exhaust outlet of a modern aircraft engine

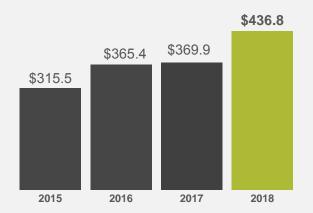
EXISTING PRODUCT
PORTFOLIO AND NEW
INNOVATIONS PROVIDE
SIGNIFICANT
OPPORTUNITIES FOR
FUTURE GROWTH

AMG Technologies' has developed market leading positions in a number of high growth aerospace applications, and continues to develop innovative solutions and products to drive future growth

AMG Technologies has achieved an EBITDA CAGR of 44% since 2015

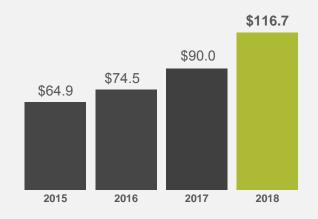
DRIVING FINANCIAL GROWTH 2015 - 2018





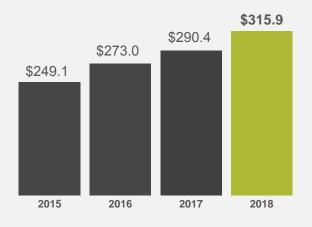
CAGR: 11%

GROSS PROFIT (IN MILLIONS OF US DOLLARS)



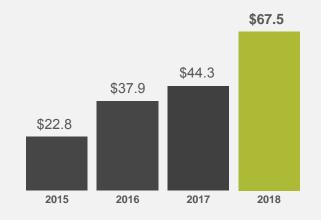
CAGR: 22%

ORDER INTAKE (IN MILLIONS OF US DOLLARS) AMG ENGINEERING ONLY



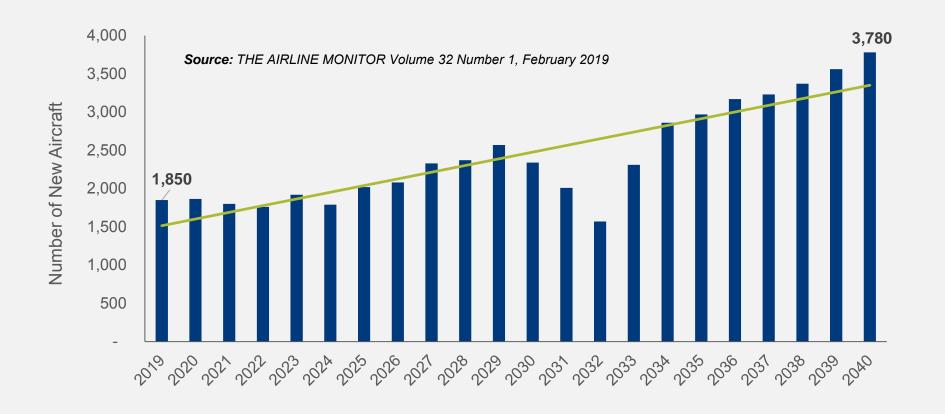
BOOK TO BILL RATIO OF 1.22X IN 2018 AMG ENGINEERING

EBITDA (IN MILLIONS OF US DOLLARS)



CAGR: 44%

FORECAST NEW AIRCRAFT DELIVERIES: AIRBUS AND BOEING



Underlying fundamentals point to continued growth in this critical end market

SUSTAINED GROWTH IN LEAP ENGINE PLATFORM THROUGH 2036





Boeing and Airbus new aircraft forecast as of October 2018 results in a total demand for LEAP 1A/B engines for single aisle aircraft of approximately 88,000 units

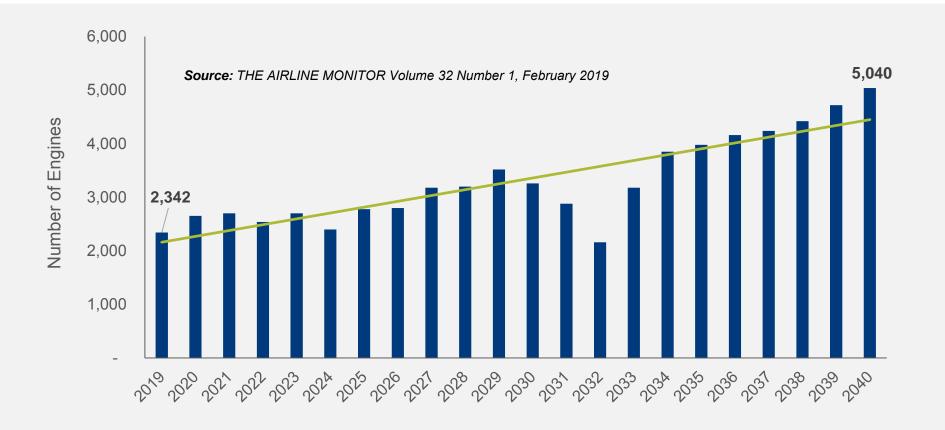




37,740 new airplanes

Airbus Global Market Forecast 2017 - 2036 Boeing Current Market Outlook 2017 - 2036

FORECAST ENGINE DELIVERIES: AIRBUS 320 NEO AND BOEING 737 MAX



Underlying fundamentals point to continued growth in this critical end market

AMG TECHNOLOGIES – VALUE PROPOSITION

STRONG END MARKET FUNDAMENTALS

Strong aerospace market is driving substantial growth for AMG Technologies, driven by both new aircraft build rates and new engine programs designed to improve fuel efficiency and reduce CO2 emissions (i.e. LEAP engine platform)

INDUSTRY LEADING TECHNOLOGY SOLUTIONS AND PRODUCTS

AMG Technologies offers industry leading technology solutions from the air inlet to the exhaust outlet of a modern aircraft engine

EXISTING PRODUCT
PORTFOLIO AND NEW
INNOVATIONS PROVIDE
SIGNIFICANT
OPPORTUNITIES FOR
FUTURE GROWTH

AMG Technologies' has developed market leading positions in a number of high growth aerospace applications, and continues to develop innovative solutions and products to drive future growth

AMG Technologies has achieved an EBITDA CAGR of 44% since 2015

SELECT TECHNOLOGY HIGHLIGHTS







- Vacuum melting technologies
- Thermal barrier coaters (world leader)
- Ceramic matrix composite (CMC) fiber coaters
- Powder atomization machines (Ti & Nibased alloys)
- Heat treatment furnaces





- Titanium Aluminides (world leader)
- Master alloys for titanium alloys
- Master alloys for Ni-based superalloys
- Physical vapor deposition (PVD) coating materials
- Hydrogen storage alloys for fuel cells

AMG Technologies offers technological solutions from the air inlet to the exhaust outlet of a modern aircraft engine

AMG TECHNOLOGIES IN THE LEAP ENGINE

Compressor Applications



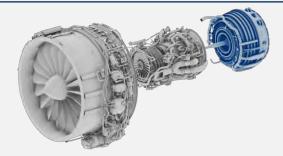
- Remelting Furnaces e.g. for Ti64
- Atomization Furnaces for Plasma Spray Powder, HIP'ed and Forged Parts
- Master Alloys for Ti Base Alloys
- Plasma Melting Systems for Ti Base Alloys

High-Pressure Turbine & Combustion Section



- Equipment for CMC Shrouds
- EB-PVD Coaters for Thermal Barrier Coatings
- Hot Isothermal Forging Systems for Superalloy Disks
- VIM Furnaces for Ni Base Superalloys
- Master Alloys for Ni Base Superalloys

Low-Pressure
Turbine



- Hot Isothermal Forging Systems for Ni-based alloys
- Plasma Melting Systems for Titanium Aluminides
- VAR and VIM Furnaces for Titanium Aluminides
- Titanium Aluminide Feedstock for Blades

AMG IS THE GLOBAL LEADER IN TITANIUM ALUMINIDES

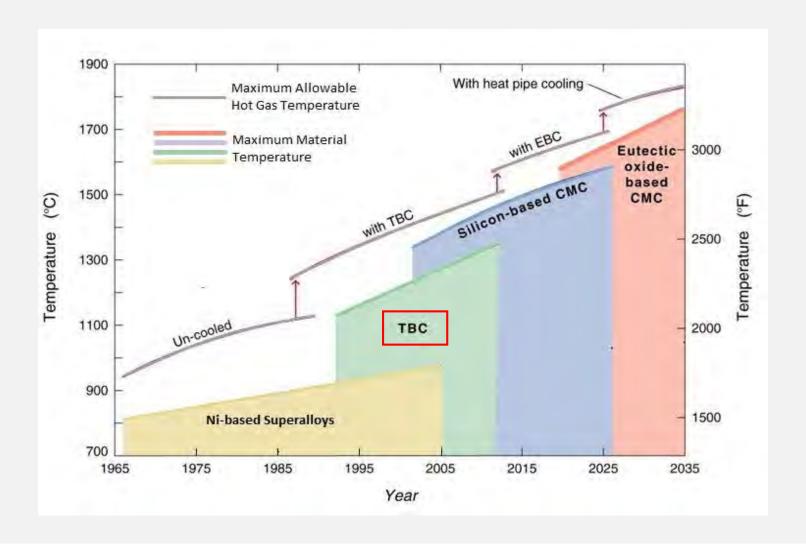


Titanium Aluminide can replace Nickel based materials in the final stages of the low pressure turbine (LPT)

As demonstrated below, two titanium aluminide blades on the right side of the scale weigh less, combined, than a single Nickel based alloy blade



THERMAL BARRIER COATING REVOLUTION



THERMAL BARRIER COATING ("TBC")

AMG is the Global Leader in TBC Technology, with 23 of the 24 advanced TBC systems in operation globally developed by AMG



AMG TECHNOLOGIES - VALUE PROPOSITION

STRONG END MARKET FUNDAMENTALS

Strong aerospace market is driving substantial growth for AMG Technologies, driven by both new aircraft build rates and new engine programs designed to improve fuel efficiency and reduce CO2 emissions (i.e. LEAP engine platform)

INDUSTRY LEADING TECHNOLOGY SOLUTIONS AND PRODUCTS

AMG Technologies offers industry leading technology solutions from the air inlet to the exhaust outlet of a modern aircraft engine

EXISTING PRODUCT
PORTFOLIO AND NEW
INNOVATIONS PROVIDE
SIGNIFICANT
OPPORTUNITIES FOR
FUTURE GROWTH

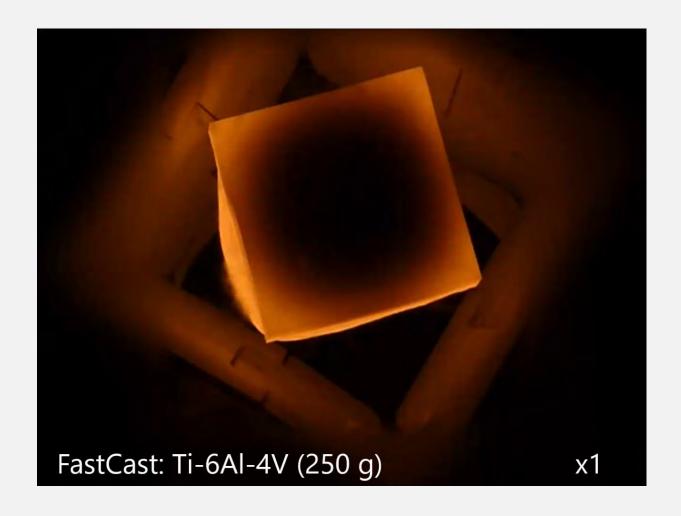
AMG Technologies' has developed market leading positions in a number of high growth aerospace applications, and continues to develop innovative solutions and products to drive future growth

AMG Technologies has achieved an EBITDA CAGR of 44% since 2015

INNOVATIONS DRIVING FUTURE GROWTH

- Ceramic Matrix Composite (CMC) fiber coater development of nextgeneration aerospace coating technology, permitting higher turbine temperatures while achieving significant weight reductions
- Additive manufacturing powder production and innovative 3D printing technology equipment, capable of producing larger components
- FastCast new, proprietary casting technology which significantly improves yield in the casting process (e.g. low pressure turbine blades for aero engines)

FASTCAST IN OPERATION



HEALTH AND SAFETY FOCUS

SAFETY INDICATORS

At the end of Q1 2019, lost time incident rate and total incident rate were down 27% and 33%, respectively, from Q1 2018.



12 MONTHS ENDING	LOST TIME INCIDENTS IN THE LAST 12 MONT		12 MONTH AVERAGE ATE TOTAL INCIDENT RATE
Q1 2018	9	0.91	1.41
Q1 2019	7	0.66	0.94

Rigorous commitment to safety reflected in continually improving safety records

