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AMG IS A CRITICAL MATERIALS COMPANY

DEMAND

Innovative new products that are lighter, stronger, and resistant to higher temperatures

SUPPLY

AMG sources, processes, and supplies the critical materials that the market demands

GLOBAL TRENDS

CO₂ emission reduction, circular economy, population growth, increasing affluence, and energy efficiency



LEADER IN ADVANCED TECHNOLOGIES TO ADDRESS CO₂ REDUCTION

CO₂ REDUCTION

A GLOBAL IMPERATIVE FOR THE 21ST CENTURY

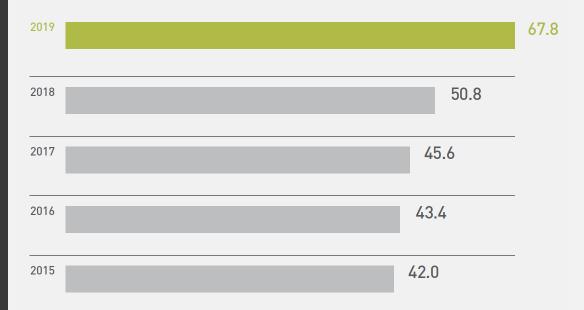
AMG: ENABLING TECHNOLOGIES

Products and processes saving CO₂ emissions during use (e.g., light-weighting and fuel efficiency in the aerospace and automotive industries)

AMG: MITIGATING TECHNOLOGIES

Products and processes saving raw materials, energy and CO₂ emissions during manufacturing (e.g., recycling of Ferrovanadium)

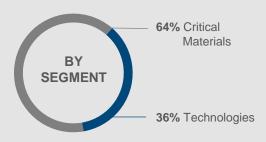
AMG'S ENABLED CO₂ EMISSION REDUCTIONS (Million MT)



12.7%

AMG AT A GLANCE

FY 2019 REVENUE

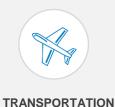






AMG IS A
GLOBAL SUPPLIER
OF CRITICAL
MATERIALS TO:









ON INFRASTRUCTURE

SPECIALTY METALS AND CHEMICALS

Market leading producer of highly engineered specialty metals and vacuum furnace systems

~3,300 Employees

~\$1 billion
Annual Revenues

At the forefront of CO₂ Reduction

AMG BUSINESS SEGMENTS

AMG CRITICAL MATERIALS

AMG's conversion, mining, and recycling businesses

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



AMG TECHNOLOGIES

AMG's titanium alloys, vacuum systems and services business

- Titanium Alloys & Coatings
- Furnaces
- Heat treatment services



STRONG FUNDAMENTALS, ADAPTIVE TO GLOBAL DISRUPTION

Optimized Capital Structure	 Robust liquidity: \$200M in cash; \$170M in undrawn revolver capacity Covenant-lite Term Loan B matures in 2025 \$307M 30-year 4.3% Municipal Bond finances 100% of the ferrovanadium expansion in Zanesville, OH
Business Resilience	 Focus on operational efficiency Reduction of operating costs and capital expenditures Momentum on positive business gains, strong backlogs into early 2020
Disciplined Approach to Growth	 Shell & AMG Recycling B.V joint venture now operational Ohio ferrovanadium expansion Lithium hydroxide refining plant in Germany

The fundamental positions of our businesses are sound, and AMG remains focused on disciplined, sustainable growth

STRATEGY

AMG's strategy is to build its critical materials business through industry consolidation, process innovation and product development

PROCESS INNOVATION & PRODUCT DEVELOPMENT

Continue to focus on process innovation and product development to improve the market position of AMG's businesses

INDUSTRY CONSOLIDATION

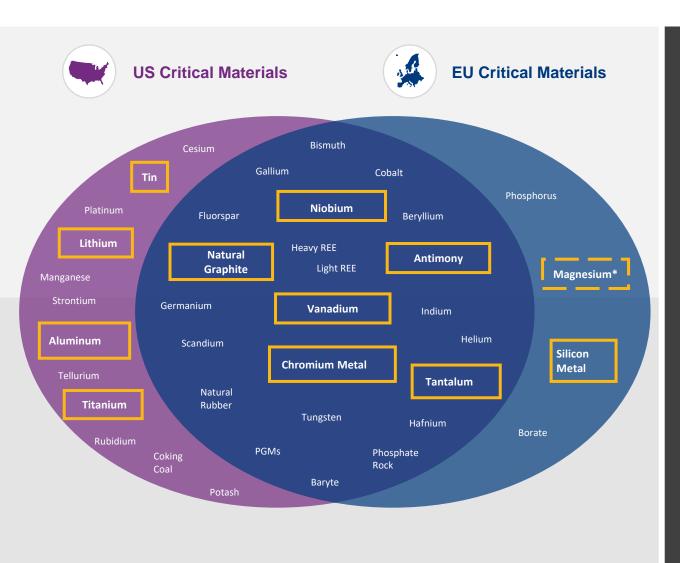
Pursue opportunities for horizontal and vertical industry consolidation across AMG's critical materials portfolio

EXPANSION OF EXISTING HIGH-GROWTH BUSINESSES

Pursue opportunities in high-growth areas within the existing product portfolio

AMG's overriding strategic objective is to achieve industry leadership while being the low-cost producer

CRITICAL RAW MATERIALS: AMG PRESENCE

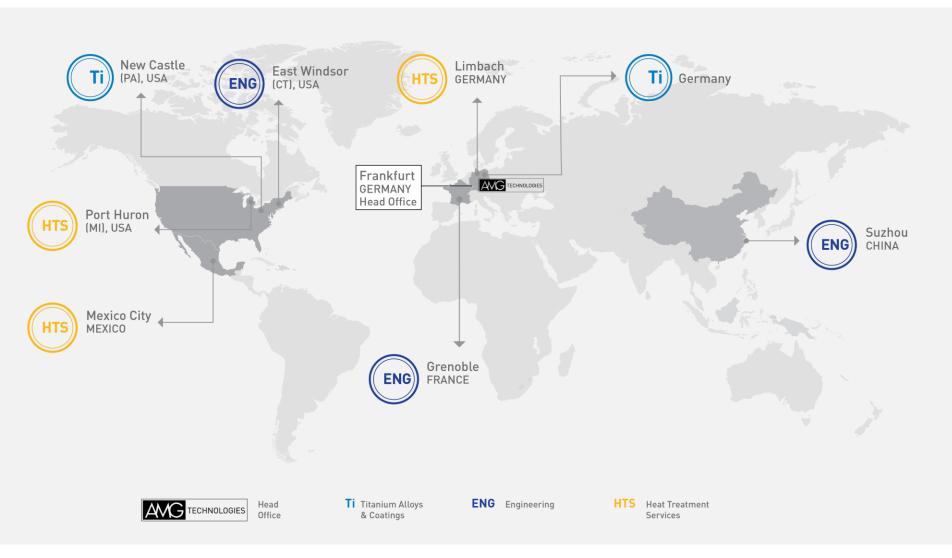


- AMG has a unique critical materials portfolio comprising of 7 EU critical materials and 10 US critical materials
- The EU identifies
 27 total critical raw
 materials, the US 35

AMG GLOBAL FOOTPRINT: CRITICAL MATERIALS



AMG GLOBAL FOOTPRINT: AMG TECHNOLOGIES



HEALTH AND SAFETY FOCUS



Safety Indicators

AMG compares itself to the industry average for Primary Metal Manufacturing (NAICS 331).

The most recent data provided in 2018 by the United States Bureau of Labor Statistics reports that the Primary Metal Manufacturing industry's total recordable case rate was **4.60** and the lost time rate was **2.80**.

YEAR	LOST TIME INCIDENTS IN THE LAST 12 MONTHS	12 MONTH AVERAGE LOST TIME INCIDENT RATE	12 MONTH AVERAGE TOTAL INCIDENT RATE
2018	17	0.58	1.23
2019	25	0.80	1.46



Internal safety performance in both lost time incidence rate and recordable incidence rate has slightly regressed yearover-year, interrupting a 5year improvement trend.

CRITICAL MATERIALS – MARKET TRENDS

CRITICAL MATERIALS	MAJOR END MARKETS	MARKET TRENDS	MAJOR CUSTOMERS
AMG VANADIUM FERROVANADIUM FERRONICKEL-MOLYBDENUM	INFRASTRUCTURE	INFRASTRUCTURE GROWTH	GD GERDAU
AMG BRAZIL TANTALUM & NIOBIUM	MICRO CAPACITORS, SUPERALLOYS	COMMUNICATIONS & ELECTRONICS FUEL EFFICIENCY	※ATI H.C.Starck ▲
AMG LITHIUM LITHIUM CONCENTRATE (SPODUMENE)	BATTERIES	RENEWABLE ENERGY COMMUNICATIONS & ELECTRONICS	CONFIDENTIAL
AMG SILICON SILICON METAL	ALUMINUM ALLOYS, SOLAR	FUEL EFFICIENCY CLEAN ENERGY	AMAG_ AUSTRIA METALL
ENERGY	TRANSPORTATION	INFRASTRUCTURE	SPEC. METALS AND CHEM.

CRITICAL MATERIALS – MARKET TRENDS

CRITICAL MATERIALS	MAJOR END MARKETS	MARKET TRENDS	MAJOR CUSTOMERS
AMG GRAPHITE NATURAL GRAPHITE	EXPANDED POLYSTYRENE (EPS),BATTERY ANODES	ENERGY SAVING ENERGY STORAGE	Sunpor Höganäs H
AMG ANTIMONY ANTIMONY TRIOXIDE ANTIMONY MASTERBATCHES ANTIMONY PASTES	FLAME RETARDANTS	PLASTICS	OUPOND TRELLI
AMG SUPERALLOYS UK CHROMIUM METAL	AEROSPACE	FUEL EFFICIENCY	PCC
AMG ALUMINUM ALUMINUM MASTER ALLOYS ALUMINUM POWDERS	AEROSPACE, AUTOMOTIVE	FUEL EFFICIENCY	Constellium RioTinto
ENERGY	TRANSPORTATION	infrastructure	SPEC. METALS AND CHEM.

AMG TECHNOLOGIES – MARKET TRENDS

CRITICAL MATERIALS	MAJOR END MARKETS	MARKET TRENDS	MAJOR CUSTOMERS
AMG TITANIUM ALLOYS & COATINGS TITANIUM MASTER ALLOYS & COATINGS	AEROSPACE	FUEL EFFICIENCY ENERGY SAVING	SAFRAN Snecma
AMG ENGINEERING CAPITAL GOODS (VACUUM FURNACES)	AEROSPACE, AUTOMOTIVE	FUEL EFFICIENCY ELECTRONICS	Rolls-Royce CARPENTER ThyssenKrupp
AMG ENGINEERING VACUUM HEAT TREATMENT SERVICES	AEROSPACE, AUTOMOTIVE	FUEL EFFICIENCY	MAGNA Ontinental The Future in Motion
ENERGY	TRANSPORTATION	INFRASTRUCTURE	SPEC. METALS AND CHEM.



FY 2019 AT A GLANCE

AMOUNTS IN \$M (EXCEPT EARNINGS PER SHARE)	FY 2019	FY 2018	% CHANGE
Revenue	\$1,188.6	\$1,310.3	(9%)
Gross Profit	\$118.3	\$315.2	(62%)
Gross Margin %	10.0%	24.1%	(59%)
(Loss) Profit before Income Taxes	(\$53.7)	\$139.8	N/A
EBITDA	\$121.4	\$217.1	(44%)
EBITDA Margin %	10.2%	16.6%	(39%)
Net Debt (Cash)	\$162.9	(\$0.5)	N/A
Return On Capital Employed (ROCE)	13.7%	35.4%	(61%)
Adjusted Net Income*	\$19.8	\$97.1	(80%)
Diluted Earnings per Share	(1.64)	2.97	N/A

- Profitability was lower in 2019 than in 2018 due largely to an unprecedented fall in critical materials prices across the AMG portfolio
- AMG's status as a lowcost producer across all nine of its business units ensured that each one was EBITDA positive throughout 2019

AMG

CONSOLIDATED BALANCE SHEET

AS OF IN MILLIONS OF US DOLLARS	DECEMBER 31, 2019	DECEMBER 31, 2018
Fixed assets	430.0	328.0
Goodwill and intangibles	41.9	35.1
Other non-current assets	96.5	74.4
Restricted cash	309.6	1.7
Inventories	204.2	316.7
Receivables	119.1	138.5
Other current assets	44.5	44.6
Cash	226.2	381.9
TOTAL ASSETS	1,472.0	1,320.9
TOTAL EQUITY	184.4	344.0
Long-term debt	669.5	357.0
Long-term lease liabilities	46.5	_
Employee benefits	175.9	149.2
Other long-term liabilities	41.2	50.0
Current debt	29.2	24.4
Current lease liabilities	4.2	_
Accounts payable and accruals	217.6	290.6
Advance payments	57.6	50.2
Other current liabilities	45.9	55.5
TOTAL LIABILITIES	1,287.6	976.9
TOTAL EQUITY AND LIABILITIES	1,472.0	1,320.9

CONSOLIDATED INCOME STATEMENT

FOR THE YEAR ENDED IN MILLIONS OF US DOLLARS	DECEMBER 31, 2019	DECEMBER 31, 2018
Revenue	1,188.6	1,310.3
Cost of sales	1,070.3	995.1
Gross profit	118.3	315.2
Selling, general & administrative	143.5	143.6
Environmental expense	0.7	8.8
Other income, net	(0.2)	(0.5)
Operating (loss) profit	(25.8)	163.3
Net finance costs	27.9	23.5
(Loss) profit before income taxes	(53.7)	139.8
Income tax (benefit) expense	(5.1)	45.0
(Loss) profit for the period	(48.6)	94.8
Shareholders of the Company	(48.3)	94.6
Non-controlling interest	(0.3)	0.2
ADJUSTED EBITDA	121.4	217.1

CONSOLIDATED STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED IN MILLIONS OF US DOLLARS	DECEMBER 31, 2019	DECEMBER 31, 2018
EBITDA	121.4	217.1
Change in working capital and deferred revenue	76.2	(73.1)
Other operating cash flow	(103.3)	(7.0)
Cash generated from operating activities	94.3	137.0
Finance costs paid, net	(23.1)	(18.3)
Income tax paid	(24.6)	(21.3)
Net cash flow from operating activities	46.6	97.4
Capital expenditures	(79.4)	(73.0)
Change in restricted cash (municipal bond)	(307.9)	(0.9)
Other investing activities	(22.6)	2.6
Net cash flow used in investing activities	(409.9)	(71.3)
Net cash flow from financing activities	208.7	182.7
Net (decrease) increase in cash and equivalents	(154.6)	208.8
Cash and equivalents at January 1	381.9	178.8
Effect of exchange rate fluctuations on cash held	(1.1)	(5.7)
CASH AND EQUIVALENTS AT DECEMBER 31	226.2	381.9

NET (LOSS) INCOME TO EBITDA RECONCILIATION

FOR THE YEAR ENDED IN MILLIONS OF US DOLLARS	DECEMBER 31, 2019	DECEMBER 31, 2018
Net (loss) income	(48,586)	94,781
Income tax (benefit) expense	(5,119)	44,971
Net finance cost *	27,626	22,949
Equity-settled share-based payment transactions	5,514	7,499
Restructuring expense	3,265	2,052
Inventory cost adjustment	87,792	-
Asset impairment expense	4,519	3,333
Environmental provision	725	8,757
Exceptional legal expense	3,133	_
Others	546	(243)
EBIT	79,415	184,099
Depreciation and amortization	41,967	33,034
EBITDA	121,382	217,133

^{*}Excludes foreign exchange expense (income)