

A nighttime photograph of a dense urban skyline, likely Tokyo, featuring numerous illuminated skyscrapers and a complex network of highways with light trails from traffic. The image is framed by a large, stylized blue geometric shape that curves around the left and bottom edges, creating a modern, architectural feel.

LEADING THE CRITICAL MATERIALS REVOLUTION



Capital Markets Day 2016
AMG Engineering
June 16, 2016



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Overview



AMG Critical Materials

- Vanadium
- Superalloys
- Titanium Alloys & Coatings
- Aluminum Alloys
- Tantalum & Niobium
- Antimony
- Graphite
- Silicon

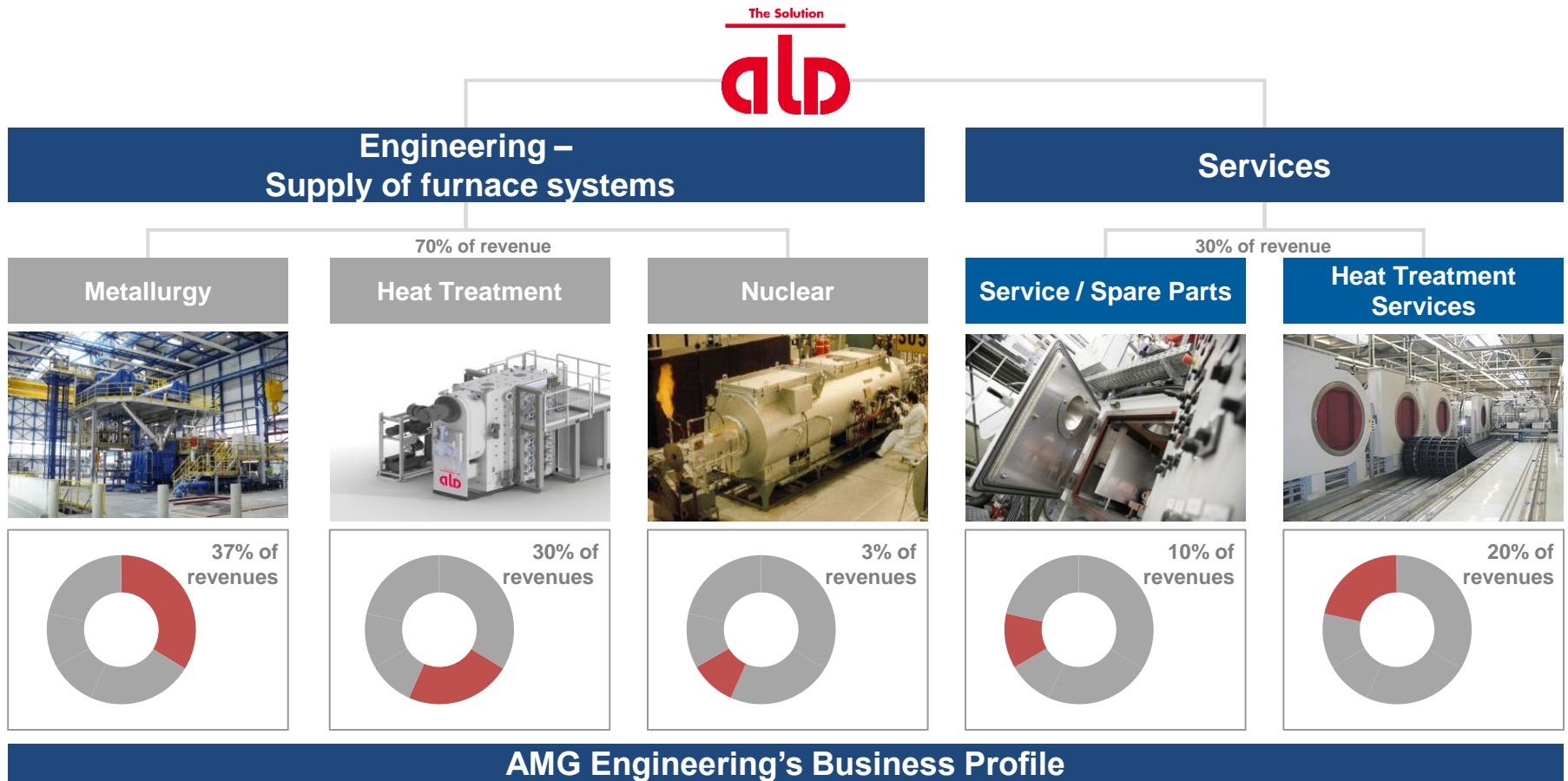
AMG Engineering

- Engineering
- Heat Treatment Services

AMG Engineering Key Facts

- Over 100 years of experience in vacuum metallurgy and heat treatment
- Engineering facilities in Germany, France, USA, India and China; three heat treatment service centers in Germany, the U.S., and Mexico
- Owns 85 patent families
- Approximately 850 employees

Overview

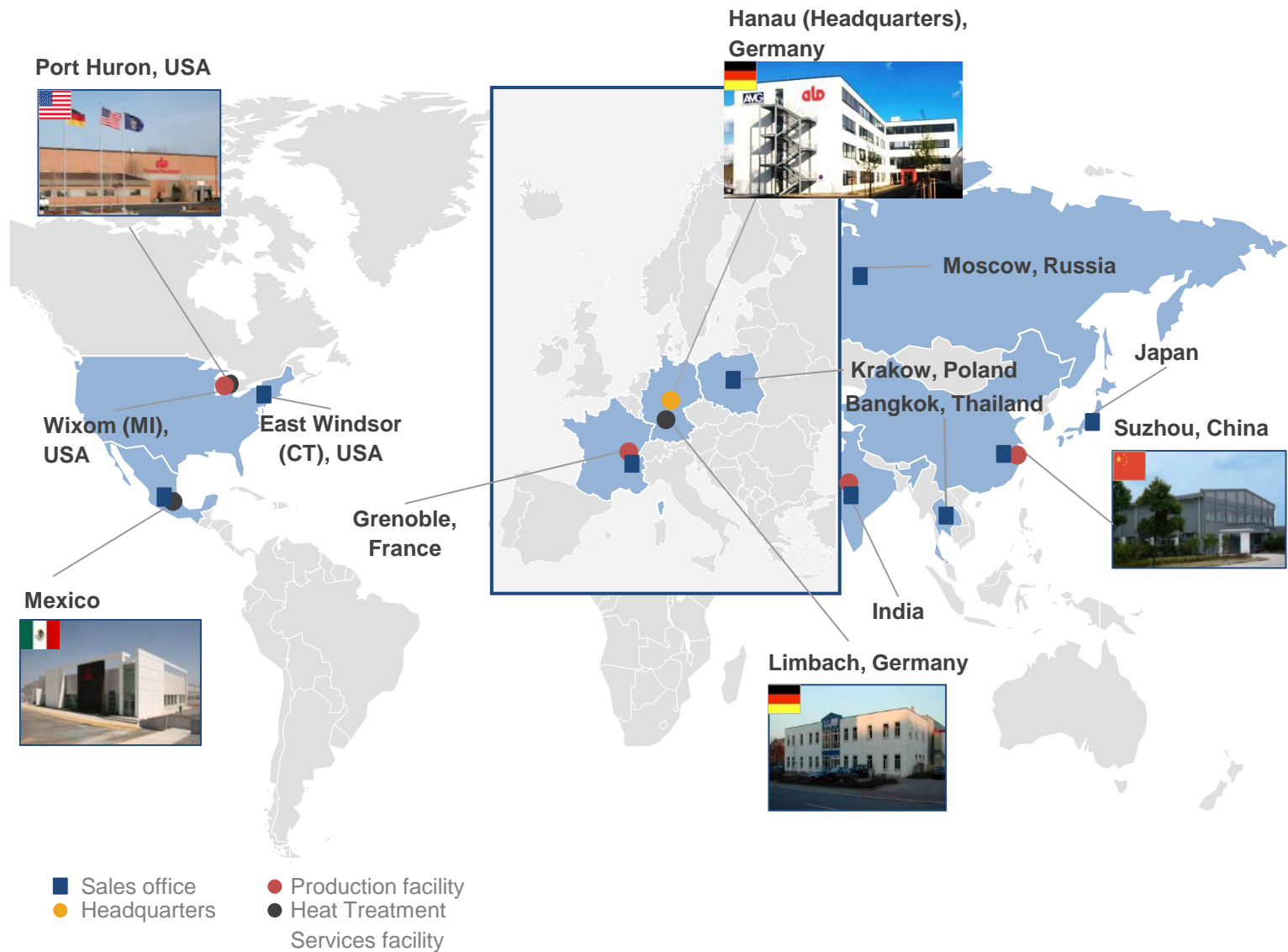


- Asset light
- High-tech engineering with outsourced manufacturing
- People are the main business asset

Note: Figures based on 2015 revenue split

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Overview – Locations

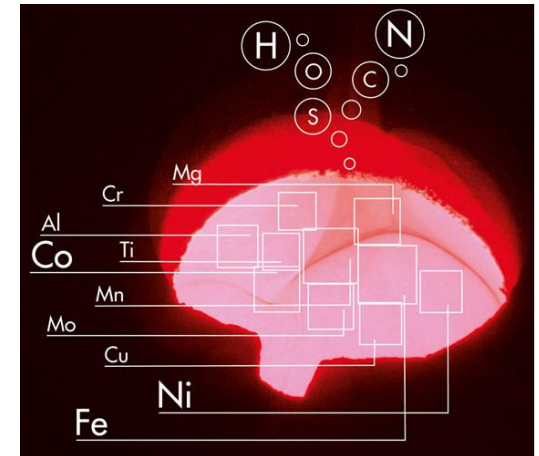


Strategy

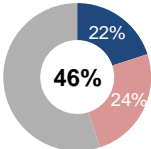

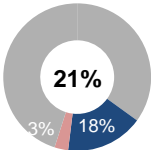

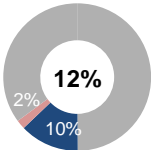

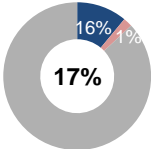
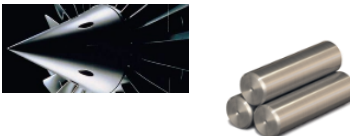
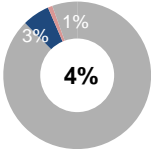
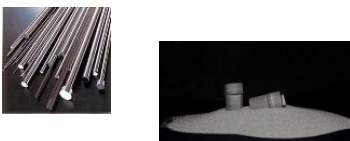
- AMG Engineering provides vacuum process technology and services for high-purity metals and critical materials products to the global market
 - Deliver customer-specific solutions across all market segments
 - Leading market presence in core technologies
 - New technology and products provide upside potential
 - Well represented in key economic regions serving blue chip clients
- AMG Engineering's vision is to defend its position as:
 - No. 1 innovator in vacuum metallurgy and vacuum heat treatment
 - Global market leader in vacuum furnaces, processes and services
 - Cost leader in its fields of competence

Strategy – Value Drivers in Engineering

- Diversification and stability – broad product portfolio, global customer base and industry sectors
- Reduce Market Volatility – generate services revenue
- Technology Innovations
- Minimize Working Capital – order intake with high portion of down payment
- Avoid cost overruns – precision in product quality and cost calculation
- Global Sourcing – collaborate with experienced/qualified suppliers
- Develop human capital – people are the main asset



Market – Products, End Markets, and Applications

% of revenues ¹	Products	Applications
Automotive	 <ul style="list-style-type: none"> Vacuum heat treatment furnace systems Vacuum case hardening heat treatment services 	
Aerospace	 <ul style="list-style-type: none"> Turbine blade coating furnace systems Vacuum precision casting furnace systems Vacuum re-melting furnace systems 	
Energy	 <ul style="list-style-type: none"> Solar silicon melting and crystallization furnace systems Vacuum sintering and annealing furnace systems Vacuum powder metallurgy furnace systems 	
Specialty Metals & Chemicals	 <ul style="list-style-type: none"> Vacuum re-melting furnace systems Vacuum melting furnace systems Vacuum powder metallurgy furnace systems 	
Infrastructure	 <ul style="list-style-type: none"> Vacuum re-melting furnace systems Vacuum melting furnace systems Vacuum powder metallurgy furnace systems 	

1) 1% of revenues is allocated to other end markets based on 2015

■ % of revenues from engineering

■ % of revenues from services

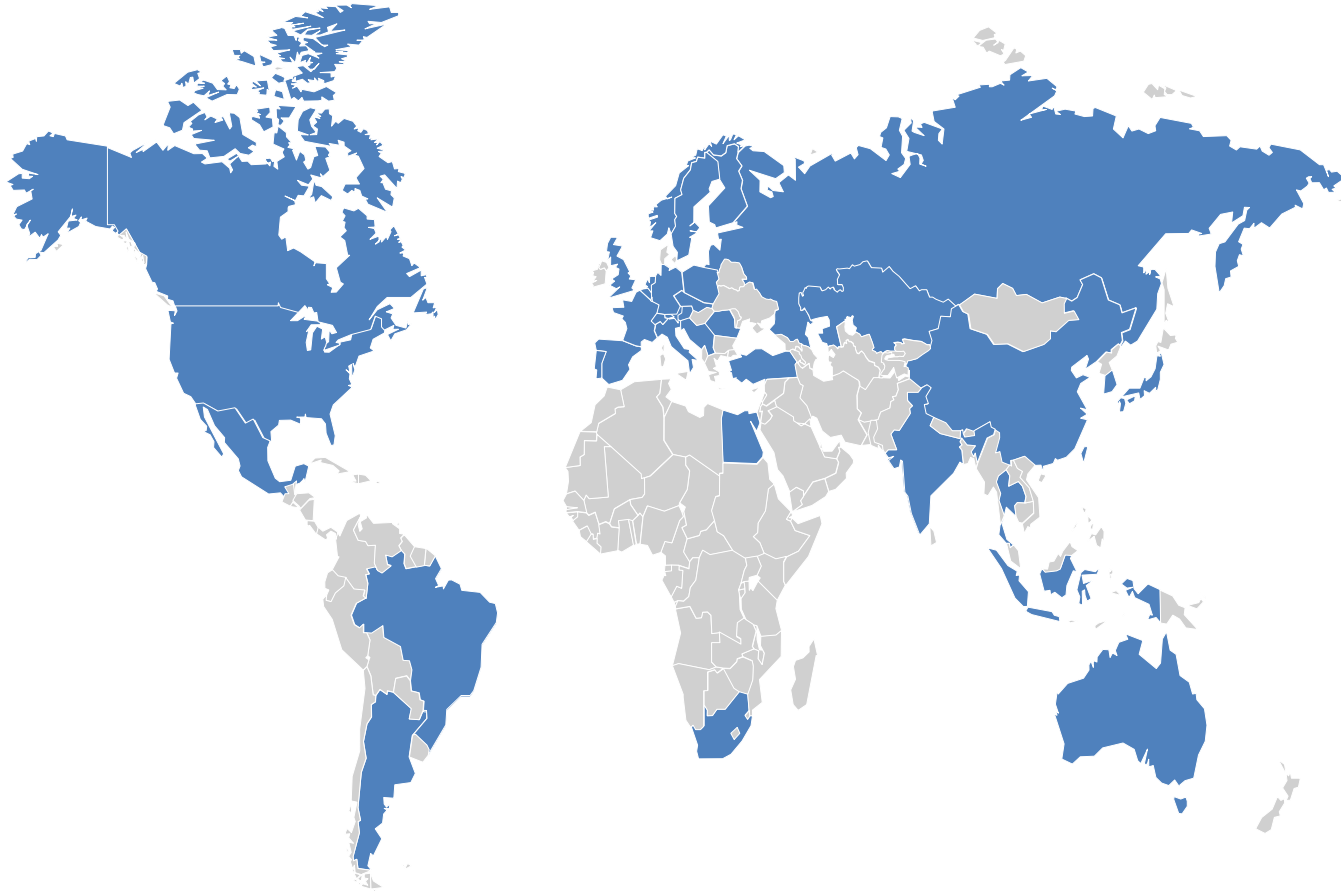
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Market – Leading Market Position



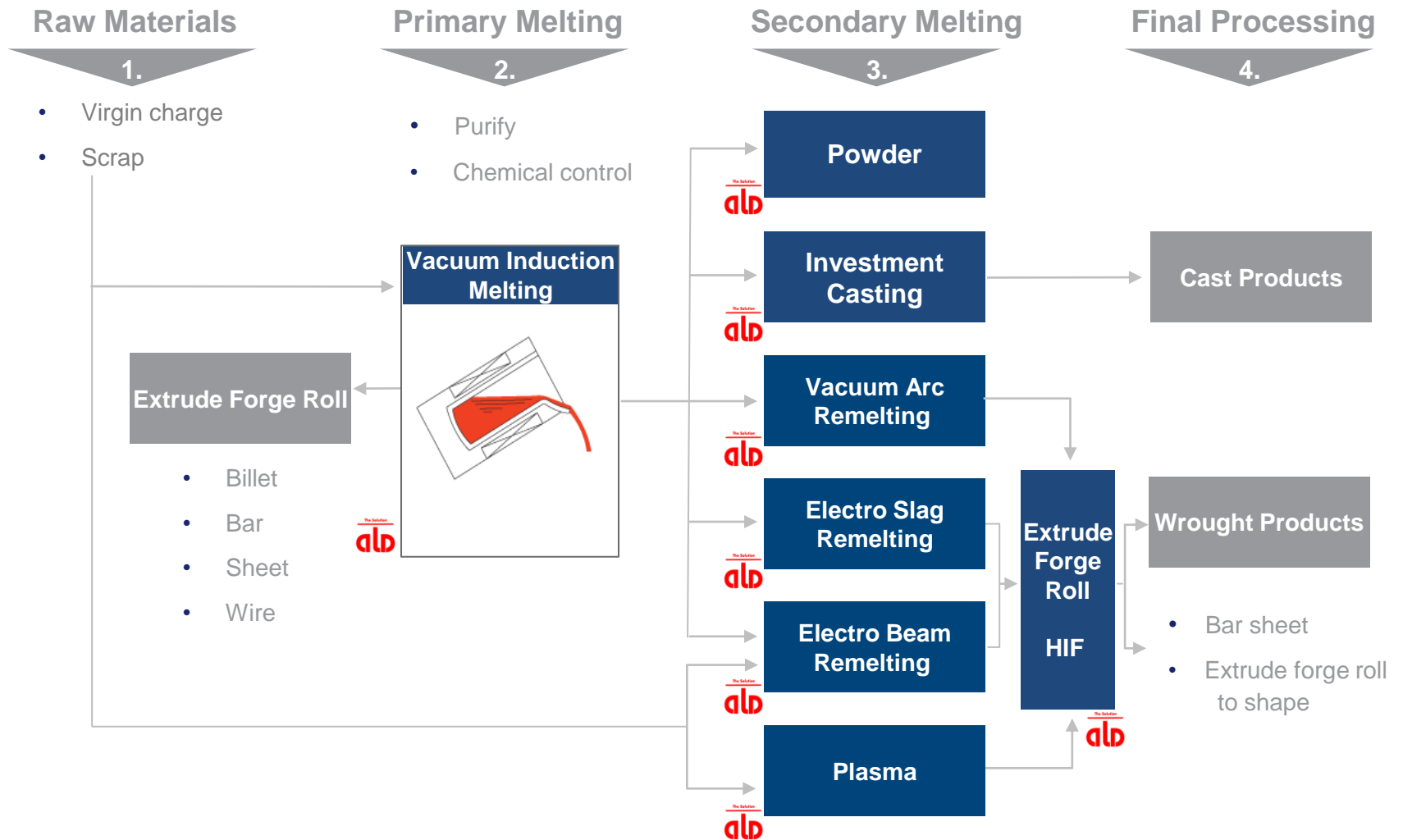
Market – Global Installed Base

Asia > ~ 660 systems installed
Europe > ~ 750 systems installed
North America > ~ 150 systems installed



Note: Shaded countries represent AMG Engineering's countries of presence; Systems installed is based on the number of installed furnaces until March 2013

Value Chain for Metallurgy



Legend:

External Process

AMG's operation

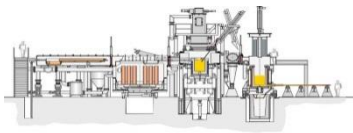
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Technology and Products – Metallurgy

Melting & Casting

Technology

VIM-VIDP



Products



Rivets and Bolts

Bearings



Landing Flaps



Re-Melting

ESR, VAR



Cold Rolls



Turbine and Crank Shaft

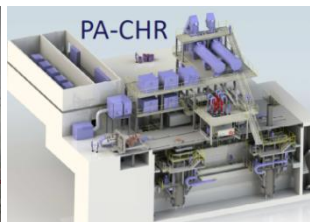


Special steel ingot 165 t



Plasma Melting

Electron Beam, Plasma Cold Hearth Melting



Round Ingot and square slaps



Technology and Products – Metallurgy

Investment Casting

Technology

VIM-IC / Leicomelt



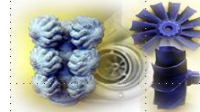
Products



Turbine blades



TiAl Valves



Turbocharger



Golf clubs

Coating

EB-PVD, Smart Coater



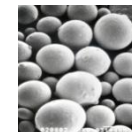
Engine for
Aviation Industry



Turbine blade
coated with
TBC

Powder

VIGA, EIGA



Spherical
powder



Plasma spray and
applications for MIM parts



3D printing application

Technology and Products – Metallurgy

Solar

Technology

SCU 650 – Gen6



SMC1000 – 4x Gen5

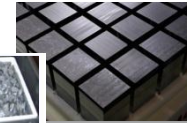


Products

Si-Bricks



Si-Ingots

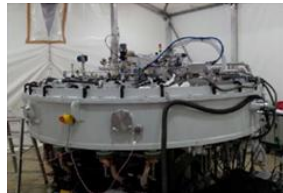


PV-Panel



Glass Forming & Treatment

Vacuum Creep Forming of Glass



Glass Annealing



Mobile Cover Sheet



Optical fiber



Hot Isothermal Forging

Hot Isothermal Forging for Near Net Shape Technologies



Turbine blades, turbine disks, for jet-engines and energy supply turbines, etc. using advanced materials such as Titanium and Nickel-based alloys

Technology and Products – Heat Treatment

Technology

Products

Modular, flexible
LPC-system

ModulTherm



Large size – multi
layer loads

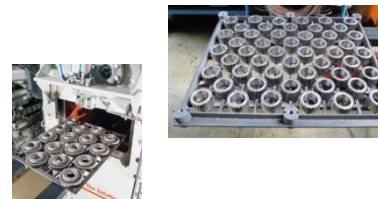


One-Piece- Flow
LPC system

SyncroTherm



Small size -
single layer loads



Sintering

VKP Furnace



Cemented
Carbides Tools



Technology and Products – Heat Treatment Services

LPC/HPGQ based Services

Technology

ModulTherm



Products

Large load size – high hardness and high distortion requirements

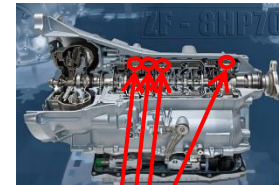


Nitriding Services

Nitriding Systems



Very large load size – moderate hardness and high distortion requirements



Safety, Health, and Environmental

Period Ending March	Lost Time Incidents in the Last 12 Months	12 Month Average Lost Time Incident Rate	Days Lost to Lost Time Incidents in Last 12 Months	12 Month Average Incident Severity Rate
2015	13	1.12	85	0.064
2016	10 	0.62 	25 	0.018 

Leading Safety Indicators – Q1 2016 vs. Q1 2015

- 5,664 hours of safety training to the 824 FTE, down 29%
- 137 near miss or unsafe conditions to 824 FTE, down 22%
- 263 internal safety audits or inspections, down 11%

Incidents and Missed Days Q1 2016

- 4 lost time incidents (LTI) in 2015 (25 missed work days)
- 6 serious (medical treatment required) incidents
- 47 first aid incidents

Sb

Mo

Cr

C

V

Ni

Ti

Ta

Al

Nb

Si

AMG