



**Kymera**<sup>®</sup>  
INTERNATIONAL  
*Pioneers in Material Science*<sup>™</sup>

## Kymera Overview

INTERNATIONAL TRADE FAIR  
JOINING • CUTTING • SURFACING

LET'S JOIN  
THE WORLD!  
September 11 - 15, 2023



VISIT US!

HALL 8  
BOOTH C25



DVS GERMAN WELDING SOCIETY

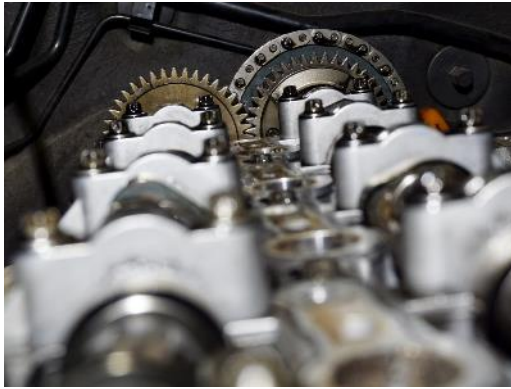
MESSE  
ESSEN





# Today Kymera Products are Used for...

Automotive Engines  
and Transmissions



Aircraft Engines  
and Aerostructures



High Purity Personal  
Care Products



Hip and Knee  
Implants



Metal Additive  
Manufacturing



High Uptime  
Industrial Equipment






*Kymera is the leading Global high-volume primary producer of non-ferrous metal powders*



# Broad Product Offering

Our products cater to top echelon customers across a wide range of industries and a variety of end markets and applications.

RED METALS	LIGHT METALS	TITANIUM & MASTER ALLOY	SPECIALTY REFINING
<p><b>MATERIAL TYPES</b></p> <ul style="list-style-type: none"> <li>• Copper (Cu)</li> <li>• Tin (Sn)</li> <li>• Zinc (Zn)</li> </ul>  <p><b>SELECT END MARKETS</b></p> <ul style="list-style-type: none"> <li>• Automotive</li> <li>• Building</li> <li>• Chemical</li> <li>• Industrial</li> </ul> <p><b>SELECT APPLICATIONS</b></p> <p>High precision components for electric motors and demanding auto applications</p>  <p>AM copper components that require both high conductivity and strength</p> 	<p><b>MATERIAL TYPES</b></p> <ul style="list-style-type: none"> <li>• Aluminum (Al)</li> </ul>  <p><b>SELECT END MARKETS</b></p> <ul style="list-style-type: none"> <li>• Chemical</li> <li>• Automotive</li> <li>• Industrial</li> </ul> <p><b>SELECT APPLICATIONS</b></p> <p>Aluminum powder used in the manufacturing of detergents and personal care items</p>  <p>Lightweight aluminum powders used for auto transmission and engine components</p> 	<p><b>MATERIAL TYPES</b></p> <ul style="list-style-type: none"> <li>• Titanium (Ti)</li> <li>• Vanadium (V)</li> </ul>  <p><b>SELECT END MARKETS</b></p> <ul style="list-style-type: none"> <li>• Aerospace and defense</li> <li>• Medical</li> </ul> <p><b>SELECT APPLICATIONS</b></p> <p>Titanium used in commercial and defense aero engines and airframe structures</p>  <p>Titanium powders used for coating knee and hip implants</p> 	<p><b>MATERIAL TYPES</b></p> <ul style="list-style-type: none"> <li>• Tantalum (Ta)</li> <li>• Niobium (Nb)</li> </ul>  <p><b>SELECT END MARKETS</b></p> <ul style="list-style-type: none"> <li>• Medical</li> <li>• Electronics</li> <li>• Aerospace</li> <li>• Automotive</li> </ul> <p><b>SELECT APPLICATIONS</b></p> <p>High purity tantalum and niobium oxide for capacitors in electronic devices</p>  <p>Tantalum and niobium carbides as an additive for specialty hard metal cutting tools</p> 



# Kymera International

*Creating innovation and value in each and every particle we produce*

- Premiere Producer of Advanced Materials
- Global production and innovation capabilities
- Backed by Pallidum Equity Partners of New York



**SCM Metal Products, Inc.**





# Kymera Global Manufacturing Locations

## **U.S.**

Research Triangle Park, NC  
Orangeburg, SC  
Robesonia, PA  
Union, NJ  
Croydon, PA  
Detroit, MI

## **Australia**

George Town, Tasmania

## **Austria**

Ranshofen

## **Bahrain**

Manama

## **China**

Suzhou

## **Germany**

Esslingen  
Velden

## **Slovenia**

Kranj





# Kymera History & Key Milestones

1876-Today

## SCM Metal Products, Inc.

**1967**

SCM Metal Products is formed by merger of a powdered metals business that started in 1930 and Glidden Metals, a company with two facilities

**2003-2004**

The company is acquired by Höganäs AB in 2003 and Gibraltar Industries in 2004



**1980**

Kymera's current headquarters in Research Triangle Park, NC is constructed

**1876**

Ecka Granules is formed as a gold leaf producer in Germany



**2010**

The company acquires ACuPowder and Ecka Granules, which are all combined into a single platform

**2009**

SCM acquires the Brazing Alloys Division from Tricon Industries

**2008**

SCM Metal Products is acquired by Platinum Equity



**2018**

Kymera is acquired by Palladium Equity Partners



**2020**

Kymera acquires Innobraz, adding a European manufacturing facility to enhance its specialty copper-based brazing paste portfolio

**2019**

The company acquires 5N's antimony powder assets

**2017**

The combined platform is rebranded as Kymera International



**2020**

Kymera acquires Reading Alloys, a global leader in the production of vanadium and other master alloys for the aerospace industry as well as titanium powders for the medical industry



**ReadingAlloys**  
advanced engineered materials



**2021**

Kymera acquires Telex Metals, a leading processor and refiner of specialty tantalum products, as a key growth platform in megatrend end markets.

**2022**

Kymera acquires AmeriT<sub>i</sub> Manufacturing, a specialty processor of titanium scrap material into value-added products







# Major Product Families

Aluminum Powders

Copper Powders

Bronze & Brass Powders

Titanium Powders

Ferro Titanium

V, Mo, Nb Master Alloys

Tantalum Solids, Oxides, Carbides

Advanced Brazing Solutions

Oxide Powders

Infiltration

Coating Solutions

Bi, Sb, Sn, MnS Powders

Aerospace Materials Recycling





# Kymera Particulate Production Methods

Water Atomizing

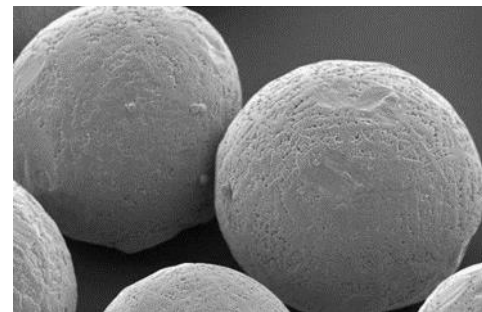
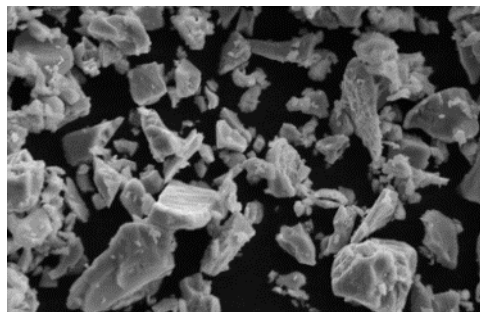
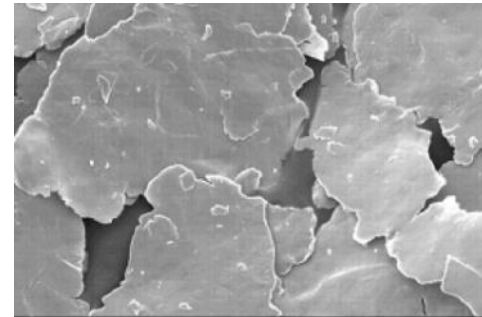
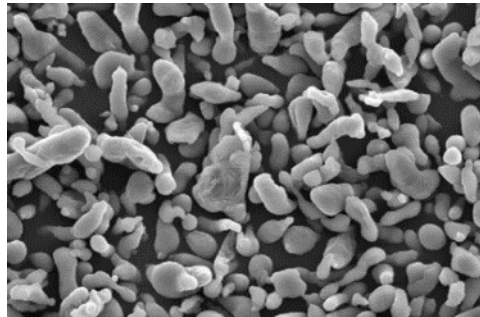
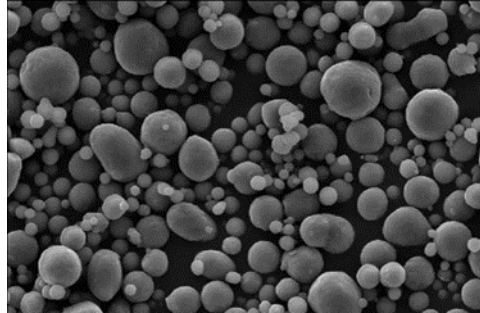
Air Atomizing

Gas Atomizing

Aluminothermic Reduction

Hydride/De-Hydride

Shot Production

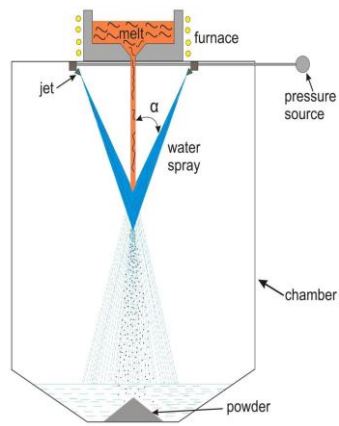




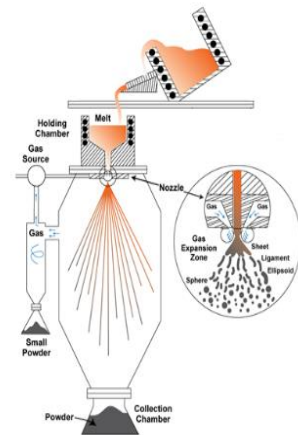


# Powder Production Techniques

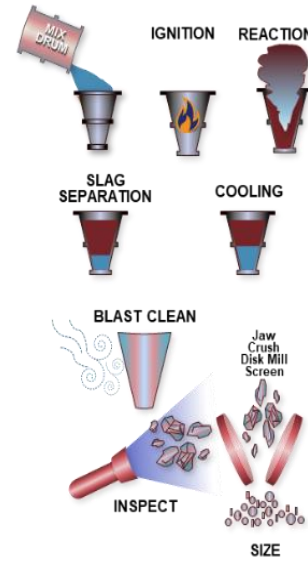
## Water Atomizing



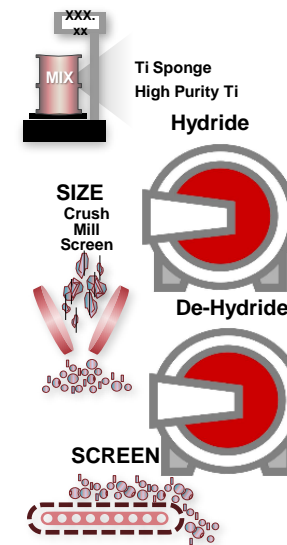
## Gas Atomizing



## Thermite Reaction



## Hydride/De-Hydride





# Applications – Copper & Aluminum Alloys



## Press-Ready Premix Bronze Powders

Self-Lubricating Bearings and Sintered Bronze Parts



## ALUMIX® Powders

Aluminum Structural Parts  
Automotive and non-Automotive



## Copper & Copper Alloy Powders

Iron Ad-Mix, Structural Parts, Diamond Tools



## Spherical Bronze Powders

Filter Applications



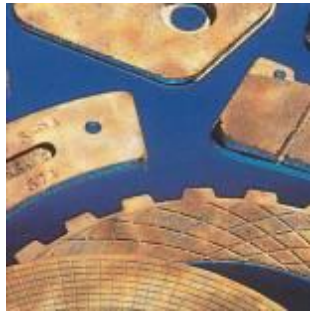
## Brazing Solutions

Automotive, Aerospace and Industrial Applications



## Bearing Metal Ingots

Industrial Plain Bearings



## Copper, Copper Alloy, Zinc Friction Powders

Automotive, Truck and Aero Brake Pads and Clutches



## MicroTronic®, ECKA Sil-Shield® Powders

Electronic Applications





# Applications – Light Metals & Master Alloys



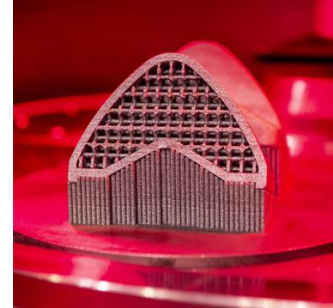
Chemical Industry



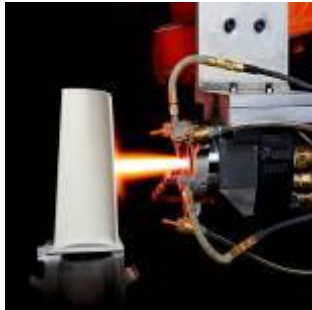
Titanium Powders  
for Medical



Master Alloys for  
Aerospace Titanium



Maerials for Additive  
Manufacturing



Powder For Flame &  
Plasma, Cold Gas  
Spraying, MIM, Metal  
Matrix Composites



Solutions for Building  
& Construction



Metallic Effect  
Pigments



High Performance  
Metallic Coatings



# Applications – Master Alloys & Titanium

V, Mo, Nb Master Alloys for  
Aerospace Titanium Alloys



HDH Titanium Powders for  
Medical Devices and Additive



Al-Cr Master Alloys for  
Thermal Barrier Coatings







# Applications – Ferro Ti & Processed Ti Scrap

Ferro Titanium Lump & Powder for Steel Alloying and Cored Welding Wire



Aerospace Quality Process Titanium Chips & Briquettes for Titanium Melting







# Applications – Tantalum & Niobium Products

- Tantalum Solids used in hard metal and medical applications
- Tantalum Pentoxide used in electronics and hard metal applications
- Tantalum Synthetic Concentrate used in electronics
- Tantalum Carbide & Niobium Carbide used in hard metal applications



Electronics



Hard Metals



Medical



Super Alloy





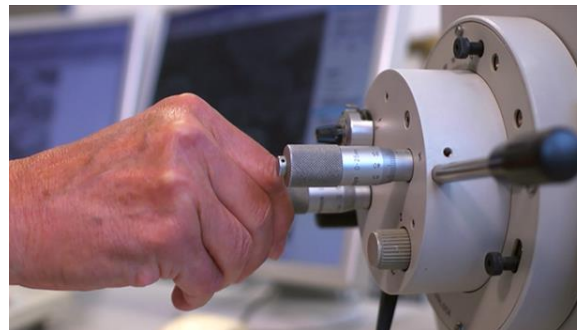
# World Class Innovation Partner

Major Product Innovation Centers in the USA and Germany

Collaborative team of Researchers & Product Engineers

Extensive Non-Ferrous Material & Process Knowhow

- Advanced Forming
- Carriers & Binders
- Engineered Coatings
- Al, Cu, Ti, & Special Alloys
- Fine Powders
- Additive Manufacturing



# Kymera around the World



Germany



Austria



Baharain



China



Australia



North Carolina - USA  
HQ



Pennsylvania - USA



New Jersey - USA





**Kymera**<sup>®</sup>  
INTERNATIONAL  
*Pioneers in Material Science*<sup>™</sup>

*Creating innovation and value in  
each and every particle we produce*