

Manufacturing innovation made reality

The Supersonic Opportunity Additive Manufacturing Company

30 May 2022

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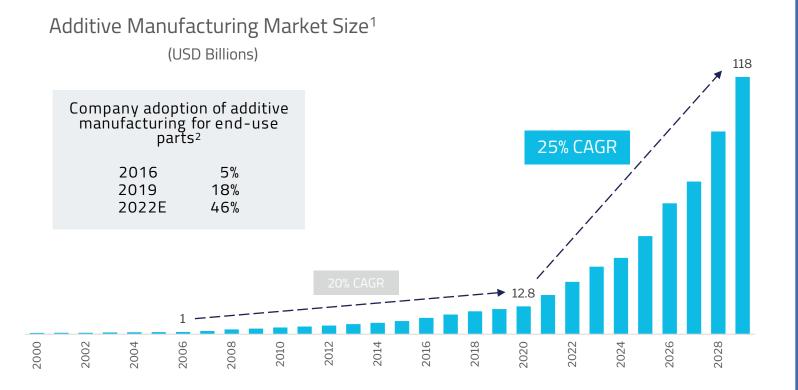
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Titomic Now Positioned To Win

Titomic offers one of the fastest, most scalable, cost competitive and energy efficient additive manufacturing and coating technologies in the world.

1. l	Large and expanding addressable market	 Additive market estimated to grow 11x up to \$146B in the next decade Transition from prototyping to mass production Macro-economic challenges in supply-chain and manufacturing provide strong tailwinds
	World-class leadership team	 Senior executives in both the management team and the board Extensive scientific and engineering backgrounds Diverse and experienced board across primary target industries
	Industry-leading innovative technology	 Superior additive technology for speed, size, sustainability and materials Ability to secure end-to-end supply-chain including metal powders Fast growing technology ready for industrial use in less than two years
4. i	Fast growing customer interest in key markets	 Established footholds in key geographic locations (U.S, Europe, Australia) Fast growing customer demand driven by supply-chain and geopolitical needs Distinct product portfolio supporting growth in multiple, adjacent markets
5	Distinct, repetitive revenue streams	 Joint-venture and subscription models supporting recurring revenue streams Long-term business outlook drives margin improvements as business scales Organic growth funded with capital raise
	Industry consolidation allowing inorganic growth	 Ownership of entire solutions stack made possible by consolidating small, existing players \$80m inorganic revenue identified in three countries

Additive manufacturing to grow over 11x in the next decade



1. Source: Wohlers Report 2020

2. Source: "3D printing: hype or game changer?" Ernst & Young Global Report 2019.

Evolution of the AM Market

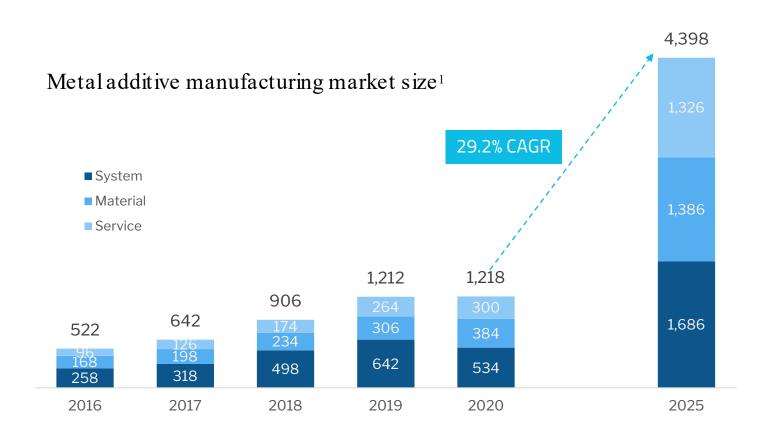
Additive 1.0

- Key players now off-patent, leaving them with minimal differentiation and commoditized technology
- Significant loss in market share to open source and low-cost providers
- Have not participated in market growth due to focus on design and rapid prototyping

Additive 2.0

- Additive 2.0 innovation is being driven by VC- funded, emerging players across printers, materials and parts businesses
- New players are driving advances in speed, accuracy, material variety and build volume/size
- Focus on mass production and end-use parts is driving market growth (certain industries ahead in maturity curve)

Metal driving growth above average of Additive Manufacturing



Growth of AM driven by accelerated adoption in key manufacturing industries

Supply chain pressures are increasing the need for manufacturing at point of use

Additive manufacturing can reduce supply chain complexity

The introduction of new materials offers increased part performance

Cold Spray offers further benefits

High speed manufacturing

Wide range of materials

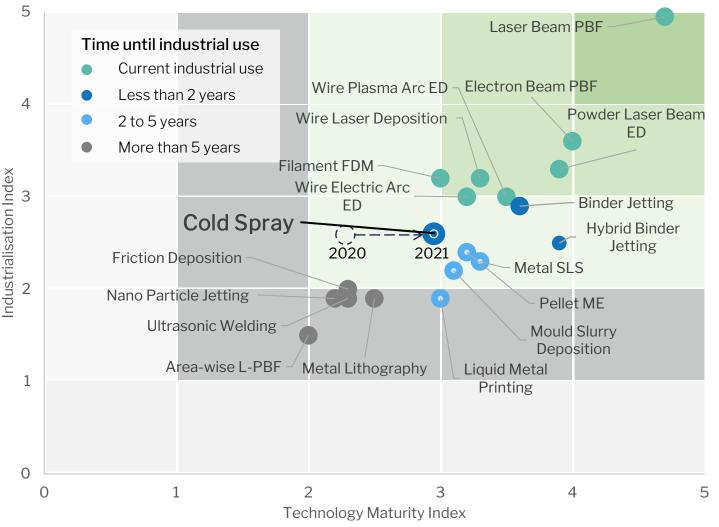
Reduced manufacturing costs

Flexibility of solutions – handheld and portable to robotically operated

Ability to use both spherical and non-spherical powders

Technology maturity approaching industrial use

Metal Additive Manufacturing Maturity Index



Cold Spray continues to mature towards widespread industrial use in AM

Note that this chart is for AM only and not coatings, where Cold Spray is already experiencing widespread industrial use

PBF: Powder Bed Fusion L-PBF: Laser Powder Bed Fusion ED: Energy Deposition SLS: Selective Laser Sintering FDM: Fused Deposition Modelling ME: Material Extrusion



Leadership with proven industry experience



Herbert Koeck Managing Director BD SYSTEMS



Jon Nield Chief Financial Officer



Colin Horman Chief Operating Officer IVECO iSelect



Klaas Rozema General Manager Titomic Europe Dycomet



General Manager Titomic USA



Max Osborne Head of Engineering

BOEING



Neil Matthews Head of Business Development Coating and Repairs



Dominic Parsonson Head of Sales

FUJI XEROX 🔊



Chris Healy Legal Counsel Company Secretary

BondAdviser





Michael Rochford Head of HR





Board directors with global coverage and experience



Humphrey Nolan Non-Executive Chairman

Nolan.UDA









Mira Ricardel Non-Executive Director C (BOEING Chertoff



Dag Stromme Non-Executive Director Morgan Stanley Triton



Jeff Lang Non-Executive Director









Technical Advisory Committee facilitating innovative solution development



Professor Rhys Jones AC

- Previously Research Leader (Aircraft Structures) in the Australian Defence Science and Technology Organisation
- Former Chair Professor of Mechanical Engineering at Monash University
- Internationally renowned for his pioneering work in extending the operational life of aircraft



Prof Ivan Cole

- Currently Enabling Capability Director for Advanced Manufacturing and Fabrication at RMIT
- Previous ly Acting Chief CSIRO Manufacturing and Materials Technology
- Internationally recognised leader in the field of life prediction, prognostics and design and fabrication of engineered structures



Dr Richard Hannink

- Honorary Fellow at CSIRO Manufacturing
- Member of the Victorian Committee of the Australian Academy of Technology and Engineering
- Extensive expertise in characterising microstructure-property relationships of metals and their relationship to industrial applications and performance



Professor Raman Singh

- Professor at Monash University in the Department of Mechanical and Aerospace Engineering
- Primary research expertise is in corrosion and corrosion mitigation of steels and light alloys



Dr Airlie Chapman

- PhD degree from the William E. Boeing Aeronautics and Astronautics Department at the University of Washington
- Lecturer in the Department of Mechanical Engineering at the University of Melbourne
- Research across multiple disciplines with applications to robotics and aerospace systems



Steve Georgiadis

- Aeronautical Engineer with MBA in Technology Entrepreneurship
- Expert in structural analysis methods for aerospace applications
- 34 years experience at Boeing working on new materials architectures and analysis techniques for military and commercial programs



Professor Emad Gad

- Dean of Engineering, Swinburne University of Technology
- Extensive experience in structural dynamics, structural connections, experimental techniques and finite element modelling



Taking our technology to the world – Global footprint



We're on track to expand across Australia, Europe, US and beyond.



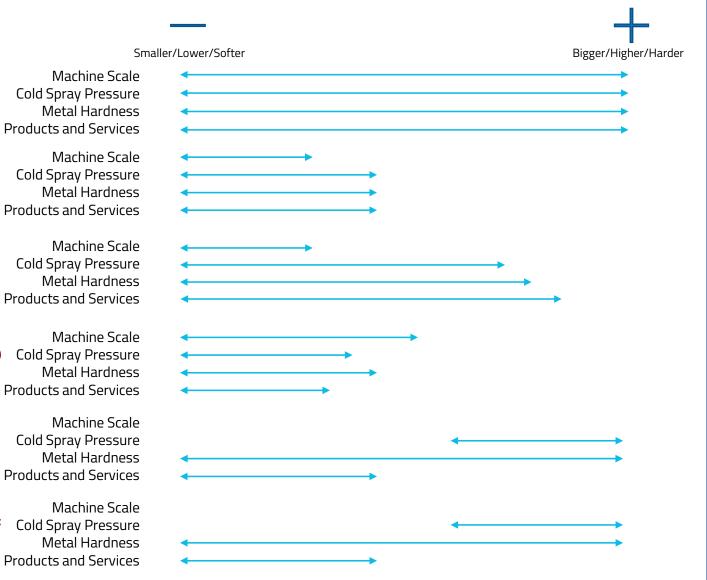
Widest Range of Products & Solutions

TITOMIC

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SDEERD

PLASMA



Titomic is the only Cold Spray company offering:

- Low to high pressure Cold Spray
- Soft to hard metals
- Small to large scale machines
- Products and services
 - Machines
 - Joint Ventures
 - Workflow Solutions
 - Business Development
 - Consumables and Servicing
 - Reseller Network



Existing diverse and customisable machine portfolio



TKF 9000

- High pressure Cold Spray additive manufacturing and coating
- Demonstration of Titomic's ability to engineer and construct bespoke AM systems
- Build volume of 40.5m³
- Deployed in the Titomic Melbourne
 Production Bureau



TKF 1000

- High pressure Cold Spray additive manufacturing and coating
- Designed for prototyping and low volume production tasks
- Build volume of 0.75m³
- 1st gen system operating at Titomic Melbourne Bureau
- 2nd gen system under construction for TWI (UK)





ISB Series

- Low pressure Cold Spray coating
- Robotic or linear coating system
- Automated loading and unloading of parts
- Utilises D523 core cold spray system
- Ideal for R&D deployment or as a base for customised automated coating systems

- Low pressure Cold Spray coating
- Modular portable repair system
- Designed for robotic or manual repair and coatings

• Deployable for in-field repairs



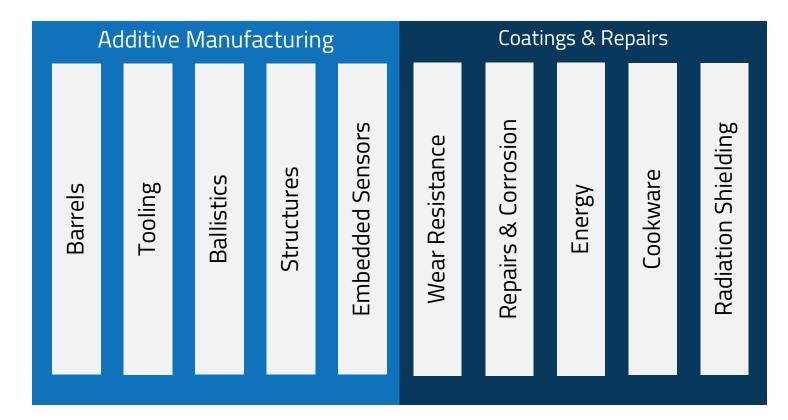


Five distinct fast growing revenue streams

1. Machine Sales	1. Machine Sales 2. Joint Ventures		4. Application Development	5. Resellers	
Broad range of machine solutions • TKF 1000 • TKF Custom • ISB Series • D Series	 Building industry capability for manufacturing Fast access to existing markets 	 Automated solutions to maximise uptime Improved manufacturing productivity and efficiencies Development, prototyping and testing for strategic application pillars 		Territory Coverage • India • Middle East	
<u>-</u>	Service, Maintenance, I	Materials (powders), Co	onsumables, Consulting	g	
 TWI D&C Coating Lufthansa Flohe 	 Repkon JV Nèos JV 	VetropackGallo GlassBrauntell	 Boeing Fleet Space Thales Royal Australian Navy Airbus Inovor BAE Systems Triton 	Shree Rapid	

Strategic Application Pillars

Disciplined and focussed execution



• Narrowed from 167 individual applications

• Focussed on 5 AM and 6 coating application categories

ADDITIVE MANUFACTURING

Barrels Tooling Ballistics Structures Embedded Sensors

COATINGS & REPAIRS

Wear Resistance Repairs Corrosion Energy Cookware Radiation Shielding



Targeting growing markets

Market Sizes and Estimated Revenues

Additive Manufacturing								
ļ	Application	Estimated Market	Target Revenue to FY27					
	Barrels	\$16.9b	\$50m*					
	Tooling Faceplates	\$700m	\$60m*					
\bigcirc	Ballistics	\$24.8b	\$15m					
	Structures	\$7.0b	\$49m					
	Embedded Sensors	\$1.0b	\$18m					

* Revenues in joint ventures. This revenue will not be reported by Titomic, rather dividends will be returned	
from net profits	

Repair and Coatings								
	Application	Estimated Market	Target Revenue to FY27					
Ę	Wear Resistance	\$23.6b	\$36m (glass)					
and the second s	Repairs & Corrosion	\$15b	\$68m					
*	Energy	\$14.1b	\$15m					
P	Cookware	\$2.5b	\$15m					
	Radiation Shielding	\$5.0b	\$11m#					

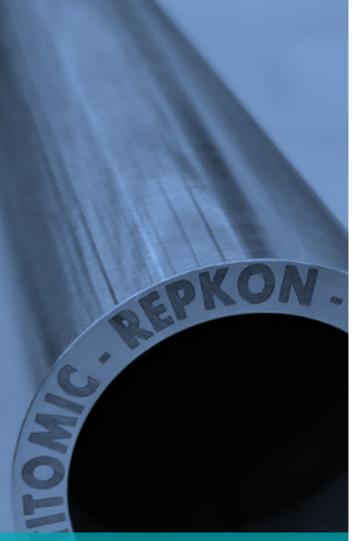
[#] Radiation Shielding may not generate a large amount of revenue, but opens the door to a number of exciting applications in the space industry. Additionally, minimal investment is required to enter the market as technical solution development is completed.



Titomic now kicking goals

Great progress made in last 12 months

Category	Application	Prior to FY2022	FY2022		FY2023	FY2024	FY2025	FY2026	FY2027
ΩŐ	Derrele	Validate Technology							
	Barrels		JV Agreement with Repkon	JV Setup					
urir	Tooling	Validate Technology	JV Agreement with other p	partners					
Additive Manufacturing	Tooling		JV Agreement with Neos	JV Setup					
nuf	Ballistics	Initial Testing		MIL 46077G					
M M S	Danistics		STANAG Lv13	STANAG Lvl2					
tive	Structures	Develop TKF Systems	Further sales of T	KF 1000s					
ddi	Structures		Sale of TKF 1000 to TWI						
A	Embedded Sensors	Prototype Bytepipe	Test with Industry Partner						
		Посотуре вутерире							
	Wear	Develop Glass Mould Coating S	System Installed at Vetropack						
<i>(</i>)	Resistance								
airs	Repairs &		Acquire Dycomet						
Sep	Corrosion		Hire Neil Matthews						
l pu	Energy	Develop Silver coating for bush	bars						
ର ପ	2110189	Develop copper spray for MW	solar panels						
Coating and Repairs	Cookware		Validate Materials						
Ő			Validate solution efficacy						
	Radiation	Award of Space	e Grant						
	Shielding	Demo an	d test Radiation Shielding						



Barrels

Targeting the Defence Industry

Barrels

Titomic enabling high performance barrels

Value Proposition

- Unique manufacturing solution for high performance
 barrels
- The process combines the TKF system and Repkon's patented free flowforming technology
- Enabling better material selection for:
- Improved erosion and corrosion resistance
- Improved strength to weight ratios
- Higher velocity rounds



Repkon's flowforming technology



- Repkon JV agreement being negotiated
 - Demonstrator barrels supplied
 - Qualification of demonstrators underway
- Further JVs to be explored globally

- Revenue will be in the JVs (equity accounted)
 - Likely to commence from late 2023
- Revenues of up to \$50m to FY27







Tooling

Targeting the Aerospace & Defence Industries

Tooling

Titomic enabling a simplified supply chain

Value Proposition

Offers numerous benefits for our partners and customers

- Improved lead times
- Near net shape Minimal post-production and machining
- TKF process makes Titanium tooling a viable option (stronger, thinner, lighter, corrosion resistant)
- Reduced welding, assembly and lead times
- Multi-material solutions, for improved heat distribution
- Ability for embedded sensors, heating and cooling

Progress

- Neos JV agreement being negotiated
 - Demonstrator faceplates supplied
- Further JVs being explored globally (4 additional players already in pipeline)

Market

- Revenue will be in the JVs (equity accounted)
 - Likely to commence from mid 2023
- Revenues of up to \$60m to FY27





Titanium Tooling



Ballistic Protection

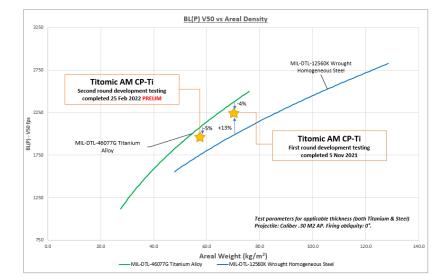
Targeting the Defence Industry

Ballistics

Titomic enabling lighter, monolithic protection

Value Proposition

- Affordable and lightweight titanium armour
- Near net shape manufacturing
- Monolithic structures weldless assembly
- Tailored performance with multi-material architectures
- Weight reduction enables
 - Increased speed, range and space



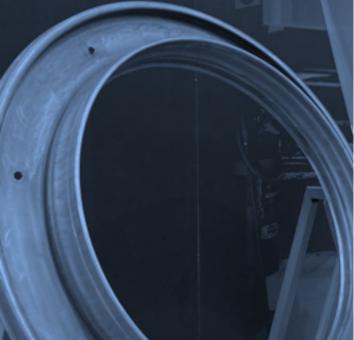
Progress

- STANAG and MIL standard benchmark testing
- Mechanical performance optimisation

- New and upgrade of
 - Armoured vehicles
 - Naval vessels
 - Lightly armoured aircraft/helicopters



Manufacturing made sustaina



Structures

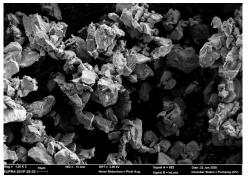
Exploiting Titomic's technology to make titanium manufacturing more wirdespread

Structures

Titomic enabling commoditisation of titanium

Value Proposition

- Affordable titanium structures
- Near net shape manufacturing
- Green Titanium : Mineral to Market
- Low cost HDH titanium powder
- Melt-free manufacturing process
- Energy, Emissions, Environmental benefits



Progress

- Engineering projects underway for technical validation of material and manufacturing processes
- Material development executing mechanical properties program
- Manufacturing development repeatable and robust process
- High value-added applications identified

- High end steel manufacturing
- Existing Titanium manufacturing







Glass Equipment Coatings

Targeting glass manufacturing industries

Wear Resistance – Glass Equipment

Titomic maximising uptime

Value Proposition

- Unique material solutions for functional coatings
- Improved durability
- Increased uptime
- Sustainable solution through increased lifespan

Progress

- Installation of first automated commercial production machine
- Extending material portfolio to expand applications to adjacent use cases

- Glass packaging industry worth \$51b growing at CAGR 4.4%
- Revenue will flow from sales of powder, nozzles, consumables and servicing



Finished Surface

Repaired Surface

Worn Surface Coating and Repair

Targeting Mining, Oil & Gas, Transport and Marine Industries

Repairs & Corrosion

Titomic extending asset life

Value Proposition

- Unique material solutions for repair
- Ability to restore geometries
- Repair in-situ
- Cold solid state repair process no hot work
- Increase of functionality



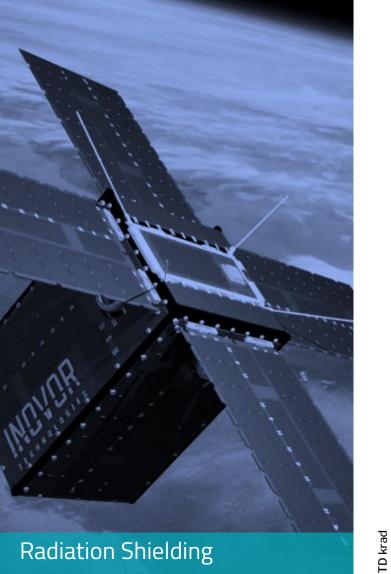


Progress

- Proven process and materials
- Mature solutions platform
- Global sales network with off-the-shelf solution

- Corrosion costs the global economy up to an estimated \$2.5 $trillion \, annually^1$
- The cost of corrosion remediation in Australia is estimated at $\ensuremath{\$78b}\xspace$ annually²





Radiation Shielding

Targeting the space industry

Radiation Shielding

Titomic creating tailored, cost-effective shielding

6.2

Shielded

Value Proposition

- Extending life of satellites
- Mission specific tailored designs

47.9

Unshielded

- Weight efficient shielding
- Cost-effective

60.0

50.0

40.0

30.0

20.0

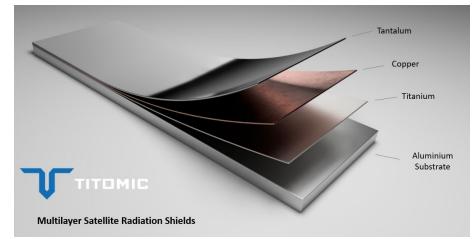
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Progress

- Capability to analyse and model missions
- Design shields for corresponding dose requirements
- Proven manufacturing capability

- Applications across a broad range of satellite platforms
- Medical devices



Titomic is setup for growth

Titomic is generating revenue in every selected segment

Category	Estimated Market Size ¹	Expected revenues to 2027 ²		
Additive Manufacturing	\$50.4b	\$192m		
Coatings & Repairs	\$60.2b	\$145m		
Total	\$110.6 b	\$337m *)		

*) Revenues may be reported in joint ventures. This revenue will not be reported by Titomic, rather dividends will be returned from net profits

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¹Market sizes are based on products of which Titomic will manufacture subcomponents.

• E.g. for barrels the market size represents the entire weapon/grenade launcher. The barrel and coating makes up only a portion of this.

²Some revenues are attributable to JVs

- Barrels (Repkon) and Tooling Faceplates (All)
- In reality these will be reported as a note to the financial statements
- Profits taken as dividends for Titomic (equity accounted)

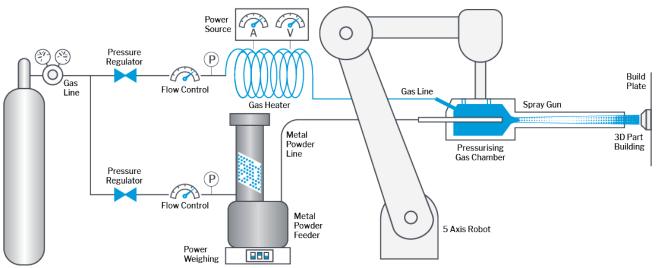
Other Information

Superior speed and size

Titomic Kinetic Fusion (TKF)

- Exclusive rights to commercialise a form of cold spray additive manufacturing developed with CSIRO
- This process, called Titomic Kinetic Fusion (TKF), employs cold spray technology using compressed gas to accelerate metal powder particles at supersonic speed, which bond together to form a layer upon impact

The TKF process



Key attributes of the TKF process

Speed

• Up to 3x faster than other Additive Manufacturing (AM) processes

Size

- Highly Scalable
- Up to 9m x 3m x 1.5m

Sustainable

• Less energy use and material waste

Cost effective

- Ability to use wide range of metal powders
- Cost competitive grade metal powders of dissimilar particle sizes and irregular shapes

Multiple Metals

- Build with almost any metal in a powder form
- Unique ability to combine different materials in a single part



Certifications

Over the last two years Titomic has put substantial resources into achieving a variety of key certifications in preparation for supply to the Aerospace sectors and is ISO27001, ISO9001 and AS9100D certified.



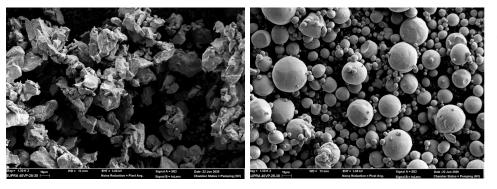


Unique powder supply for lower cost titanium

Cost effective and clean

Our TKF process can use hydride-dehydride (HDH) titanium powders to cut the cost and boost the performance of titanium parts.

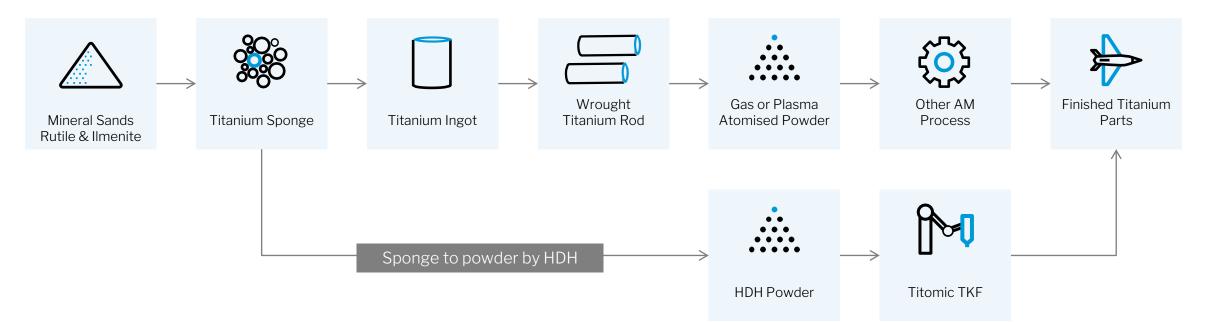
This clean hydrogen technology has low carbon emissions as compared to gas atomised powders and wrought titanium products.



SEM micrographs

Right: Spherical titanium powder

Left: Irregularly shaped HDH titanium powder





Overview of the Cold Spray Industry

		-centerline-		SPEEBD	HERMLE	PLASMA	Impact		
	Country	Canada	USA	Australia	Germany	Japan	Germany	Australia	USA
	Year Established	1957	1989	2014	1938	1980	2010	2017	2013
	Company Type	Private	Private	Private	Public	Private	Private	Public	Private
Fundamentals	No. of Employees	1000*	6	34	1225*	27	22	44	54
uen.	Revenue	N/A	N/A	\$1.37M	€231.4M*	\$10.2M	\$4M	\$2M	N/A
Idar	Funding			\$2.34M				\$48M	
	System Prices	\$100-140K	\$230K	\$300-700K	N/A	\$365-500K	\$280-346K	\$75K-9M	\$350K
ness	System Components	\checkmark	\checkmark	×	×	\checkmark	\checkmark	\checkmark	×
Busine	Turnkey Systems	\checkmark	\checkmark	\checkmark	\checkmark	×	×	\checkmark	\checkmark
	USP	Low cost systems	Low pressure system with ability to create supersonic gas flow	Low-cost systems. Easy to program. Freeform deposition	CNC machine integration. Steam rather than Nitrogen/Helium	High deposition rates, long experience in industry	Industrial quality cold spray equipment	Huge build volumes, industry leading deposition rates, portable solutions	Portable high- pressure CS systems. Ideal for in-field repair

* Company's primary business is not cold spray

TITOMIC

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