

Company Presentation

January 2023



NORSK TITANIUM

We are innovating the future of metal alloy manufacturing



Forging then

High labor and energy input



Forging now

High capital and energy input



Rapid Plasma Deposition® (RPD®)

Disruptive technology

A parts manufacturer with proprietary additive technology



The Perfect Storm

- Global shortage in aerospace grade Titanium
- Increasing production demand
- Recession fears limiting investments in production

Solid platform for growth

- Global leader in additive manufacturing
- Established forged equivalent material spec
- Fully built production facility in New York

Rapid revenue growth

- On-contract with Airbus (1Q 23) and Boeing
- On-contract with US Defense contractor (2Q 23)
- On-contract with ASML supplier

more than **50%**
Material savings

700 MT
Production capacity

USD 150m
2026 Revenue Target

Inserting 3D printed parts in existing industrial supply chains



Energy Intensive Forming Methods

Casting, Forging, or Milled Plate



12 : 1
Raw-material-to-
final-part ratio

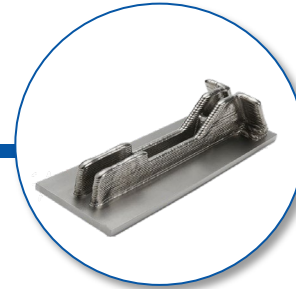


70% Raw Material Reduction

*Standard
Machining*



Additive RPD® Technology



*Near-net-shape
value-added form*

4 : 1
Raw-material-to-
-final-part ratio



700 MT annual
capacity ready
for production

Plattsburgh, New York, USA

- World's largest additive manufacturing facility, focused on manufacturing customer parts
- 620 MT annual capacity across 31 RPD® machines
- Separate qualification facility for Defense

Eggemoen, Ringerike, Norway

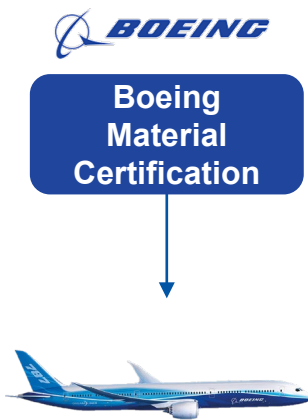
- Focused on research and development of new technologies for additive manufacturing
- 80 MT annual capacity across 4 RPD® machines
- Own metallurgy lab

Our 3D printed Titanium parts already flying

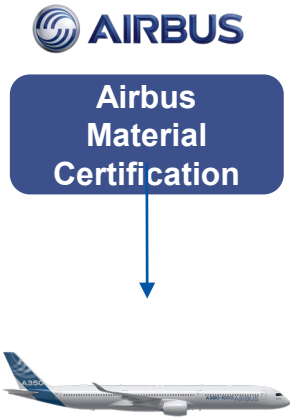


Established in Commercial Aerospace

Aerospace Materials Specification (AMS)
7004 / 7005

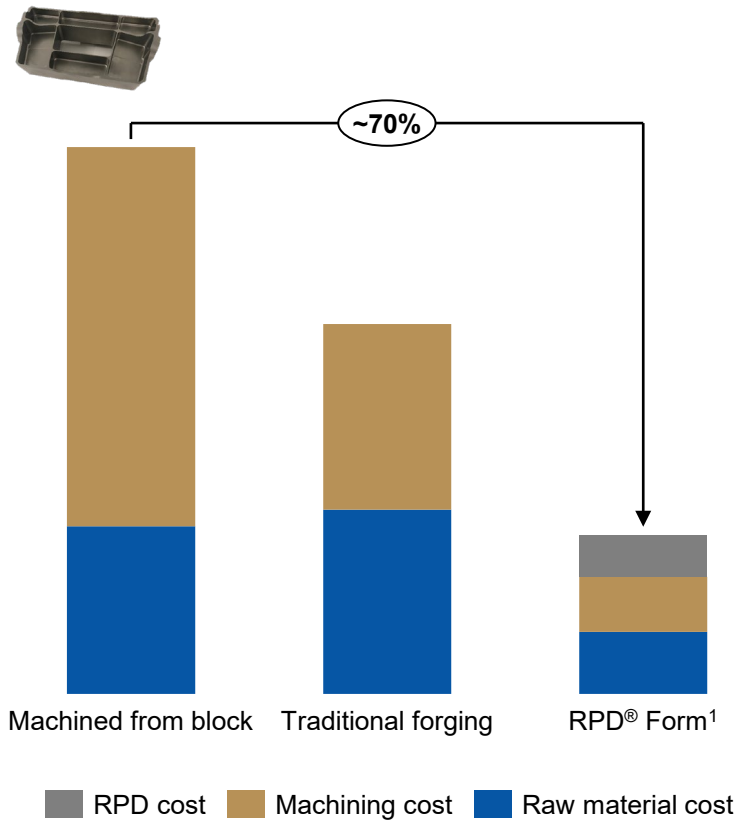


Boeing 787

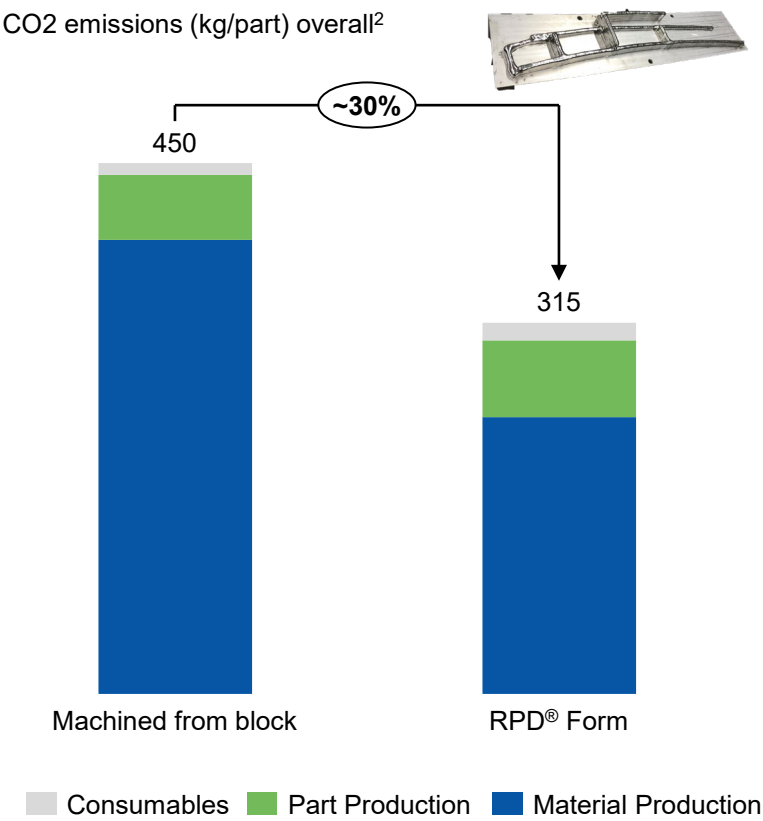


Airbus 350

Cost reduction - illustration



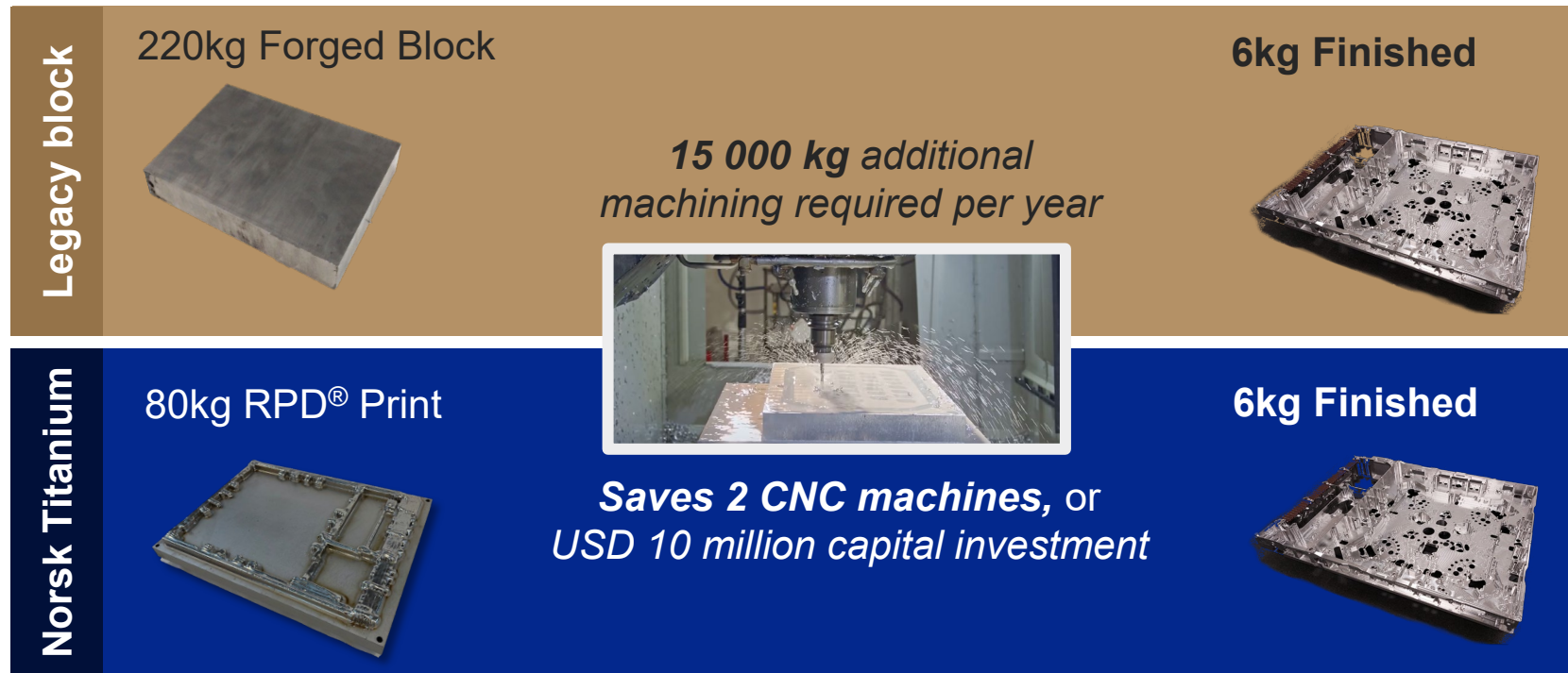
Environmental impact reduction



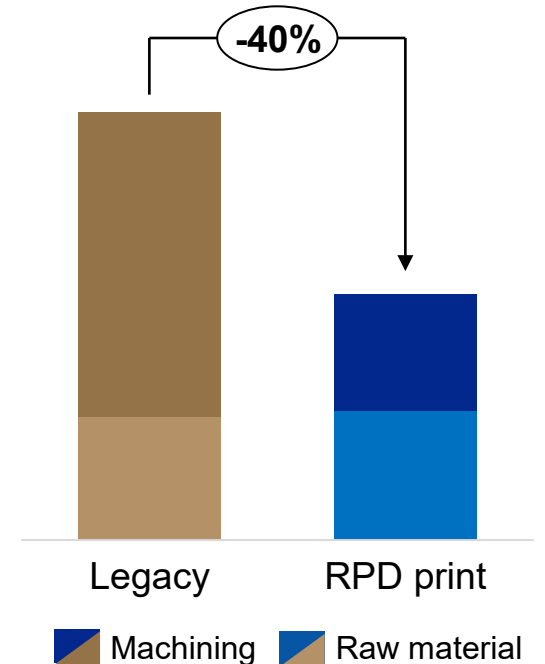
In-Production: ASML Carrier Tray



Less CNC machinery required



Less cost '000 USD

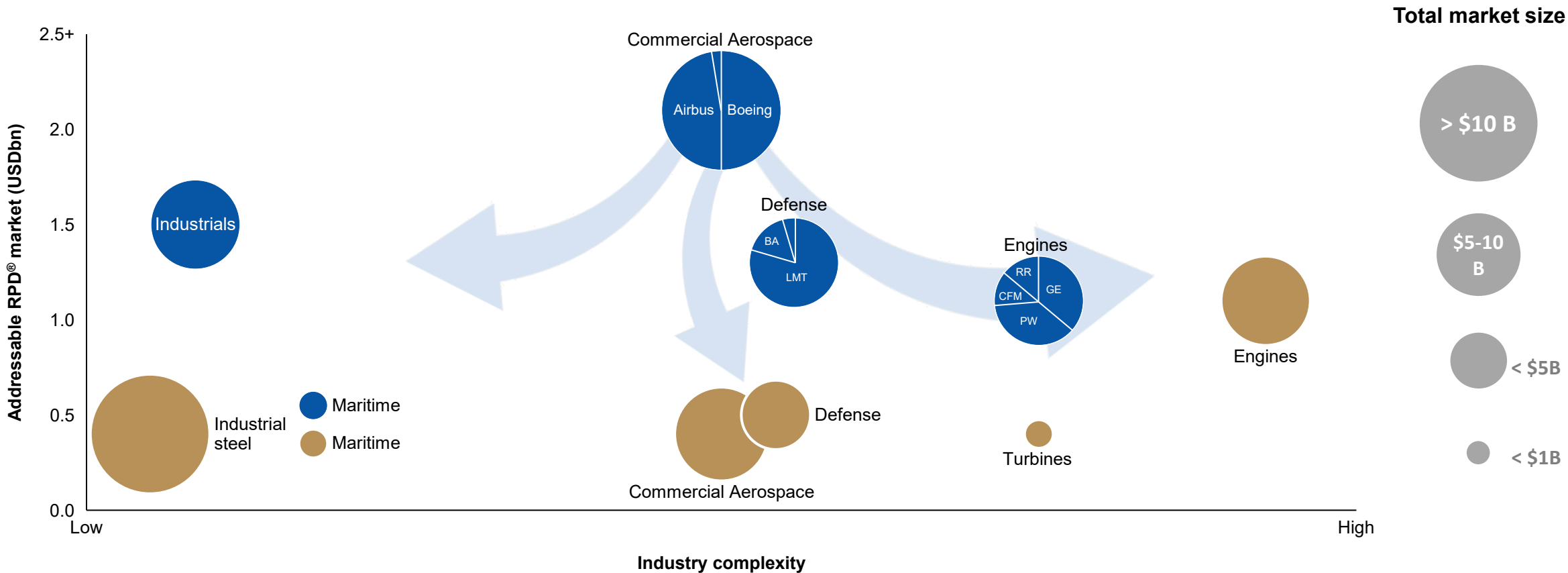


Commercial aerospace enables us to go anywhere



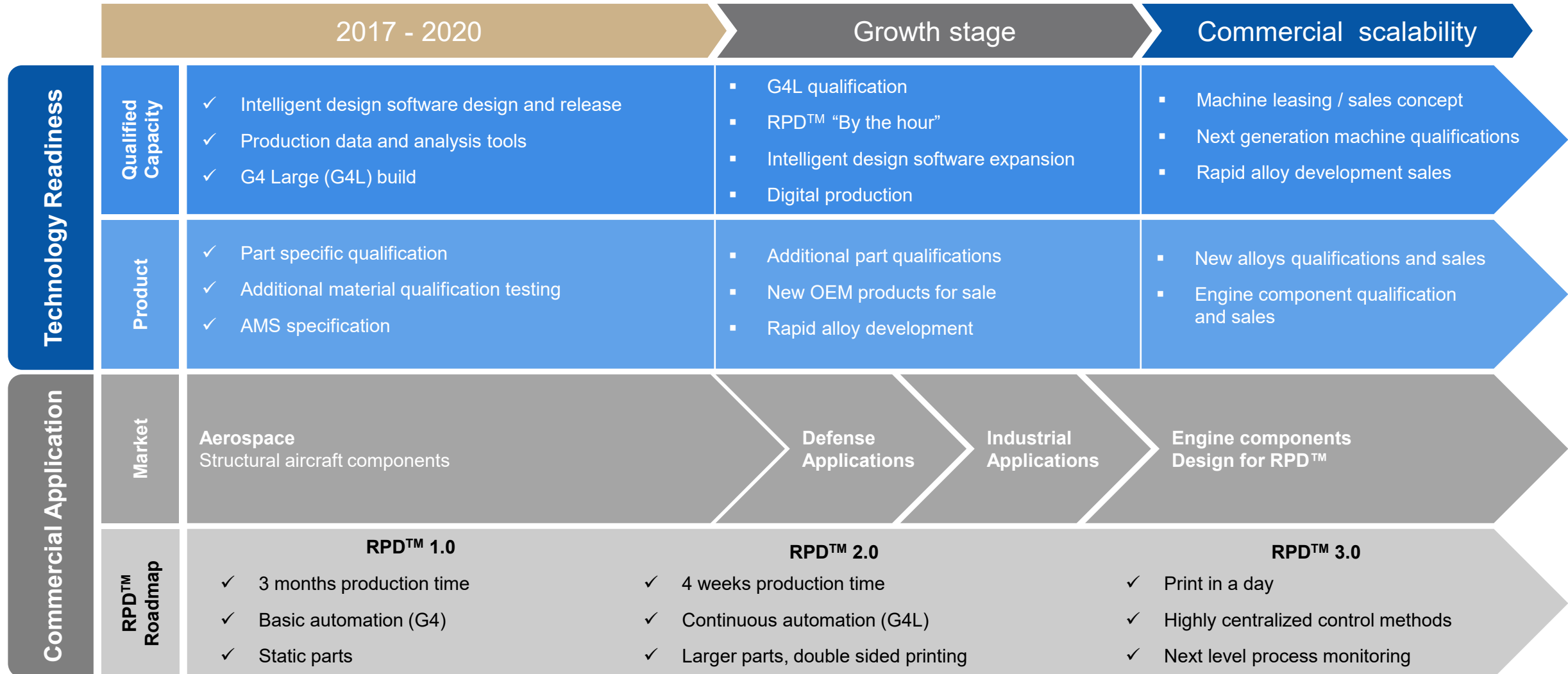
Large potential market for 3D printed parts

● Ti6-4, Titanium Alloys ● Other Alloys



Source: Management estimates
1) Defense Ti6-4: LMT=Lockheed Martin, BA=Boeing
2) Engines Ti6-4: GE=General Electric, RR=Rolls-Royce, CFM= CFM International, PW=Pratt & Whitney

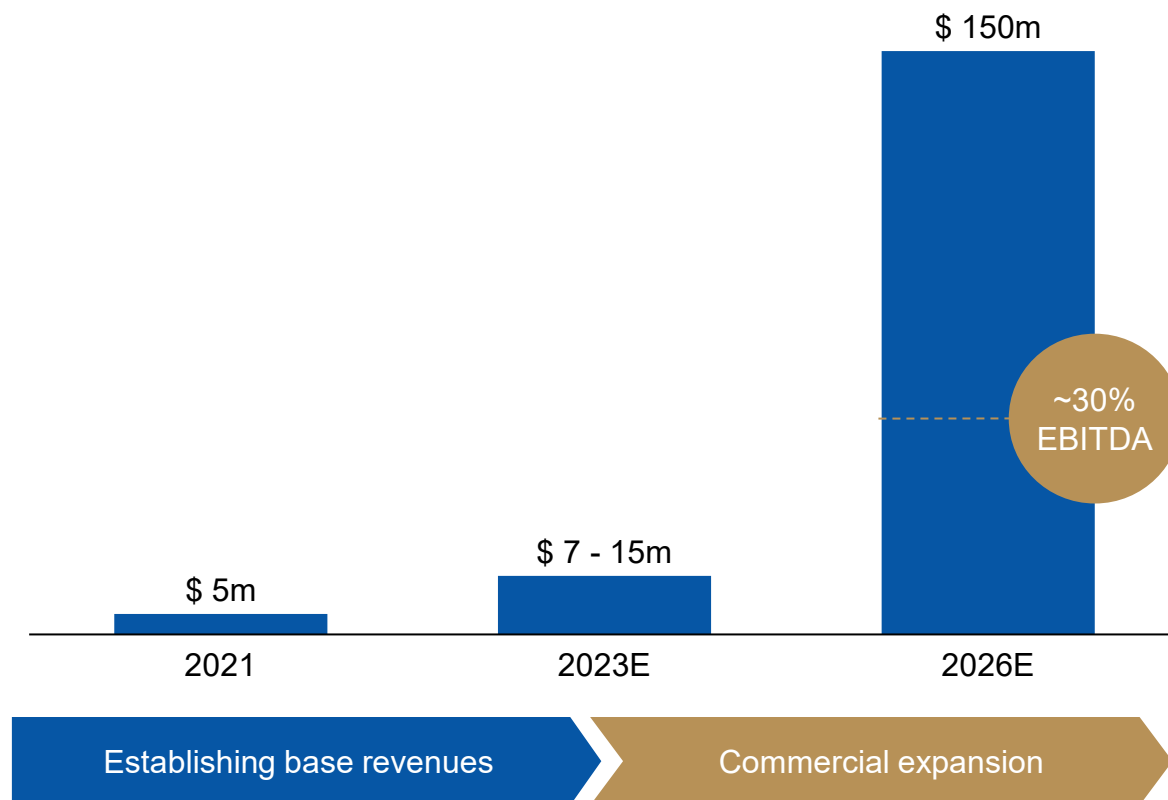
Well defined and structured path to diverse growth



Progressing towards long-term targets



Long-term revenue targets



Revenue expansion pending product qualifications, contract awards and deliveries of produced parts

- Technology adoption in 2023
 - Revenue from programs currently in development and qualification
- Mass additive manufacturing by 2026
 - Expansion within Commercial Aerospace, Defense and Industrial industries
 - Utilizing only ~50% of current capacity

Establishing a long-term target EBITDA margin of ~30% beyond commercialization

Key stakeholders have invested USD 390m over 15 years



Capitalization Table	#	Shareholders	Investor Type	Current Ownership	Investment (in \$ millions)
	1	Norsk Titanium Cayman Limited	Mgmt. / Board	<div><div></div></div> 37.8%	
	2	Scatec Innovation AS	Mgmt. / Board	<div><div></div></div> 25.0%	
	3	Triangle Holdings L.P. (Fortress)	Mgmt. / Board	<div><div></div></div> 13.4%	
	4	Disruptive Innovation Fund, L.P. (Rose Park)	Mgmt. / Board	<div><div></div></div> 6.8%	
	5	FERD AS	Institutional	<div><div></div></div> 3.8%	
	6	MP Pensjon PK	Institutional	<div><div></div></div> 2.0%	
	7	Avkast Invest AS	Institutional	<div><div></div></div> 0.9%	
	8	Sauar Invest AS	Institutional	<div><div></div></div> 0.7%	
	Total of top-8 shareholders			<div><div></div></div> 90%	
	Remaining Shareholders			<div><div></div></div> 10%	
	Total			<div><div></div></div> 100%	\$265
Additional Investment	#	Investor	Investor Type	Market Value	Investment Value (in \$ millions)
	1	New York State	State Agency	n.a.	\$125
Total Investment					Total Investment (in \$ millions)
					\$390



An additive process designed for our greener future

Each RPD machine saves 2 GWh in energy consumption representing 1,100 MT of CO₂ emissions annually¹

Less Material

RPD® process delivers a near net shape preform with significant raw material savings.

Efficient Forming

The Merke IV® additive machine uses less energy to produce the desired shape

Less Machining

Near net shape preforms require less machining time, reducing energy consumption, coolant use, and tool wear

1) Source: <https://www.eia.gov/tools/faqs/faq.php?id=74&t=11>

Norsk Titanium by the numbers



USD 400m
invested



USD 70m
market cap.



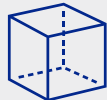
100+
employees



35 machines
experience



US & Norway
locations



700 tons
capacity



15 years
experience



3 markets
presence

Norsk Titanium's additive manufacturing technology is a game changer for manufacturers

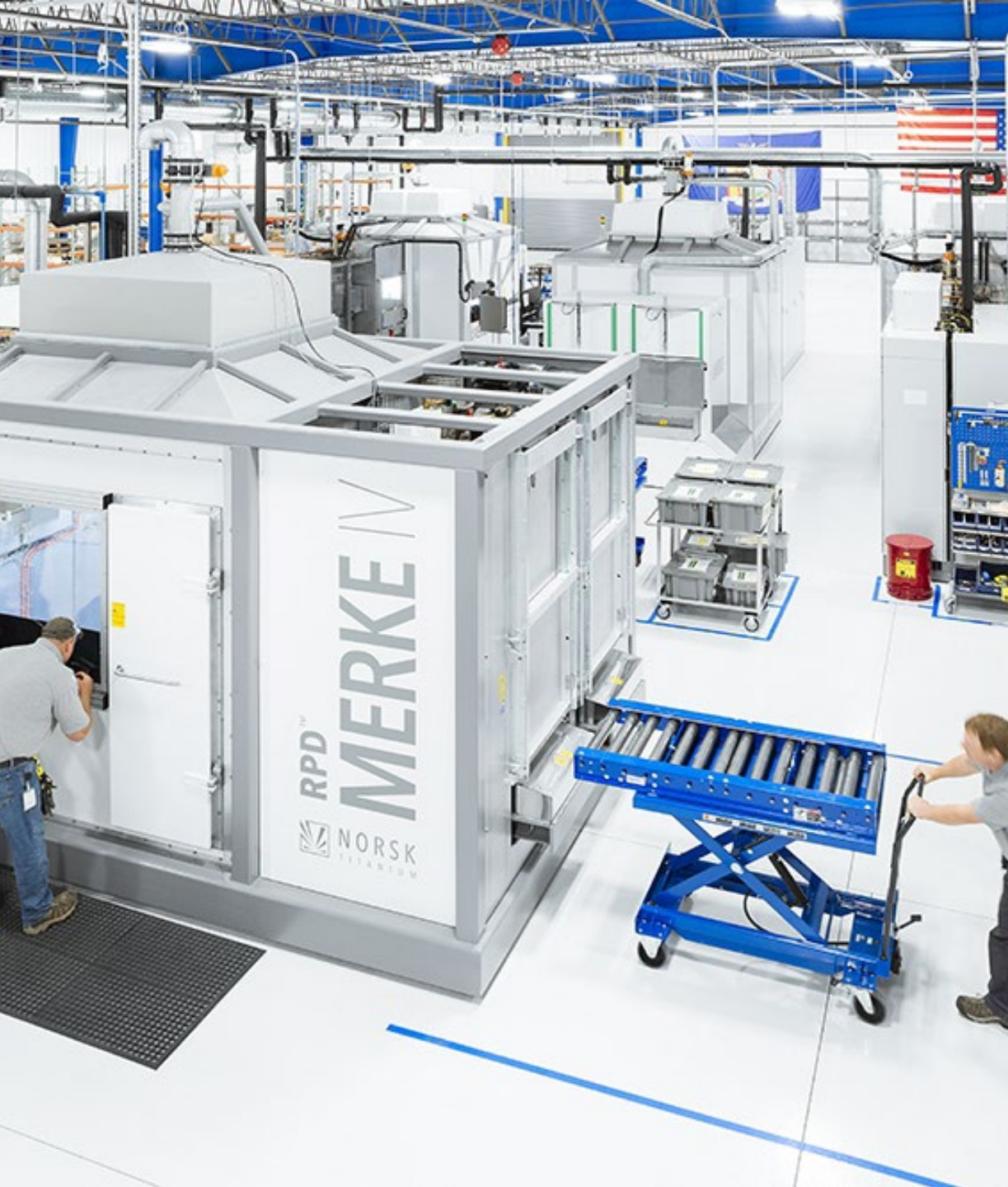


AIRBUS



ASML



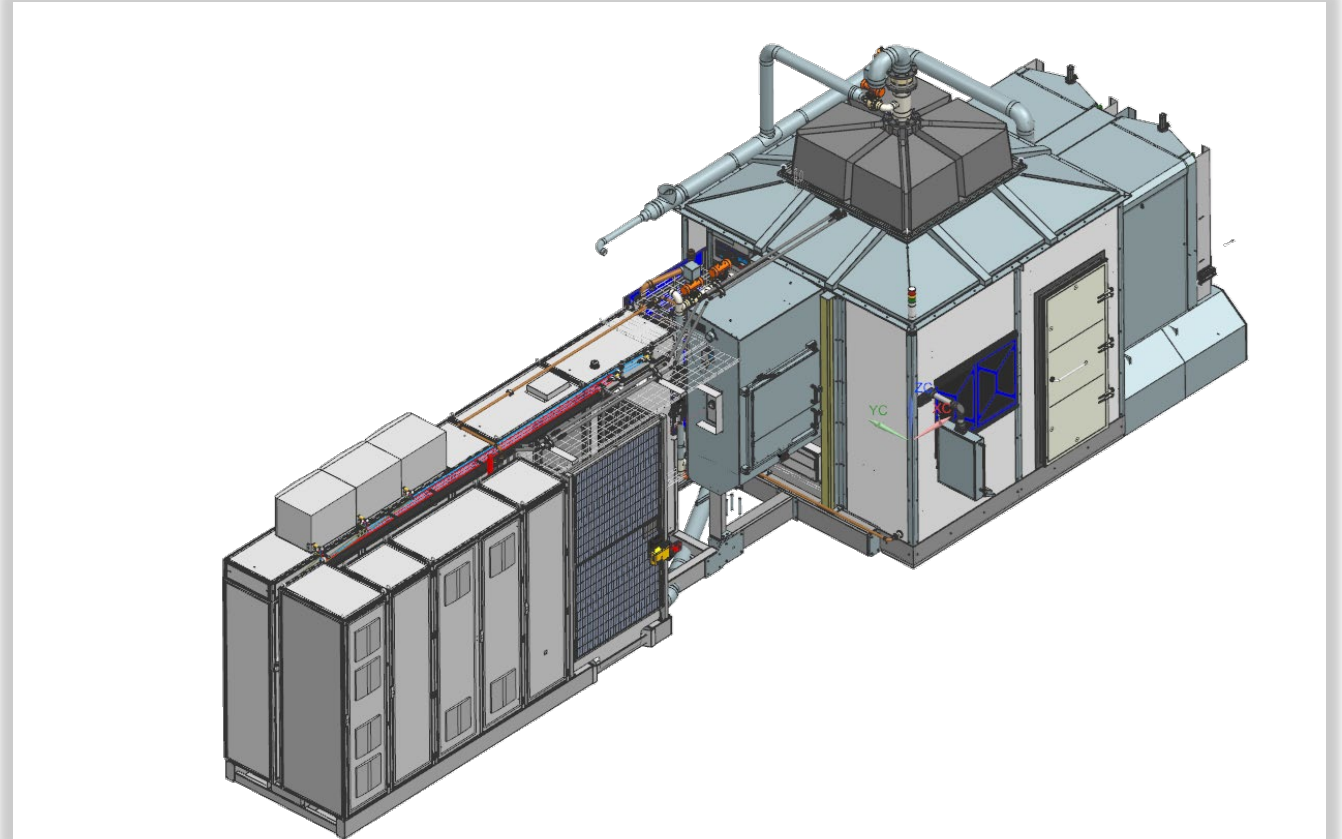
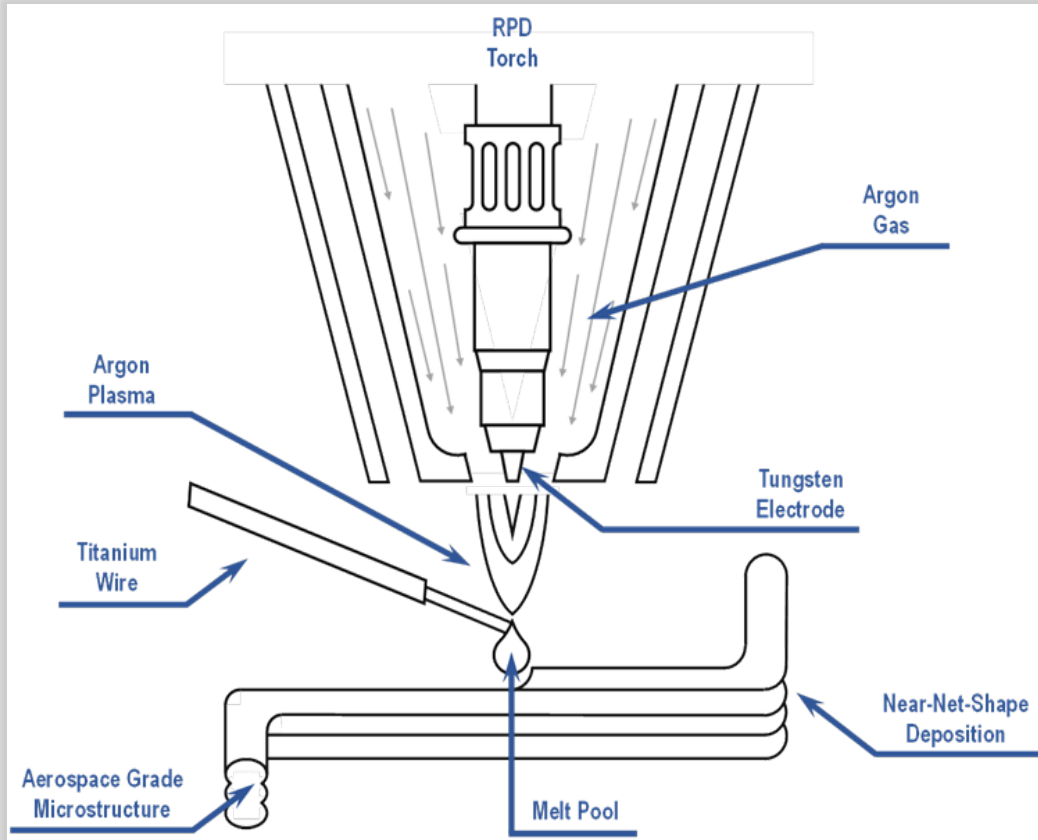


Appendix

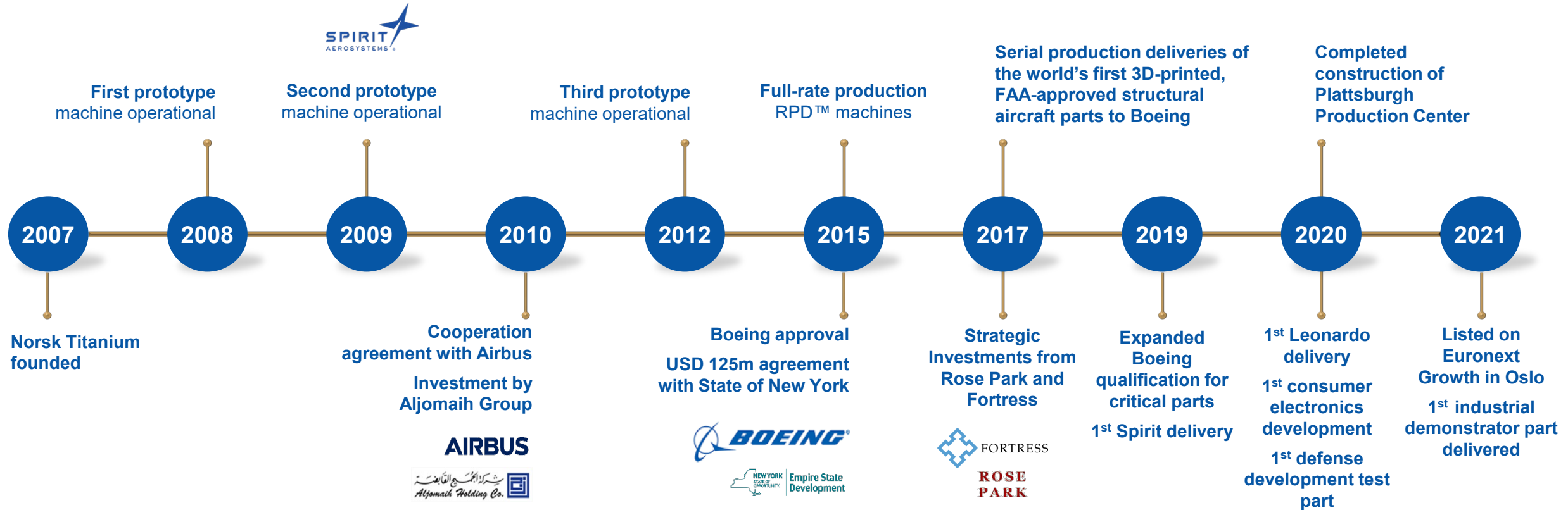
Norsk's Rapid Plasma Deposition (RPD[®]) technology



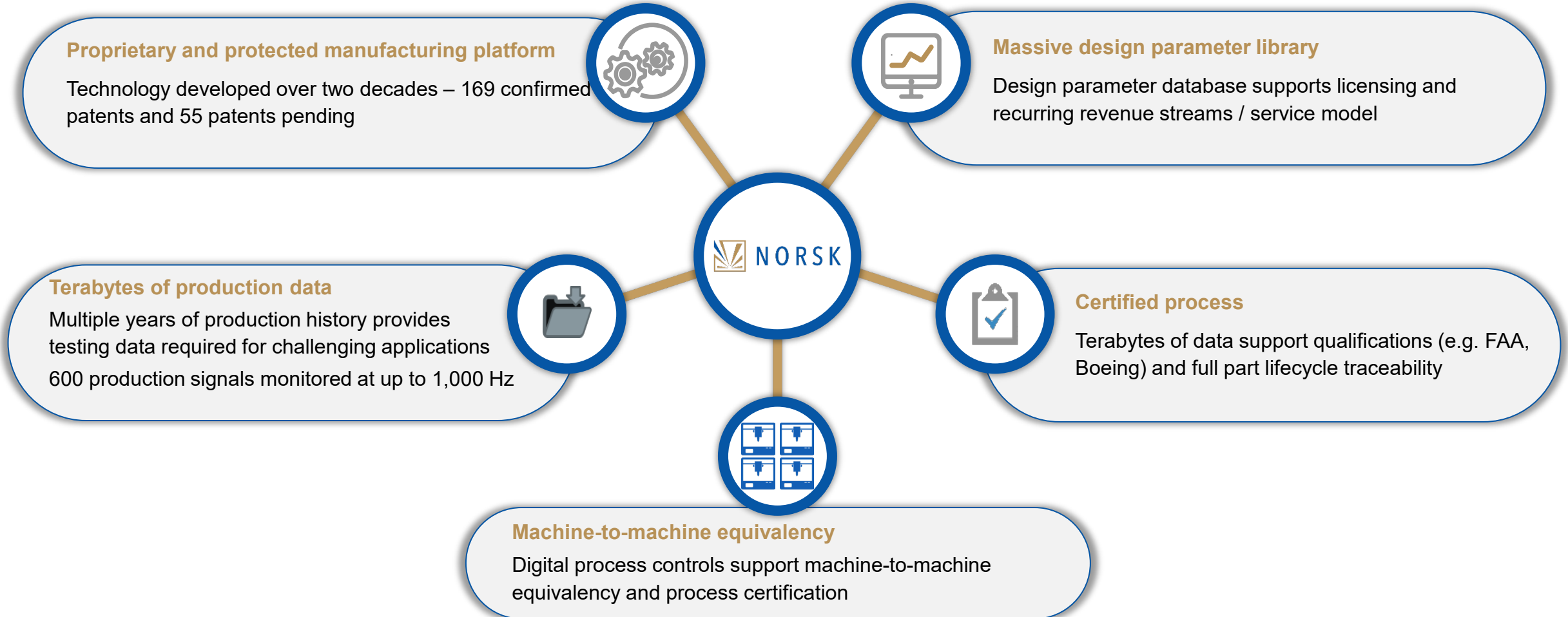
Norsk's RPD[®] process



Matured RPD[®] technology setting industry standards



Technology platform enabled by a digital backbone



Global technology leader additive manufacturing for metals

NORSK
TITANIUM

Material specifications

Superior metallurgy published by SAE¹ and AMS²



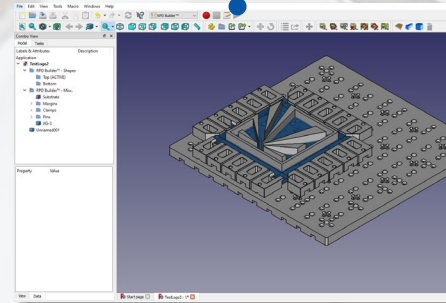
State-of-the-art machines

Strong global patent portfolio
Machine-to-machine qualification



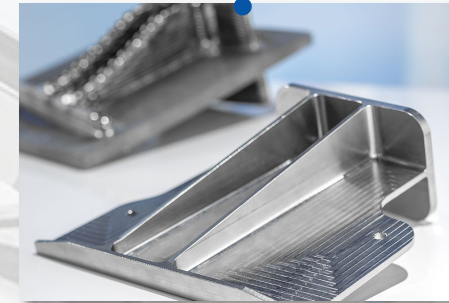
Innovative RPD Builder™

Software Development Kit enabling customers to independently design parts



Data platform driving automation

Quality assurance and distributed production



Driving Industry 4.0

Scale to produce cheaper parts in custom batches

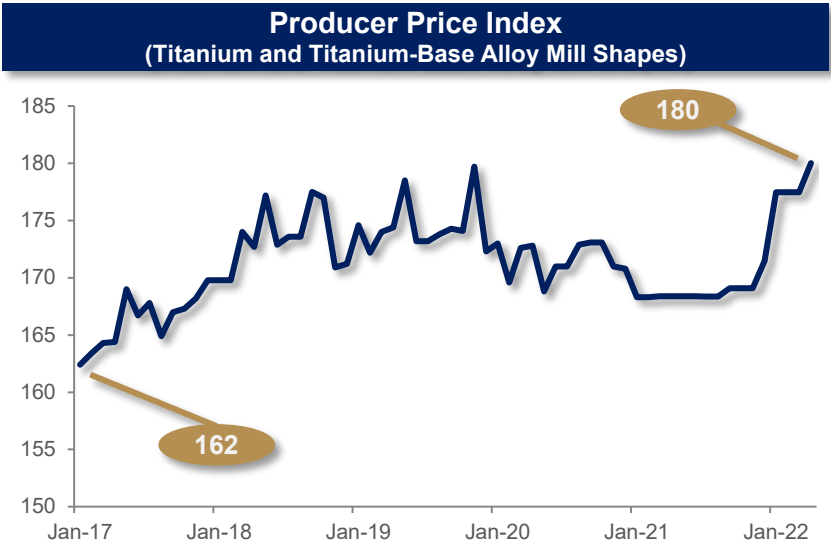
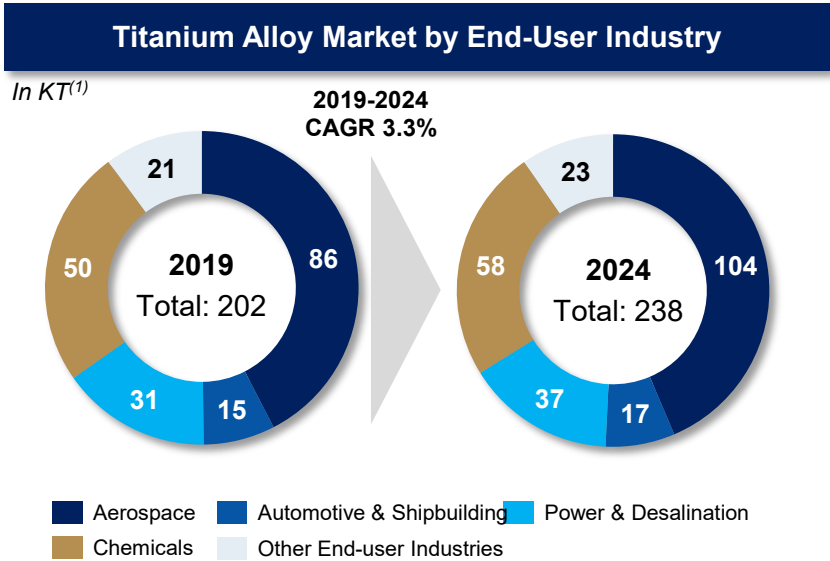
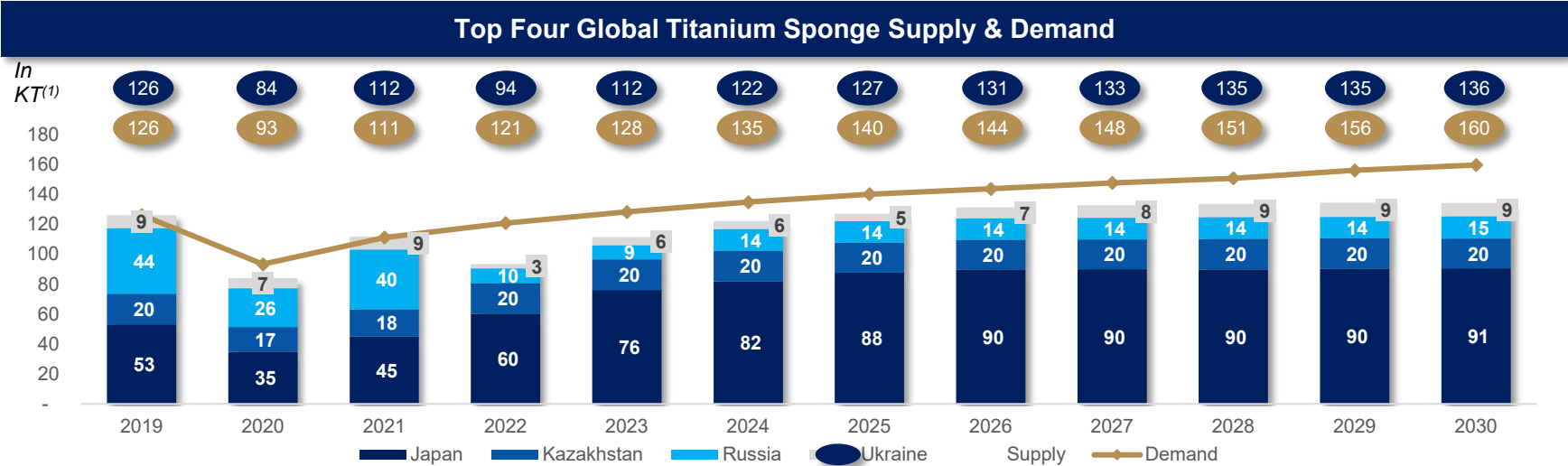


1) Society of Automotive Engineers (SAE)
2) Aerospace Material Specification (AMS)

RPD[®] technology helps solve titanium supply challenges



- Select Commentary
- Use of titanium mineral concentrates is tied to production of titanium dioxide pigments that are primarily used in paint, paper, and plastics
 - Global titanium sponge primarily supplied by select key players based in Ukraine, Russia, Kazakhstan, and Japan
 - Russia / Ukraine conflict expected to cause supply shortage between 2022 and 2030
 - Both supply shortage and titanium price volatility speaks to the need for efficiency in titanium use
 - 3x increase use of titanium in production of Boeing aircrafts over the past 40 years



Norsk's technology is certified for production and has set industry standard for 3D printing of metals



Industry material standard

Boeing Material



*"We are always looking at the latest technologies to drive cost reduction, performance, and value to our customers, and **Norsk Titanium's RPD™** capability fits the bill in a new and creative way."*

John Byrne, VP Airplane Materials & Structures,
Boeing

Airbus Material



Emerging
Technologies Task
Group, Co-Chair
Materials & Machines



Aviation Week
2018 Award Winner



AMS
7004 & 7005



Additive Material
Specification
Development
Committee



American Welding Society















Standards Worldwide

Frost & Sullivan
2017 European
Innovation Award



RPD[®] is benefits versus other technologies



Rapid Plasma Deposition (4 : 1)	<p>Low-cost titanium wire and plate feedstock</p>  <p>4 kg raw input</p> <p>RPD™ printer yields near net shape with less CNC machines required</p>  <p>Batch of finished parts completed</p>  <p>1 kg final part</p>	<ul style="list-style-type: none"> ✓ Homogenous material quality ✓ High-rate serial production (5-10kg/hr) ✓ Lower capital and tooling cost ✓ Just-in time manufacturing ✓ Mass customization ✓ 30+% lower carbon footprint
Traditional metal 3D printing (1.5 : 1)	<p>Most 3D printers start with expensive powder (\$150-600/kg)</p>  <p>1.5 kg raw material input</p> <p>Slow rate printers sufficient only for rapid prototyping</p>  <p>Slow rate print</p> <p>Printer outputs a finished part</p>  <p>1 kg final part</p>	<ul style="list-style-type: none"> ✓ Complex finished part ✓ Smaller carbon footprint ✗ No serial production ✗ Inconsistent material quality ✗ Slow print rate (0.1-1.0 kg/hr) ✗ Lack industrial scale
Traditional titanium forging (12 : 1)	<p>Forging starts with a block</p>  <p>12 kg raw input</p> <p>Forged using a >\$95m press and CNC machines removing material</p>  <p>Only 8% of the block remains in the finished part</p>  <p>1 kg final part</p>	<ul style="list-style-type: none"> ✓ Homogenous material quality ✓ Scalable serial production ✗ Extremely high capital and tooling cost ✗ Inflexible, long lead times ✗ Costly material waste ✗ Significant carbon footprint
Traditional titanium machining (12 : 1)	<p>Machining starts with Ti block</p>  <p>12 kg raw input</p> <p>Large number of CNC machines used to remove material</p>  <p>Only 8% of the block remains in the finished part</p>  <p>1 kg final part</p>	<ul style="list-style-type: none"> ✓ Homogenous material quality ✗ Slow, long lead times ✗ Costly material waste ✗ Significant carbon footprint ✗ High capital and tooling cost

State-of-the-art facilities located in Plattsburgh, NY State



Plattsburgh Production Center (PPC)



Plattsburgh Development and Qualification Center (PDQC)



Partnerships with industry-leading companies and institutions



Relationships

Development Partners

Parts Supply Chain Partners

Agreement with New York State will support \$300M+ of Norsk's manufacturing revenues



NY State relationship

- Fort Schuyler Management Corporation (FSMC) has funded a \$125M capital investment from New York State for Norsk
- The funding has been used to purchase \$75M of equipment and to outfit two Norsk production facilities worth \$50M
- Almost all of the capital has been successfully deployed and is supporting Norsk's active production facilities, all of which are available for operation



“
Now, Norsk Titanium has groundbreaking technology ... Norsk Titanium **manufactures products less expensive... very little waste.**
Governor Andrew M. Cuomo, New York
”

Norsk's history with NY State

2015



Alliance agreement

2016



Master Equipment Purchase Agreement

2017



Amendment to Master Equipment Purchase Agreement

2020



Completion of the Plattsburg development center

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