RAPID PLASMA DEPOSITION®

NORSK TITANIUM

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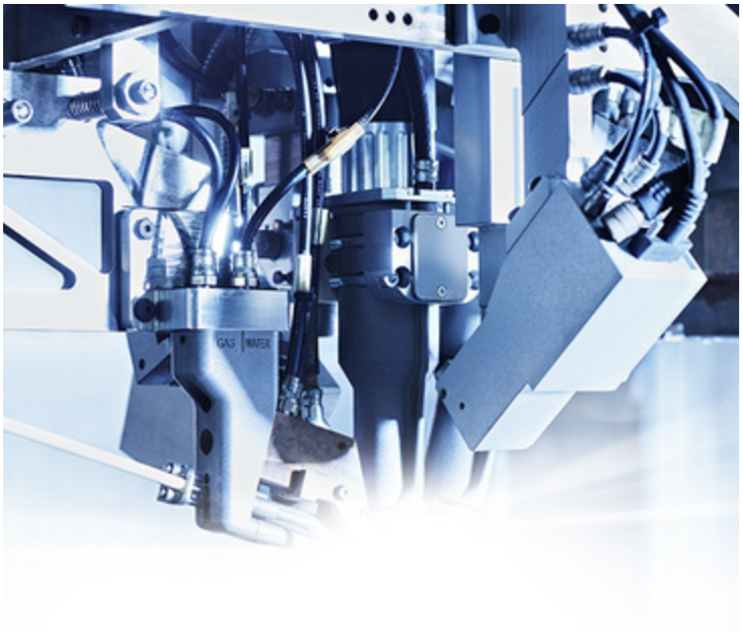
THIS IS NORSK TITANIUM

Norsk Titanium is a global leader in metal 3D printing, innovating the future of metal manufacturing by enabling a paradigm shift to a clean and sustainable manufacturing process. RPD® technology uses significantly less raw material, energy, and time than traditional titanium forming methods. RPD® printed parts are already flying on commercial and defense aircraft and are used in critical industrial applications.



WHAT IS RAPID PLASMA DEPOSITION® (RPD®)

RPD® technology revolutionizes the industry by pioneering a new era of on-demand metal additive manufacturing. The payoffs are astounding: less titanium, less machining, less lead time, and less inventory. These benefits give our customers increased flexibility and 50% cost savings versus legacy processes.

ADDITIVE MANUFACTURING ON AN INDUSTRIAL SCALE

With three production facilities on two continents and over 700 metric tonnes of annual capacity, Norsk Titanium is well positioned to meet the high volume manufacturing needs of our US and European customers. In production since 2017, we have delivered over 3,000 flying parts to our commercial aerospace customers.

SUSTAINABILITY

Norsk Titanium's proven production capabilities deliver lower cost and less machining with less raw material used. Our MERKE IV® machine produces forging quality material with 40-50% less carbon footprint than traditional forming processes. In 2024, our industrial market production alone saved over 100 metric tonnes of CO2 from being released into the atmosphere.

1,100 MT
ANNUAL
CO^2 SAVINGS

+40%
SAVINGS IN ENERGY
AND CARBON EMISSIONS

2GWh
ANNUAL
ENERGY SAVINGS

RPD® BY THE NUMBERS

$400M
USD Invested

100+
Employees

2
Locations US + Norway

15+
Years Experience

35
Machines

700 MT
Annual Capacity

Plattsburgh Production Center (PPC): 7,500m2 Industrial Scale Production Facility

PROCESS CHARACTERISTICS

- Gross Deposition Rate:
  - 5+ kg/hr
- G4 Production Envelope:
  - 900 mm X 600 mm X 300 mm
- G4L Production Envelope:
  - 1,900 mm X 400 mm X 600 mm
- Typical Buy-to-Fly Ratio:
  - 2.5 to 1
- Qualified Material:
  - Ti 6Al 4V
- Development Material:
  - Nickel Chromium (625), 316 Stainless Steel

CERTIFICATIONS & SPECIFICATIONS

- EN9100/AS9100D
- AMS-7004 (Material Properties)
- AMS-7005 (Additive Production Process)
- Commercial OEM Production Specifications
- US Department of Defense Prime Contractor Specifications
- Initial MMPDS Volume II Values (planned for 2026)

UP TO **50%** COST SAVINGS

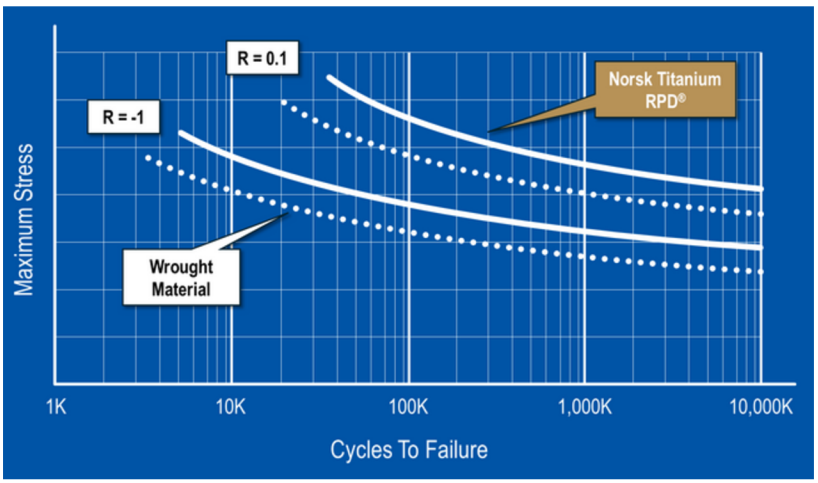
700 MT ANNUAL PRINT CAPACITY

70% LESS WASTE

MATERIAL CHARACTERIZATION

With over 10 years of extensive material testing, Norsk Titanium will soon to be the first-ever additive manufactured material entry published in the world-leading materials handbook, MMPDS. With publicly available material allowables directly comparable to wrought material such as forgings and bar, Norsk Titanium is uniquely poised to disrupt the traditional manufacturing industry.

C-Basis - Material Allowables	Tensile Strength (X & Y)	Tensile Strength (Z)	Yield Strength (X & Y)	Yield Strength (Z)	Elongation, % (X, Y, Z)
Imperial (Inch/Pounds)	130	123	117	112	5 (S-Basis)
SI (MPA)	896	848	807	772	5 (S-Basis)



Norsk Titanium RPD® Fatigue Performance as Compared to Legacy Wrought Material

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