
SANDVIK

WELCOME!

MIKAEL SCHUISKY
VP R&D AND OPERATIONS
SANDVIK ADDITIVE MANUFACTURING

SANDVIK

SAFETY FIRST

Sandvik‘s objective is zero harm to our people, the environment we work in, our customers and our suppliers.

PROTECTIVE EQUIPMENT

FIRST AID KIT

ALARM

EMERGENCY NUMBER

EMERGENCY EXIT

ASSEMBLY POINT

PSYCHOLOGICAL SAFETY

SANDVIK

PROGRAM

TITANIUM POWDER BY SANDVIK
AND ADDITIVE MANUFACTURING

INAUGURATION CEREMONY

”OPEN HOUSE”

CLOSING: 11:30

EXTENDED PROGRAM FOR CUSTOMERS >>

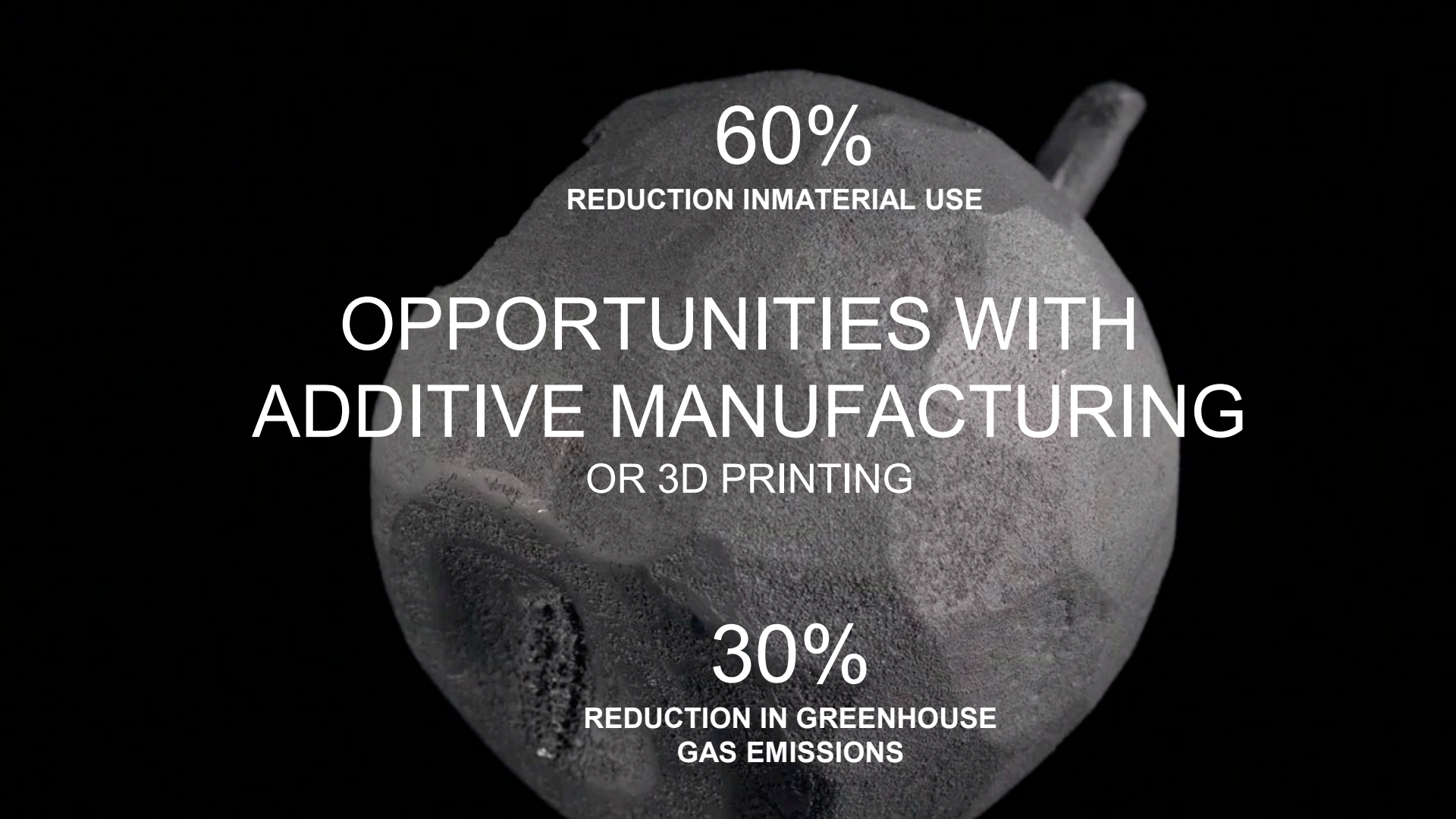

WHY ARE WE HERE TODAY?

THIS IS ONE EXAMPLE…

THE LUNAR AUDI QUATTRO
– a robotized 3D-printed vehicle in titanium and aluminium, that will be sent to the moon to take 360° pictures.

IMAGE CREDIT: AUDI

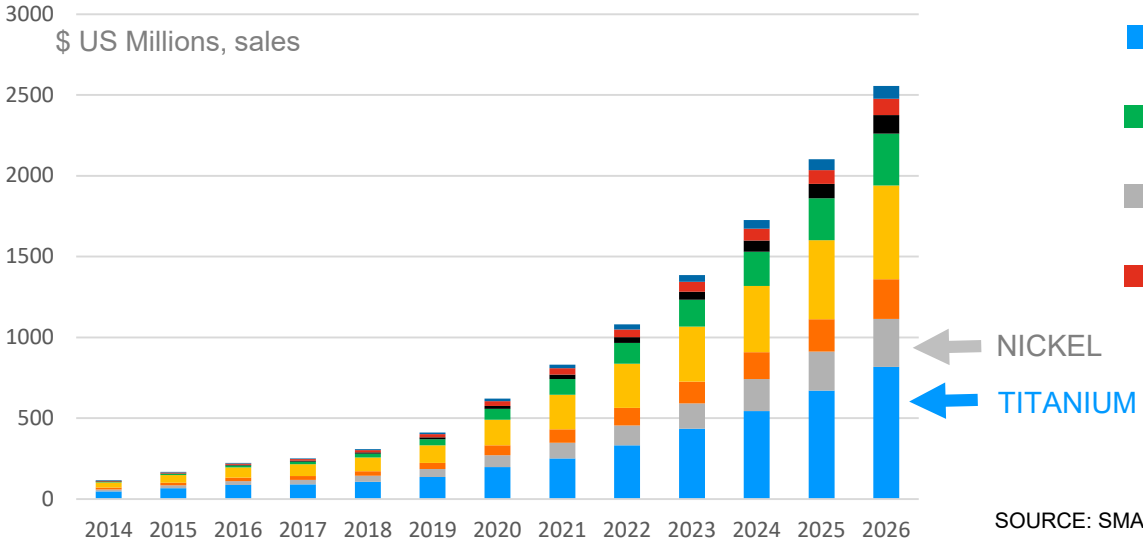

DESIGN
FREEDOM
LIGHTER
COMPONENTS
MASS
CUSTOMIZATION
OPPORTUNITIES WITH
ADDITIVE MANUFACTURING
OR 3D PRINTING
INCREASED
PERFORMANCE
REDUCTIONS IN
INVENTORY
FASTER
REPARIS

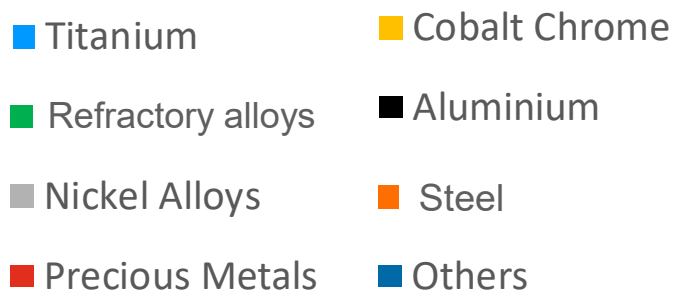

60%
REDUCTION INMATERIAL USE
OPPORTUNITIES WITH ADDITIVE MANUFACTURING
OR 3D PRINTING
30%
REDUCTION IN GREENHOUSE GAS EMISSIONS


LIGHT
STRONG
AS STRONG AS STEEL BUT WITH ONLY 60% OF ITS DENSITY
THE BEAUTY OF TITANIUM
CORROSION
RESISTANT
BIOCOMPATIBLE

METAL POWDER GROWTH (SALES)

TITANIUM POWDER WILL GROW THE MOST





SOURCE: SMARTECH 2018

SHIPMENTS OF TITANIUM POWDERS TO AM USERS GREW BY **32%** IN 2018

MARTIN MUELLER

POWDER OPERATIONS MANAGER

SANDVIK ADDITIVE MANUFACTURING

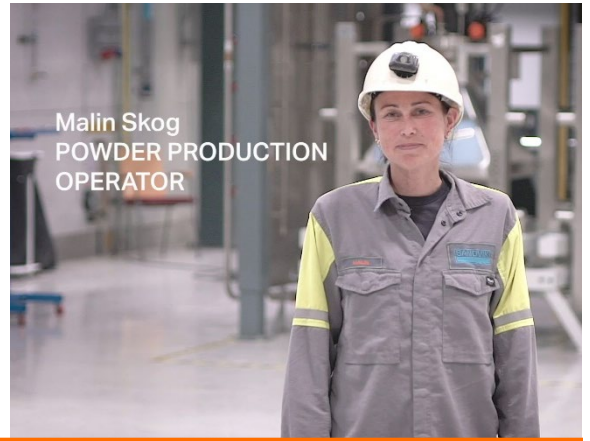
MARTIN MUELLER

POWDER OPERATIONS MANAGER

SANDVIK ADDITIVE MANUFACTURING

MEET OUR ATOMIZATION EXPERTS!

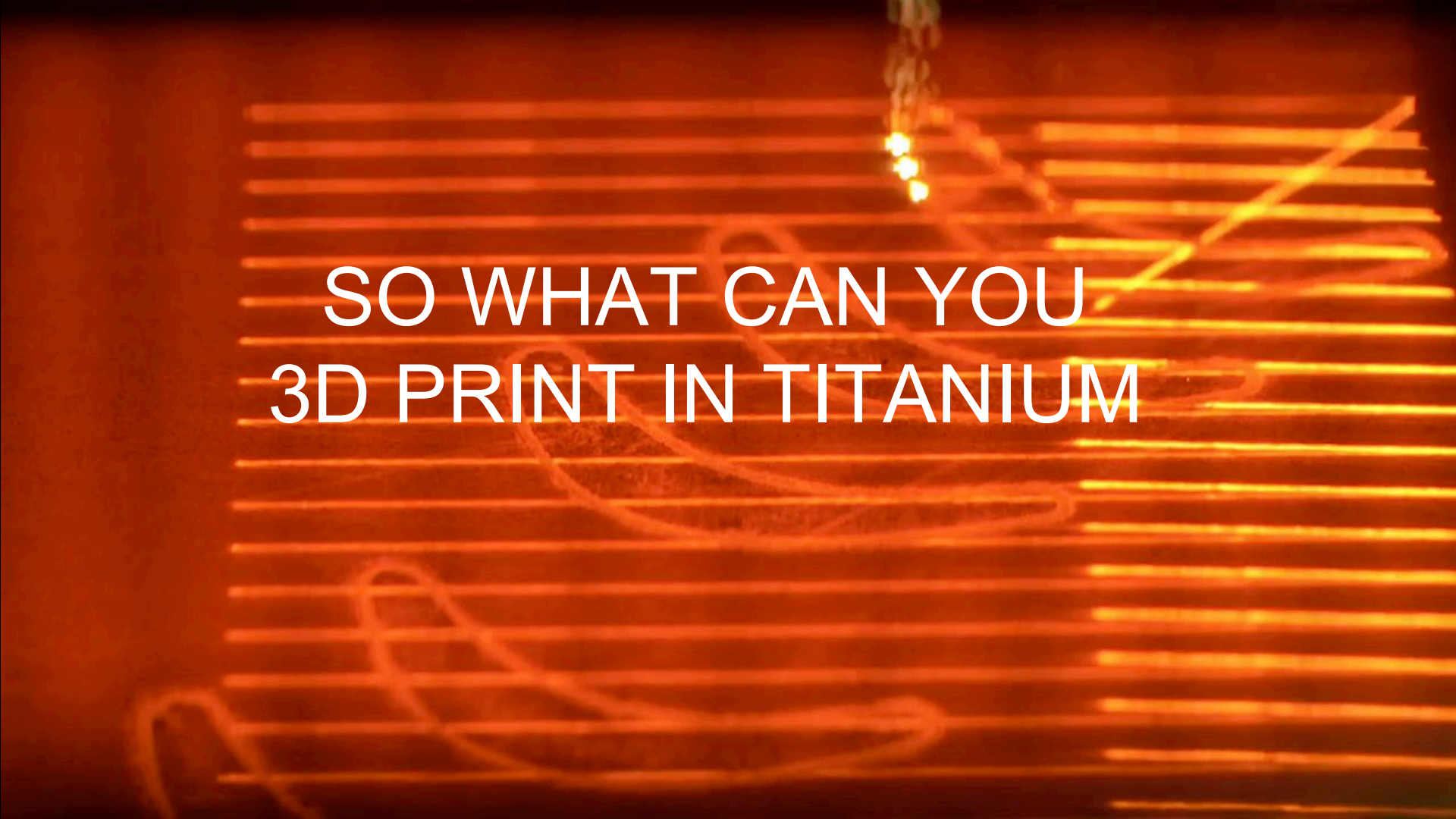
MAKING THE FINEST TITANIUM POWDER FOR ADDITIVE MANUFACTURING



MALIN BJÖRK
POWDER PRODUCTION LEADER

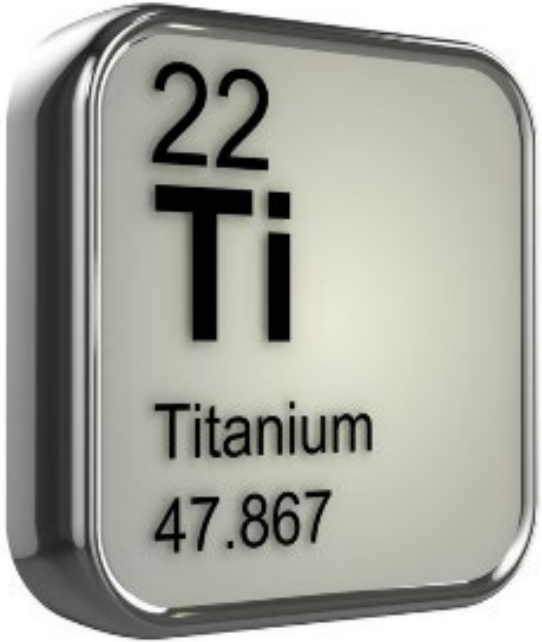
PIERRE MIKAELSSON
POWDER PRODUCTION OPERATOR
/PROCESS DEVELOPMENT

MALIN SKOG
POWDER PRODUCTION OPERATOR


SO WHAT CAN YOU
3D PRINT IN TITANIUM

TOP USES OF TITANIUM POWDER

FOR ADDITIVE MANUFACTURING IN 2018

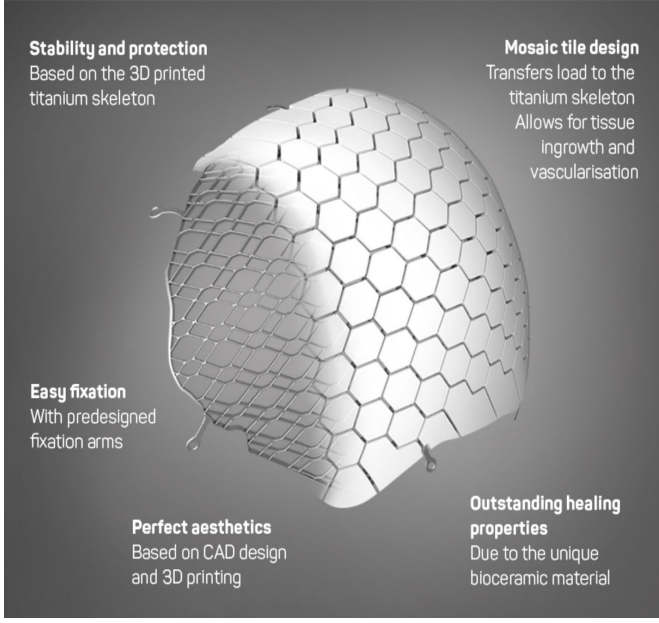


1.	Medical	33%	
2.	Aerospace	27%	
3.	Service bureaus	17%	
4.	Dental	3%	
5.	Automotive	3%	
6.	Oil & Gas	2%	
7.	Energy	2%	
8.	Other	13%	

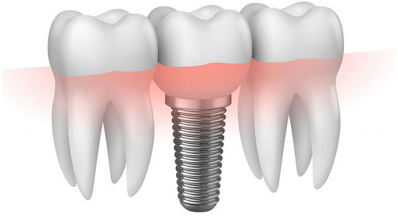
SANDVIK

KAJSA BJÖRKLUND, OSSDSIGN

OSSDSIGN



OTHER EXAMPLES OF 3D PRINTED MEDICAL AND DENTAL APPLICATIONS IN TITANIUM:



MICHELE ANTOLOTTI, BEAMIT

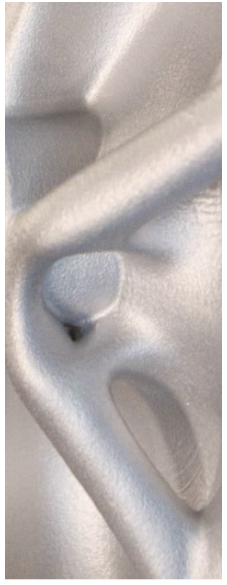
Startup Carboni e Metalli wins award for custom motorcycle with carbon fiber and titanium 3D printed parts

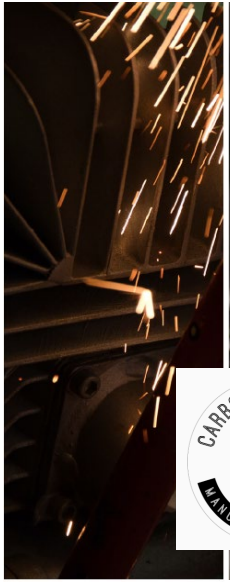
AM service provider Beam-IT supplied the metal 3D printed parts for the Lunar Project bike

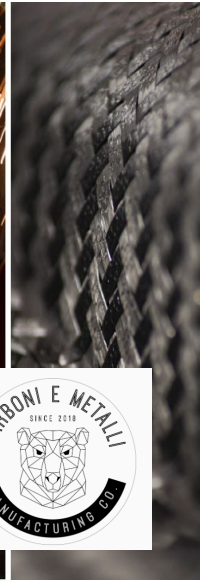
Davide Sher • October 18, 2019

3D Printing Media Network

THE LUNAR PROJECT







3D PRINTED COMPONENTS FOR E-BIKES

ZACH KRAPFL, GSD GLOBAL

BICYCLES

The 10 best cycling innovations

By Ben Coxworth
November 28, 2017

The Tern GSD, a remarkably compact cargo e-bike, is one of our picks for 2017

SOURCE: NEW ATLAS, NOVEMBER 2018

PEDER ARVIDSSON, SANDVIK COROMANT

Lightweight CoroMill® 390

Produced with Additive Manfacturing

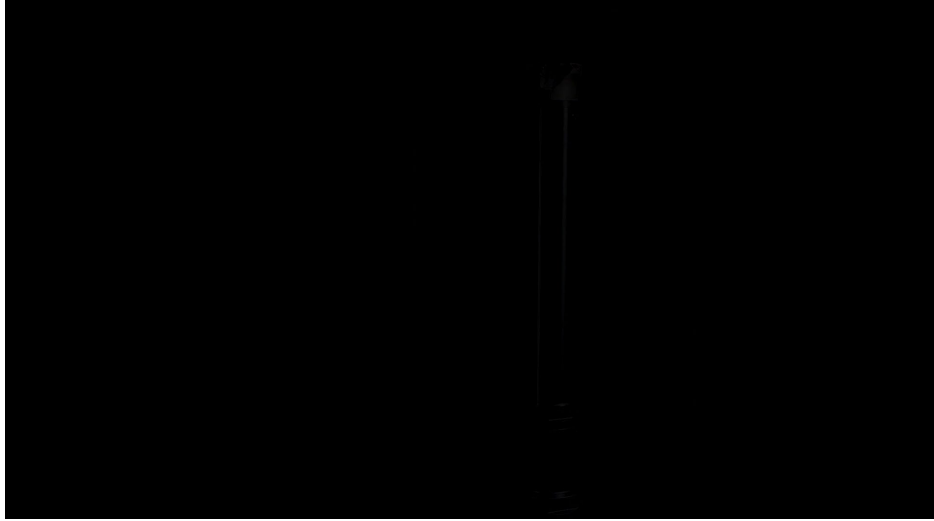
80%

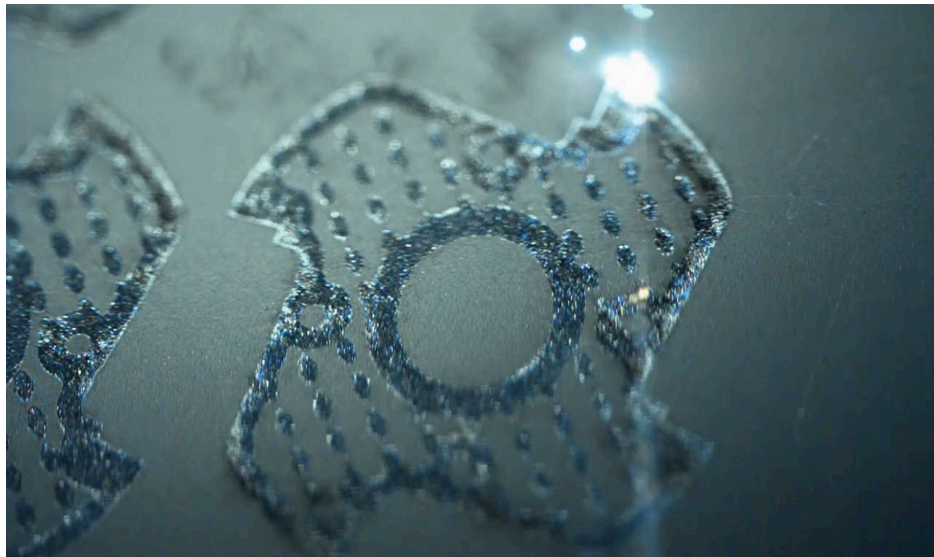
REDUCED WEIGHT

UP TO

200%

INCREASED PRODUCTIVITY





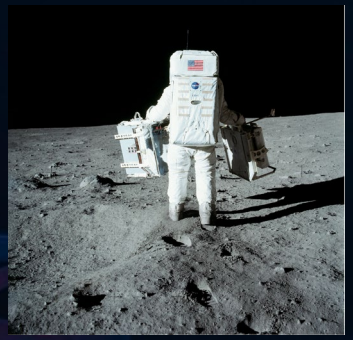
THE WORLD'S FIRST 3D-PRINTED SMASH PROOF GUITAR IN TITANIUM

TESTED BY YNGWIE MALMSTEEN

IMAGE CREDIT:
NASA/JACK SCHMITT

SOURCE: 3D NATIVES, MAY 2019

IMAGE CREDIT:
NASA/JACK SCHMITT



VICTOR HASSELBLAD

IMAGE CREDIT: NASA

LARS BERGSTRÖM

PRESIDENT

SANDVIK MACHINING SOLUTIONS


-00:00:16
HOUR
MINUTE
SECOND


SANDVIK