



METAL 3D-PRINTING SERIAL PRODUCTION 2.0

headmade
materials®



WE SOLVE ALL MAJOR PROBLEMS OF 3D-PRINTING FOR A BROAD INDUSTRY ADOPTION



1

FREE YOURSELF OF SUPPORT STRUCTURES!



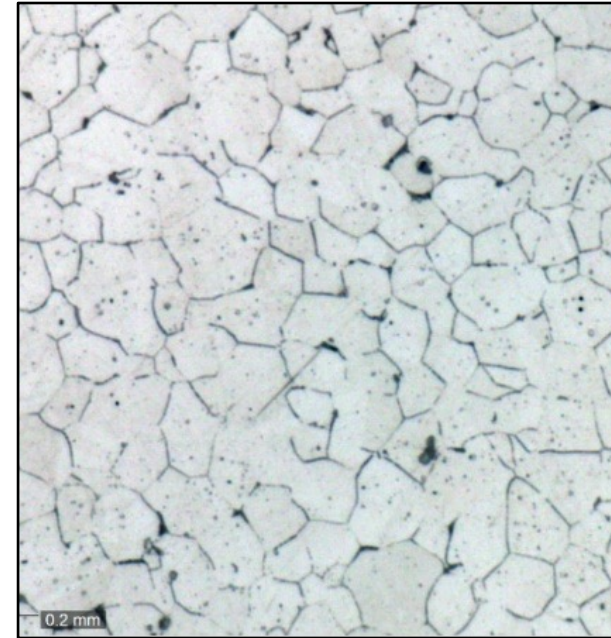
2

LOWER PART PRICES!



3

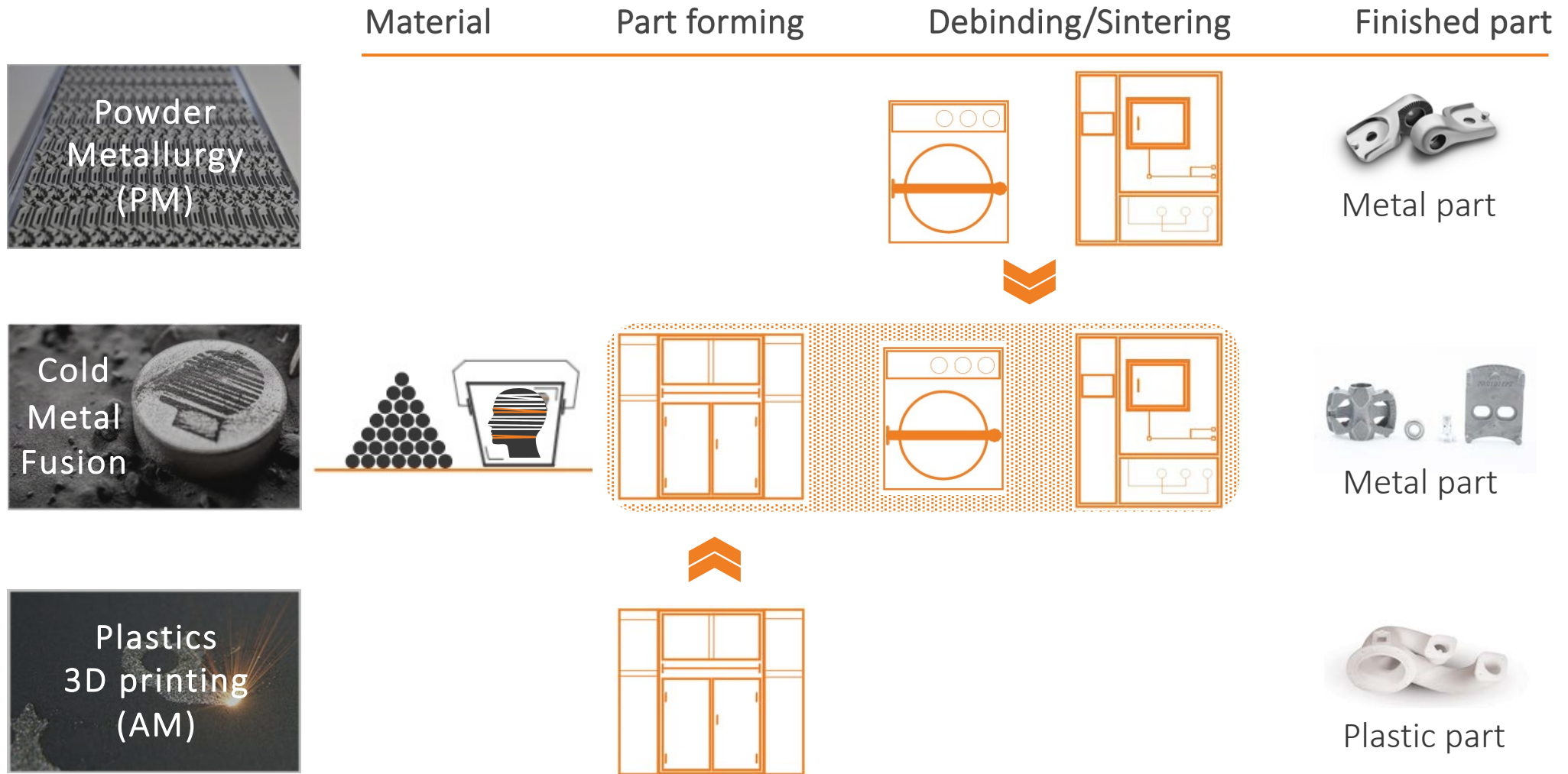
SERIAL PRODUCTION UP TO 100,000 PARTS/YEAR!



4

HIGH QUALITY PARTS!

HEADMADE COMBINES THE WORLD OF (PLASTIC) 3D-PRINTING AND POWDER METALLURGY



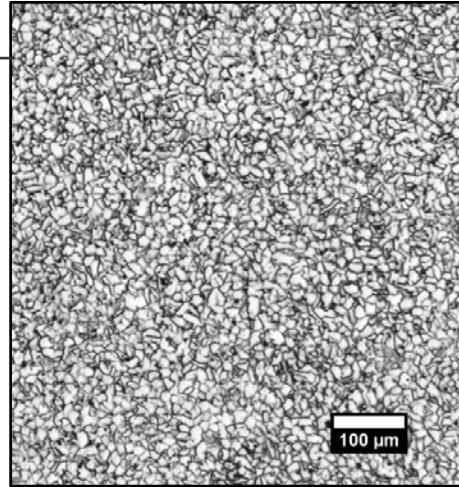
MATERIALS DESIGNED FOR HIGHEST-QUALITY SERIAL PRODUCTION

HIGHEST PART QUALITY

Density up to 99 %

Highest dimensional accuracy

Uniform shrinkage (X-Y-Z)



COST ADVANTAGE

Low CAPEX

High part output

Feedstock 100% reusable



MATERIAL SELECTION

Wide range of materials available

Material mixtures possible

Lower safety risks



PROCESS INTEGRATION

Mature and scalable AM/PM systems

Easy integration


High green part stability

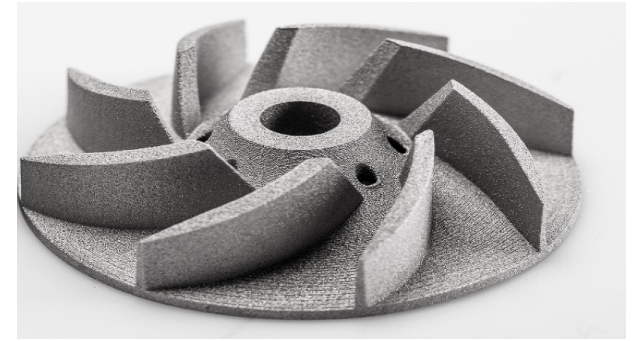
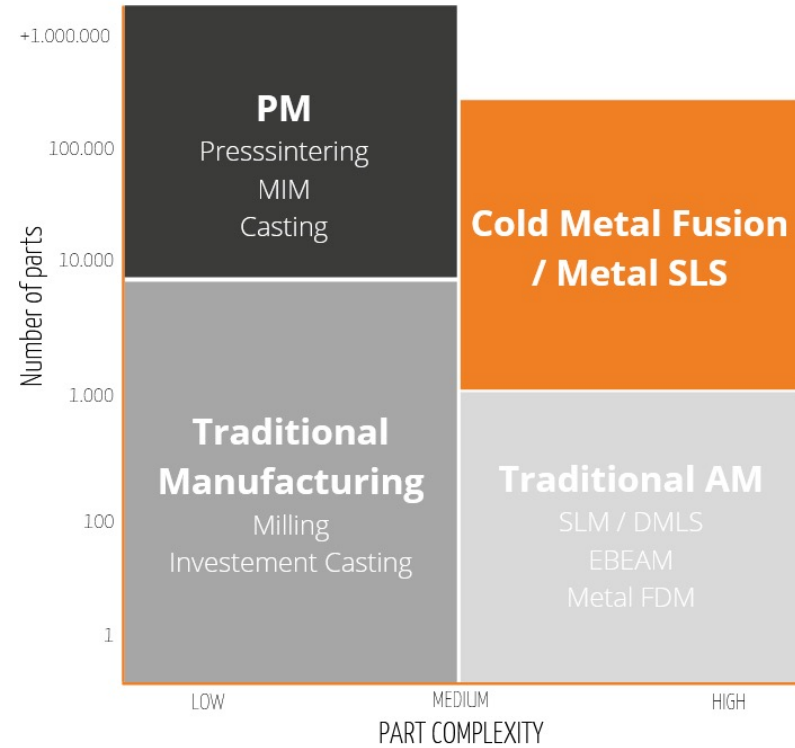


FIELD OF USE CREATES A COMPLETELY NEW MARKET SEGMENT




1 Up to 100,000 parts

 Sweet-spot between 100 to 100,000 parts/year
Too much for traditional metal AM, usually too less for PM




2 Complexity

 Medium to high complex parts
Usually only available for AM-technologies



3 Material selection

 Full PM spectrum
Limited material selection for traditional AM

HEADMADE BUSINESS MODEL




1  Development

2  Materials production

3  Selling Materials



Prototyping Services  1

Technical support  2

➔ MATERIAL MATTERS:
ALL AROUND THE SALE OF
READY-TO-USE FEEDSTOCK MATERIALS

HEADMADE MATERIALS 3D-PRINTING TECHNOLOGY TRANSFORMS THE INDUSTRY



Sturdcycles



oerlikon



AESCULAP

LET'S TRANSFORM THE INDUSTRY TOGETHER

Christian Staudigel
Headmade Materials GmbH
Langhausstraße 9
97294 Unterpleichfeld
Phone: +49 9367 40196-11
Email: c.staudigel@headmade-materials.de

