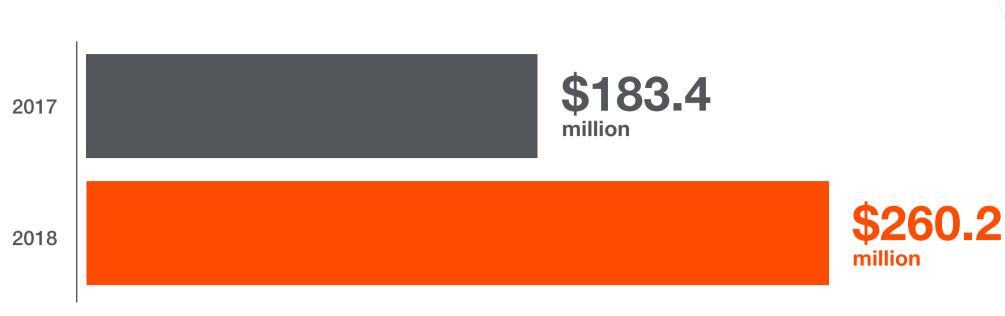
# Advancing what's possible:

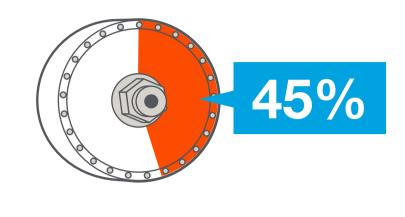
## additive metals

Additive metals are the future of 3D printing and additive manufacturing, serving applications across a huge range of industries — with new techniques and applications being developed every day.

### Why additive metals?

#### Annual revenue (1)





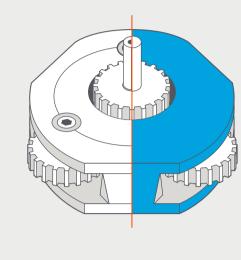
fuel pump, using 45% fewer parts than pumps made with conventional manufacturing. (2)

NASA produced an additive metal rocket engine

**Benefits of additive metals** 

#### Part / assembly consolidation

Reduce required parts and manufacturing costs by consolidating assemblies.

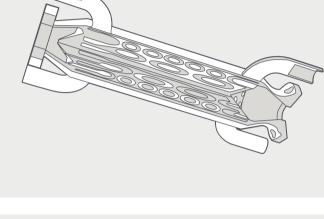


#### Intricate metal parts previously difficult or

**Complex structures** 

manufacturing can be produced faster and more cost-effectively.

impossible to produce with conventional

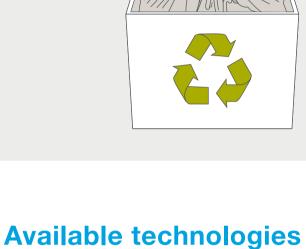


#### Only the required material is used to create a part.

Waste reduction

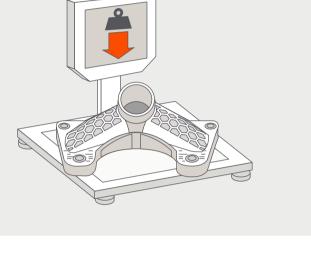
can be reused.

In powder-bed technologies, leftover powders



#### Part consolidation and 3D printing's design freedom results in a lighter part.

Weight reduction



#### Direct Metal Laser Sintering

- Selective Laser Melting Electron Beam Melting
- Direct Metal Laser Melting Laser Cusing

#### Stainless Steel 316L

**Available materials** 

Stainless Steel 17-4 PH

- Cobalt Chrome CoCrMo
- MONEL® K500 Copper C18150
- INCONEL® 625 Aluminum AlSi10Mg

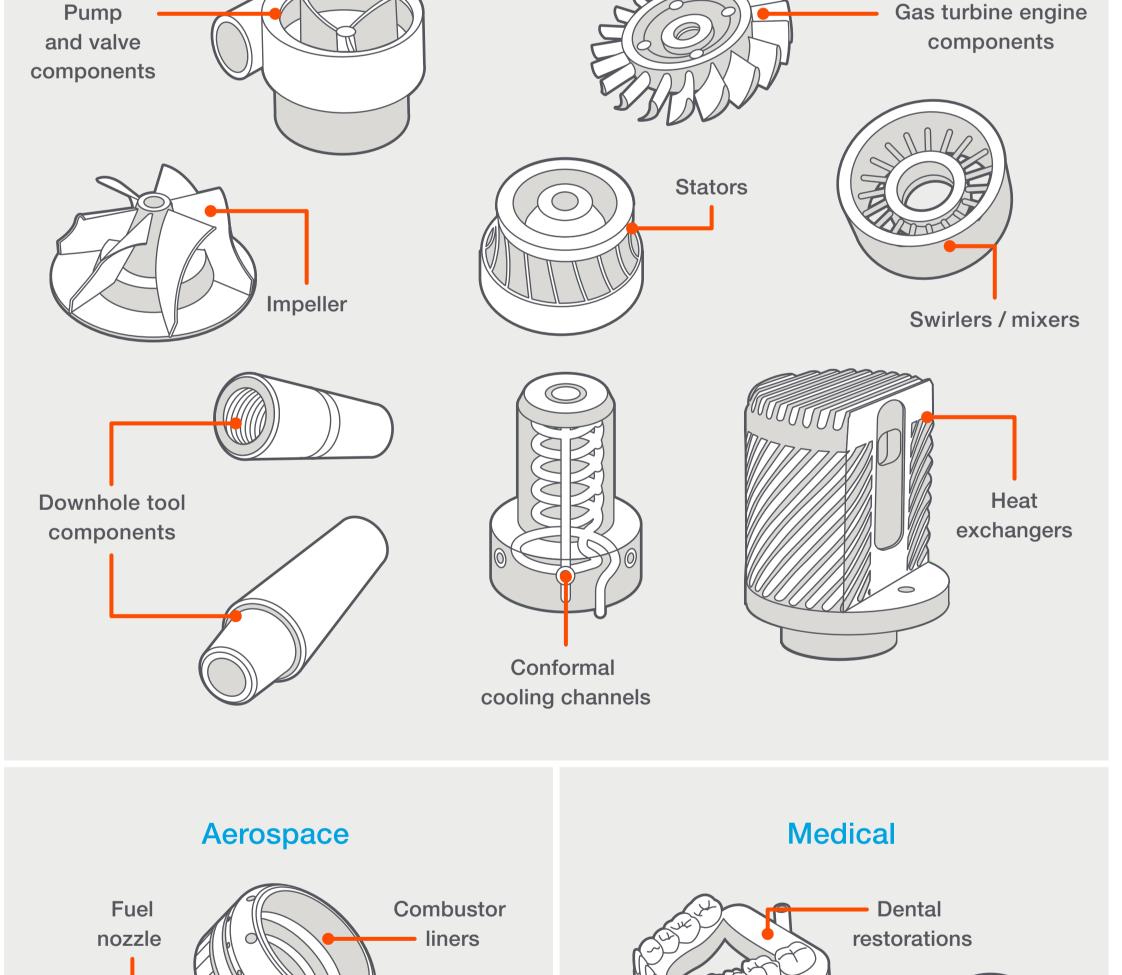
Titanium Ti64

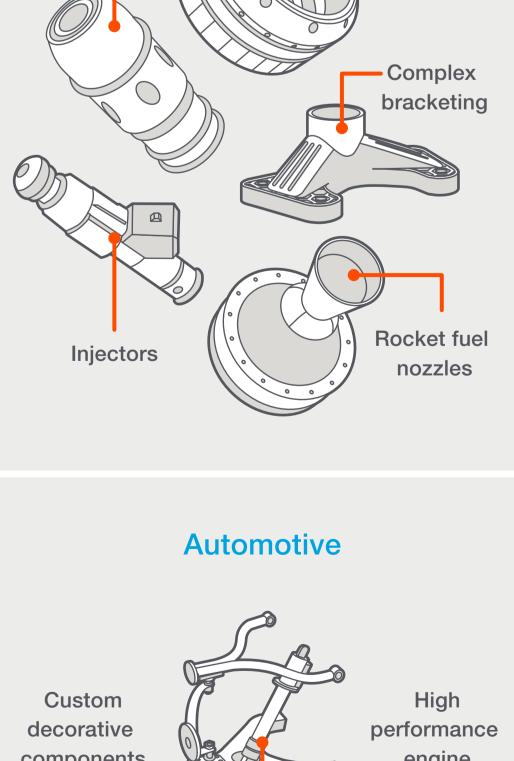
INCONEL® 718

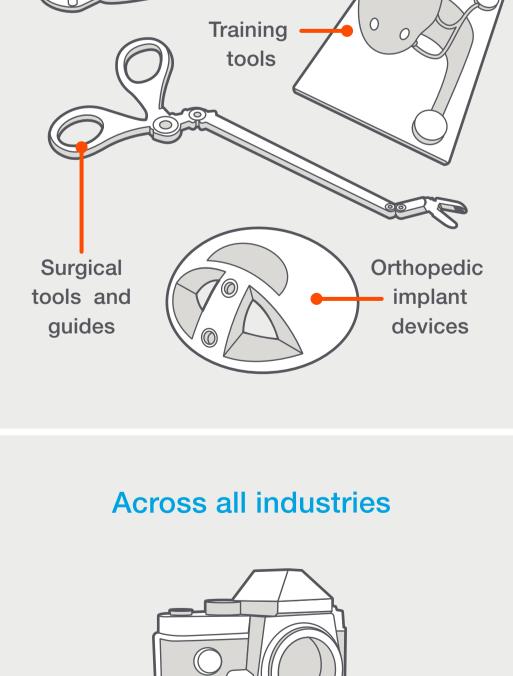
#### additive metals are being used in a broad range of industries. **Energy**

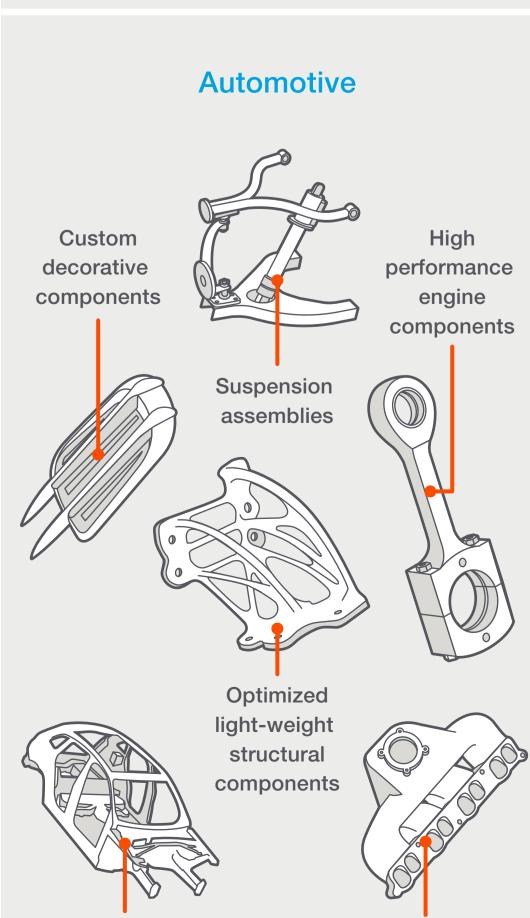
**Using additive metals** 

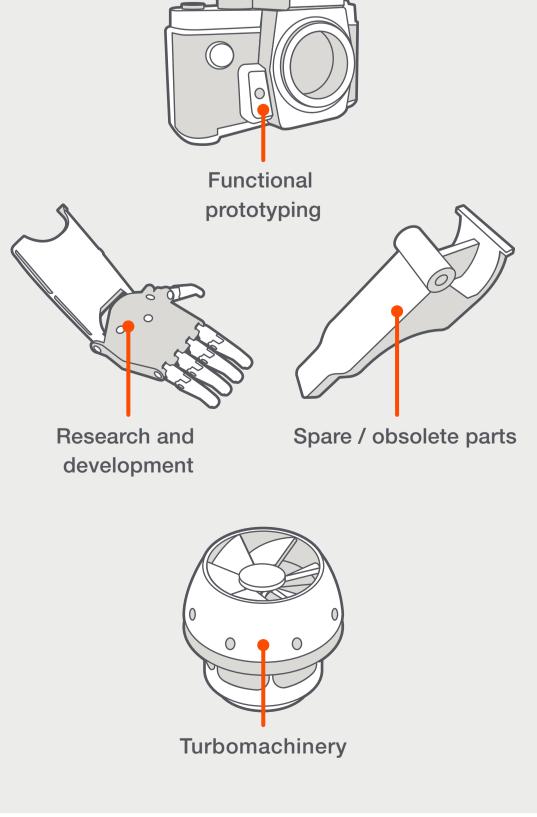
New applications are being developed every day, but here's a look at how











Manifolds

Crash structures