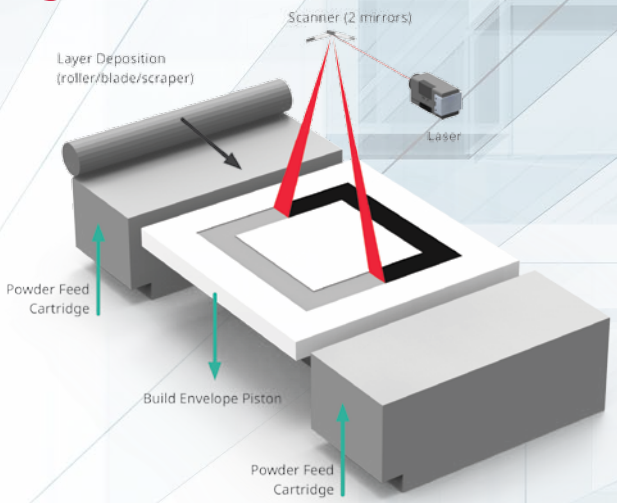
What is Additive Manufacturing and how can it help you?

Direct Metal Printing (DMP) is an additive manufacturing technique that produces parts in a broad variety of metal alloys.
Starting from metal powder the product will be manufactured layer by layer. Each layer is then melted on to the previous one creating a strong and dense part (up to 99.9%) comparable with conventional manufacturing techniques (milling, casting). In this process almost no waste material is created and complex geometries can be built that could not be manufactured otherwise.



3D PRINTING APPLICATIONS

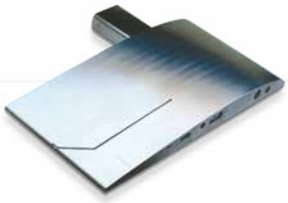
TIRE MOLD SIPES

DENTAL MOLD

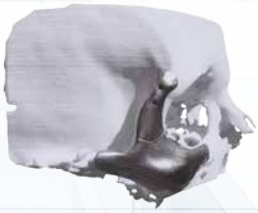
AEROSPACE AIRFOILS

CONFORMAL COOLING
Direct integration of conformal cooling channels into this blow mold increases efficiency by 30%.

SIMPLIFIED ASSEMBLIES
Replacing a complex assembly, this single burner component contains nine under-cuttings and six internal cavities.



ENHANCED FLUID FLOW
For this turbine inlet guide vane, computed fluid dynamics simulation predicts a 70% reduction in shock intensity.



MASS CUSTOMIZATION
Designed to perfectly fit the obstructed zone, this reconstruction corrects the patient's facial asymmetry.

REDUCED WEIGHT
Complex lattice structures allow significant weight reduction for this combustion chamber.

TOPOLOGY OPTIMIZATION
Topology optimized aerospace bracket reduces weight by 35%.