

# Velo3D Value Proposition



## Who We Are, What We Sell

Velo3D is the developer and technology provider of a fully integrated metal 3D printing manufacturing solution. We sell the manufacturing technology, not the printed parts. Customers can also print parts using our partner network of qualified contract manufacturers.

## Business Value Prop

3D print high quality metal parts and bypass traditional design for additive manufacturing (DfAM) limitations. This lets engineers focus on designing parts optimized for performance, not manufacturability, and enables greater innovation and speed-to-market.

## Technical Value Prop

Manufacture complex parts (high aspect ratio/thin walls, complex internal channels, etc.) from one unique "Golden Print" software file with the same output on any Velo3D Sapphire printer, anywhere in the world. Our proprietary non-contact recoater also alleviates the risk of build failures caused by protrusions, which are common among other metal AM providers.

## Customers and Partners



## Contract Manufacturing Partners



## Ideal Part Types & Applications

-  **Energy, Oil & Gas** - Shrouded Impellers, Heat Exchangers, Diffusers, Valves and Volutes
-  **Semiconductor** - Shower Heads, Vaporizers, Injectors, Face Plates, Diffusers, and Manifolds
-  **Automotive Metals Parts** - High Pressure Die Cast Inserts
-  **Space/Aerospace/Defense** - Turbomachinery, Thrust Chambers, Rocket Nozzles, Injectors, Pressure Vessels, Heat Exchangers



## Fully Integrated Metal Additive Manufacturing Solution:

Certification ready, repeatable material properties, reproducible across all Sapphire machines.

**Flow Print Preparation Software:** Prescribes the manufacturing process to the Sapphire family of printers by pulling from dozens of standardized recipes to automatically apply the right recipe to each design feature.

**Sapphire Printers:** State-of-the-art laser powder bed fusion metal AM printers, featuring optimized gas flow, and a unique non-contact recoater.

Machine	Dia in mm	Z in mm	Lasers
Sapphire	315	400	2
Sapphire 1MZ	315	1000	2
Sapphire XC	600	550	8
Sapphire XC 1MZ	600	1000	8

**Assure Quality Control Software:** Enables visibility into every layer of a part's build to ensure unprecedented part quality, build reporting, calibration, machine health, and more.

**Intelligent Fusion:** Proprietary, underlying manufacturing process that is prescribed by Flow, executed by Sapphire and validated by Assure.