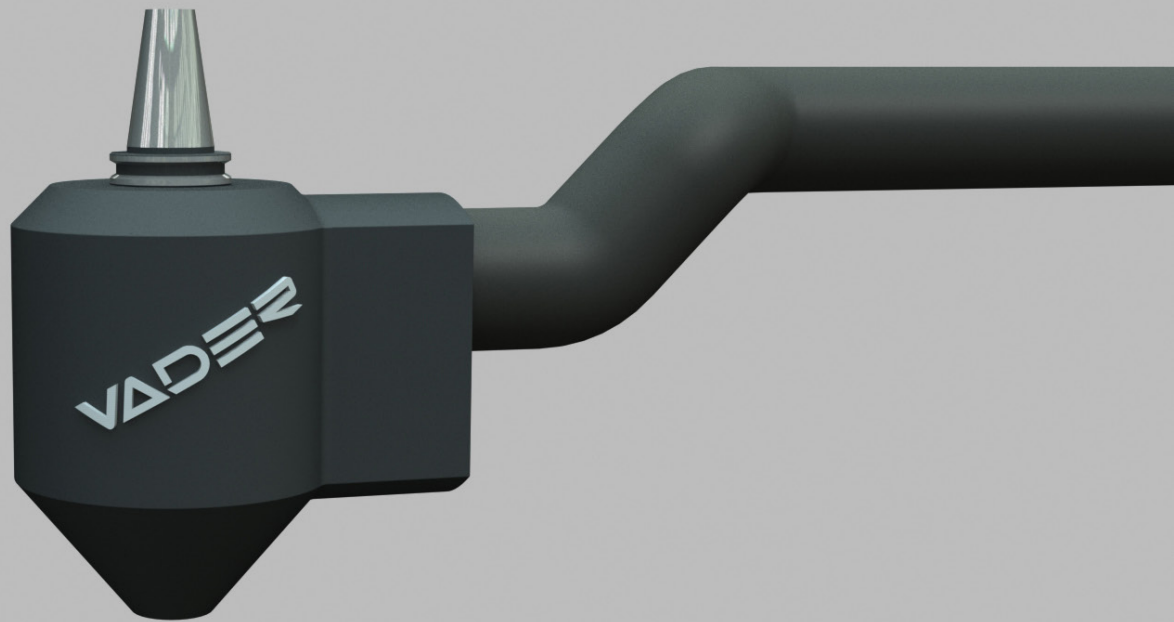




# Magnet-o-Jet™

SUBSYSTEM



LIQUID METAL 3D PRINTING TECHNOLOGY

# Custom integration solutions for liquid metal 3D printing

## Magnet-o-Jet™ Subsystem

Vader Systems provides customized *Magnet-o-Jet™* subsystems that integrate seamlessly within existing process workflows. Powered by VADER™ patented liquid metal printing platform, the *Magnet-o-Jet* subsystem advances existing hybrid technologies, and enables functional on-demand printing, while generating process speeds that will revolutionize how parts are made.

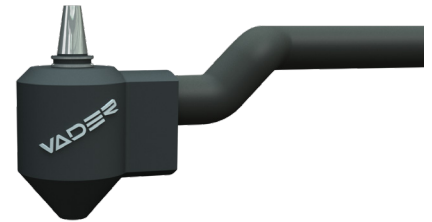
### Benefits

#### Advantages of Custom Subsystem Integration

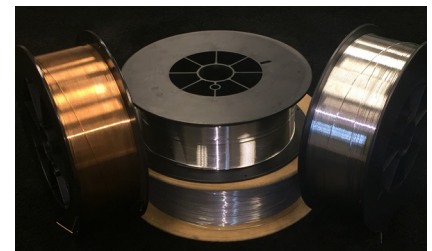
- Subsystem simplifies production workflows and saves time
- Customized solutions turn on industry leading tool heads and turrets
- Self-contained printhead is cutting coolant safe
- Cleaner operation—no sparks or powder spraying
- Enables broader material selection for hybrid manufacturing
- Eliminates cross-contamination concerns
- Minimal heat-affected zone—droplets convey parts
- Safer handling: materials, manufacturing and storage

### Magnet-o-Jet™ Subsystem Technical Specifications

Material	Al 4043, 4047, 1100; In Qualification: 2319, 356, 6061, 7075, Copper, Bronze
Material Format	0.035, 0.0625 in. (0.9, 1.6 mm), Industry-standard spools
Droplet Range	0.012–0.020 in. (300–500 µm)
Volumetric Rate	Up to 12 in./hr (53 mm <sup>3</sup> /sec)
Accuracy	+/-0.015 in. (0.38 mm) FS.
Shield Gas	Argon



Magnet-o-Jet™ Subsystem Printhead



Copper and Aluminum Wire Input Material

### Why Magnet-o-Jet™?

#### Unique Liquid Metal Advantages

- Easily sourced input material
- Less waste—near 100% yield
- Safer and cleaner operation
- Heat treatment not required
- Isotropic material properties
- Complex geometries
- Fastest total process time, from start to part



**Vader Systems, LLC**  
385 Crosspoint Parkway, Suite 104  
Getzville, New York 14068 USA  
+1.716.688.1600 | vadersystems.com