



## HOW IT WORKS

Patented technology enables the SPEED3D to use supersonic deposition in which a rocket nozzle accelerates air up to three to four times the speed of sound. Injected powders are deposited onto a substrate that is attached to a six-axis robotic arm. In this process, the sheer kinetic energy of the particles causes the powders to bind together to form a high-density part.



## MATERIALS

- ▶ High strength Aluminum
- ▶ Aluminum Bronze
- ▶ Copper
- ▶ Stainless Steel
- ▶ Nickel Based Carbides
- ▶ Titanium
- ▶ More in development

## FEATURES

- ▶ Includes printer and all auxiliary equipment within one box
- ▶ Transports as easily as a standard shipping container
- ▶ User friendly expeditionary HMI
- ▶ Rapid build rates – up to 3.5oz / minute
- ▶ 1,000 times faster than laser based 3D printing
- ▶ Customized paint or camouflage
- ▶ Tactical model ruggedized for field deployment
- ▶ Time to finished part including post-processing in hours, not days\*
- ▶ Doesn't require expensive inert gases

\*third party processing times can vary

## TECHNICAL SPECIFICATIONS

### PART BUILD

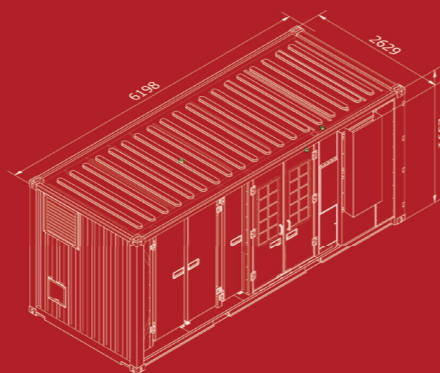
Maximum part size  $\varnothing$  40" x 30" (approx)  
Maximum part weight 90lbs  
Deposition spot size 1/4"

### TWINSPEED3D SOFTWARE

CAD input STL format  
User Interface HMI Touch Screen

### PERFORMANCE SPECIFICATIONS

Deposition rate up to 3.5oz/minute  
Electrical Power Supply 415V (3 phase),  
80A hard-wired connection  
Noise < 80dBA @1m (approx)  
Footprint 20ft container, with clearance  
for doors: 20ft. x 8ft. x 8.5ft.  
XSPEED3D weight 10 metric ton



# MAKE METAL ANYWHERE

## WORLD'S FASTEST CONTAINERIZED METAL 3D PRINTER

[WWW.SPEED3D.COM](http://WWW.SPEED3D.COM)

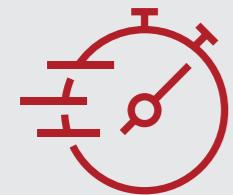




**METAL PARTS ON-DEMAND. FAST.**

Sourcing parts through global supply chains is expensive and unreliable. XSPEE3D offers a containerized, ruggedized, deployable metal Additive Manufacturing capability that provides all the necessary functions to build metal parts in one place.

With XSPEE3D, military forces can maximize productivity, strengthen inventory, and generate parts where and when they are needed quickly.



**HIGH-SPEED RESULTS**

- ▶ 1,000 times faster than other metal based additive manufacturing.
- ▶ From design to finished parts in hours and days, not weeks or months.



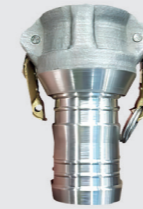
**PRINT WHERE YOU ARE**

- ▶ Transport XSPEE3D as easily as a standard shipping container with printer and all auxiliary equipment within one box.
- ▶ Just hook XSPEE3D up to power and begin part fabrication immediately in remote locations or harsh conditions.



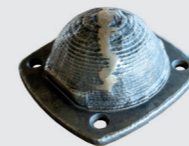
**FLEXIBLE MANUFACTURING PROCESS**

- ▶ Works with over 12 different metal materials, including copper, nickel-based carbides, stainless steel, and titanium.
- ▶ Print one or multiple parts at once up to 90lbs in weight and 40" x 30" in diameter.



**CAMLOCK**

**PRINT TIME** 24 MINUTES  
**MATERIAL** ALUMINUM 6061  
**WEIGHT** 23OZ



**M113 WHEEL BEARING COVER**

**PRINT TIME** 29 MINUTES  
**MATERIAL** ALUMINUM BRONZE  
**WEIGHT** 4.4LBS



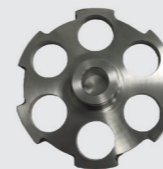
**GUNNER'S RATCHET**

**PRINT TIME** 60 MINUTES  
**MATERIAL** ALUMINUM BRONZE  
**WEIGHT** 4.4LBS



**BILGE PUMP HOUSING**

**PRINT TIME** 83 MINUTES  
**MATERIAL** ALUMINUM BRONZE  
**HOUSING WEIGHT** 18.3LBS



**VALVE HANDLE**

**PRINT TIME** 60 MINUTES  
**MATERIAL** 316 STAINLESS STEEL  
**WEIGHT** 2.6LBS



**WATER COOLING BLOCK**

**PRINT TIME** 40 MINUTES  
**MATERIAL** ALUMINUM 6061  
**WEIGHT** 20OZ



**COPPER ROCKET NOZZLE LINER**

**PRINT TIME** 199 MINUTES  
**MATERIAL** COPPER  
**WEIGHT** 39.4LBS