

# SPEED3D™



## MAKE METAL ANYWHERE

HIGH-SPEED METAL MANUFACTURING  
FOR THE REAL-WORLD

# SPEE3D™

## METAL PARTS ON DEMAND. FAST.

If your organisation works in remote locations, there is someone (it might be you) who carries the burden of keeping equipment operational. This involves predicting what parts might break and need replacing. But it's impossible to predict every broken part and carrying spares for everything 'just in case' is inefficient.

So what happens when that part that 'should never fail'... does? Freighting in a replacement can take days or weeks, costing your organisation a small fortune.

That's where SPEE3D comes in. This technology is every asset manager and logistician's dream, in minutes or hours, you can simply print a replacement part on-site.

### PROVEN

SPEE3D has been perfecting their patented cold-spray metal additive manufacturing technology for over a decade and the machines have been put through the world's toughest field trials with the Australian Defence Force.

### DEPLOYABLE

The machines are proven to be deployable, networked, rugged and tough - making them ideal for organisations like defence, mining and offshore industries.

### STRONG PARTS

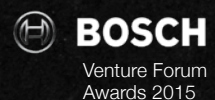
Unlike other additive manufacturing processes, with SPEE3D you can make large parts (up to 40kg), that are full-density, robust and strong.

### ULTRA HIGH SPEED

1000 times faster than traditional 3D printing. Large parts only take hours to print with SPEE3D technology, as opposed to waiting weeks or months.

### SAVE TIME AND MONEY

If having that critical part on-demand would save the day, SPEE3D is here to help. Get the parts you need to get back up and operational, today.





### **CAMLOCK**

**PRINT TIME** 24.4 MINUTES  
**MATERIAL** ALUMINUM 6061  
**WEIGHT** 660G  
**COST** \$66 (USD)

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### **STARTER FLYWHEEL**

**PRINT TIME** 25 MINUTES  
**MATERIAL** ALUMINUM BRONZE  
**WEIGHT** 2.5KG  
**PRINT COST** \$125 (USD)

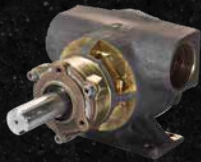
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### **GUNNER'S RATCHET**

**PRINT TIME** 60 MINUTES  
**MATERIAL** ALUMINUM BRONZE  
**WEIGHT** 2KG  
**PRINT COST** \$103 (USD)

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### **BILGE PUMP HOUSING**

**PRINT TIME** 83 MINUTES  
**MATERIAL** ALUMINUM BRONZE  
**HOUSING WEIGHT** 8.3KG  
**HOUSING PRINT COST** \$415 (USD)

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### **316 STAINLESS VALVE HANDLE**

**PRINT TIME** 60 MINUTES  
**MATERIAL** 316 STAINLESS STEEL  
**WEIGHT** 1.2 KG  
**PRINT COST** \$96 (USD)

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### **WATER-COOLING BLOCK**

**PRINT TIME** 40 MINUTES  
**MATERIAL** ALUMINUM 6061  
**WEIGHT** 580G  
**PRINT COST** \$58 (USD)

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### **COPPER ROCKET NOZZLE LINER**

**PRINT TIME** 199 MINUTES  
**MATERIAL** COPPER  
**WEIGHT** 17.9KG  
**PRINT COST** \$716 (USD)

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## **POST PROCESSING**

SPEE3D can also supply you with any post-processing equipment you require to achieve the desired part finish, including heat treatment and CNC mills.

# WARPSPEE3D

MANUFACTURE PARTS UP TO Ø1000mm x 700mm

## HOW IT WORKS

SPEE3D's patented technology uses supersonic deposition in which a rocket nozzle accelerates air up to three 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

- > Aluminum (6061 & pure)
- > Copper (pure)
- > Aluminum bronze
- > Stainless Steel
- > More materials in development

## FEATURES

- > User friendly HMI
- > Rapid build rates – up to 100grams/minute
- > 1,000 times faster than laser based 3D printing
- > Customised paint or camouflage
- > Tactical model ruggedised for field deployment
- > Parts can be handled immediately
- > Doesn't require expensive inert gases

## TECHNICAL SPECIFICATIONS

### PART BUILD INFORMATION

Maximum part size ø 1m x 0.7m (approx)  
Maximum part weight 40kg

### TWINSPEED SOFTWARE

CAD input STL format  
User Interface Touch Screen

### PERFORMANCE SPECIFICATIONS

Deposition rate up to 100g/minute  
Electrical Power Supply 415V (3 phase), 32A socket  
Compressed air supply minimum 35 Bar, 1.0m<sup>3</sup>/min  
Noise < 85dBA @1m  
Machine footprint (mm) 4128 x 4553 x 2743 DxWxH  
Machine weight 4000kg (approx)



WarpSPEE3D  
Tactical model

**SPEE3D**  
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