

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

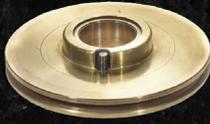
If having that critical part on-demand would save the day, SPEE3D is here to help. Get the parts you need to get back up and operational, today.





CAMLOCK

PRINT TIME 24.4 MINUTES
MATERIAL ALUMINUM 6061
WEIGHT 660G



STARTER FLYWHEEL

PRINT TIME 25 MINUTES
MATERIAL ALUMINUM BRONZE
WEIGHT 2.5KG



GUNNER'S RATCHET

PRINT TIME 60 MINUTES
MATERIAL ALUMINUM BRONZE
WEIGHT 2KG



BILGE PUMP HOUSING

PRINT TIME 83 MINUTES
MATERIAL ALUMINUM BRONZE
HOUSING WEIGHT 8.3KG



316 STAINLESS VALVE HANDLE

PRINT TIME 60 MINUTES
MATERIAL 316 STAINLESS STEEL
WEIGHT 1.2 KG



WATER-COOLING BLOCK

PRINT TIME 40 MINUTES
MATERIAL ALUMINUM 6061
WEIGHT 580G



COPPER ROCKET NOZZLE LINER

PRINT TIME 199 MINUTES
MATERIAL COPPER
WEIGHT 17.9KG

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



WarpSPEE3D
Tactical model

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, 1.0m³/min
Noise < 85dBA @1m
Machine footprint (mm) 4128 x 4553 x 2743 DxWxH
Machine weight 4000kg (approx)

SPEE3D
www.SPEE3D.com