

Expeditionary metal 3D printing



SPEED3D

WE MAKE MANUFACTURING EASIER



1. Metal 3D printer manufacturer

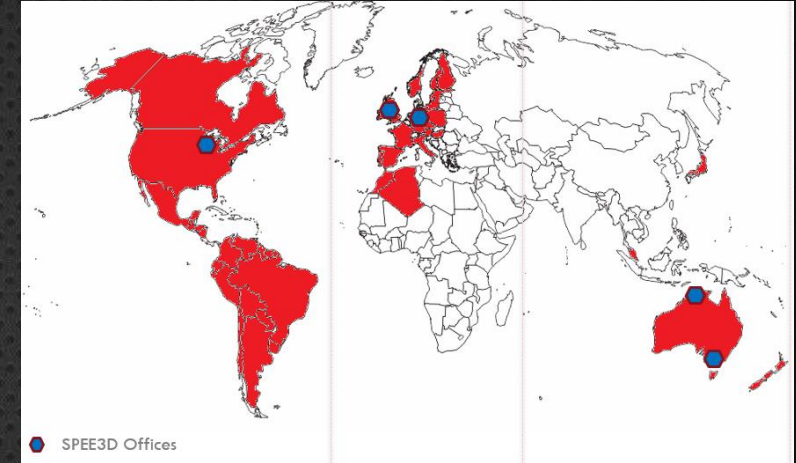
- Operations in Australia, Europe and the USA + global reseller network

2. Providing technology that is platform independent

- Sales into Australian Army, Navy and Special Forces
- Installed at U.S. Army's Rock Island Arsenal

3. Enabling Sovereign Capability, globally

- Capitalising on trend towards onshoring of spare parts



Supply of replacements parts to the Defence front line is *highly challenging and expensive*

Expeditionary metal 3D printing is proven to slash supply chain waiting times

SPEE3D provides parts in hours to the front line



TECHNOLOGY PROVEN IN THE HARSHTEST CONDITIONS

SPEED3D

The only metal 3D printer *proven for expeditionary 3D printing*

- Deployed by the Australian Defence Forces
- Tested in the harshest conditions

Globally recognized leader in expeditionary 3D printing

Turnkey solution

- Printers, ovens, CNC machining and support



- An impressively wide range of parts was examined and built.
 - Pre existing, long standing “unsolvables” fixed
 - obsolete parts
 - unobtainable parts
 - reliability and safety improvements
 - Expeditionary production of “ready-for-use” parts including printing, heat treatment, machining, testing, reporting
- Use cases include:**
- Tools
 - Safety and reliability improvements
 - Vehicle components
 - Stationary infrastructure components
 - Pressurized couplings
 - Pumps
 - Maintenance parts for power tools
 - Repair components for common forms of field breakages



2 CORE MACHINES

LIGHTSPEED3D
TACTICAL



On-base production



WARP SPEED3D
TACTICAL



Expeditionary capable for Army/Navy



ACCESSORIES UNIT

SPEED3DCORE
TACTICAL



On-base and expeditionary



The Australian Army, Australian Navy and Special Forces are undertaking \$4.0M trials in an on-site and expeditionary environment. No other technology worldwide has been tested to this degree.

1



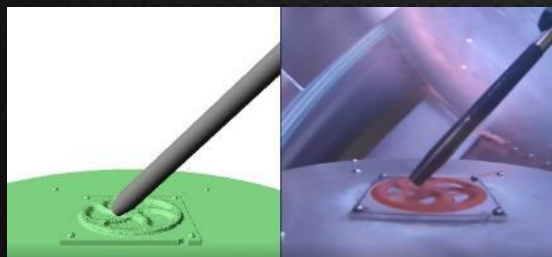
MATERIALS (POWDERS)

- Aluminum
- Copper
- Aluminium Bronze
- Tungsten
- Stainless Steel

4

TWINSPEE3D SOFTWARE

Sophisticated algorithms used to generate **robotic tool path**



2

ROBOTIC ARM

Metal powder is deposited onto a substrate maneuvered by a **six-axis robotic arm**.

The sheer kinetic energy of the particles hitting each other causes the powders to bind together



3

ROCKET NOZZLE

Metal powders are accelerated to **supersonic speeds** using heated, compressed air



Why partner with SPEE3D?



- This market requires strong partners to support the major Defence forces. SPEE3D has the right technology and capabilities
- Benefits to partnering
 - New business model – licensing of designs to Defence vs providing parts
 - High margin revenue and earnings growth
 - Solving Defense supply chain issues across platforms
 - Secure strategic positioning - avoid being disrupted (e.g. Kodak moment)

Next Steps

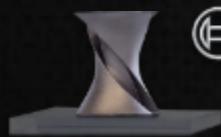
1. Identify parts for a case study and build business case
2. Establish a formal relationship
3. Approach the end Defence customers
4. Jointly demonstration and trials





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BOSCH

Venture Forum
Awards 2015

