



SOLUTION CAPABILITIES

- 3D print metal parts using patented Supersonic Deposition (SP3D)
- Fully integrated design including enclosed build chamber, powder feeder, electronics and print head.

| PART BUILD CAPABILITIES | | OPERATIONAL REQUIREMENTS | |
|-------------------------|---|--------------------------|-------------------------------|
| Max part size | Ø350mm x 300mm (27L) | Electrical Power Supply | 415V (3 phase), 32A socket |
| Max part weight | 4kg | Compressed Air | 30Bar, 1.0m ³ /min |
| High build rates | 100g/minute (max) | Noise | < 85dBA @1m |
| Materials | Aluminium 6061, Al-Bronze, Copper. Coming soon: SS316 | Machine footprint (mm) | 3130 x 1460 x 2325mm |
| Min part thickness | 6mm | Machine weight | Approx 1850kg |

SOLUTION RELEVANCE

Challenge: Defence is required to operate sophisticated equipment remotely. This equipment can become inoperable or unsafe to operate in the field as metal parts break or corrode. Reliable access to replacement parts is complex due to issues with logistics, supply time, downtime, warehousing and obsolescence. 3D printing metal parts solves this problem however traditional methods are costly, slow, fragile, bulky and potentially unsafe.

Solution: LightSPEE3D uses a new 3D printing technology that allows Defence to reliably print metal parts in minutes, on demand, at the point of need. Parts can be printed from a digital inventory in common metals. The equipment is robust and when housed within a shipping container it becomes a fully portable solution that can be installed remotely, at port or on a ship with ease. LightSPEE3D is inexpensive and safe to operate, using non-flammable metal powders and compressed air rather than special gases.

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