

CLAIMS**CLAIMS:**

1. A system comprising:
a mobile platform comprising:
a metal powder production machine configured to receive a solid and continuous metal and output a metal powder; and
an additive manufacturing system configured to receive the metal powder and output a manufactured component.
2. The system of claim 1, wherein the mobile platform comprises a storage container configured to couple to a vehicle.
3. The system of claim 1, wherein the mobile platform comprises a process diagnosis machine configured to perform non-destructive testing on the manufactured component.
4. The system of claim 1, wherein the additive manufacturing system is configured to receive computer models remotely.
5. The system of claim 1, wherein the additive manufacturing system is configured to be controlled by a remote device.
6. The system of claim 1, wherein the manufactured component comprises a measurement

while drilling alternator, a rotary steerable pad, a wear band, a port hole, a flow diverter, a drill bit, or a packer expansion element, or any combination thereof.

7. The system of claim 1, wherein the solid and continuous metal is a scrap metal from an oil and gas work site.

8. The system of claim 1, wherein the mobile platform comprises a powder blender configured to receive the metal powder and mix the metal powder with another metal powder to produce a blended metal powder.

9. A method for manufacturing components, comprising:
storing a metal powder production machine and an additive manufacturing system in a vehicle at an oil and gas work site;
receiving, via the metal powder production machine, a solid and continuous metal from an oil and gas work site;
producing, via the metal powder production machine, a metal powder from the solid and continuous metal; and
manufacturing, via the additive manufacturing system, a component from the metal powder.

10. The method of claim 9, wherein producing the metal powder comprises atomizing the solid and continuous metal via at least one of a gas atomization, a water atomization, a centrifugal atomization, or a consumable electrode atomization.

11. The method of claim 9, wherein manufacturing the component comprises at least one of a hot isostatic pressing process, a powder bed fusion process, or a direct energy deposition process.
12. The method of claim 9, comprising inspecting, via a process diagnosis machine, the metal powder and mixing the metal powder with another metal powder to produce a blended metal powder.
13. The method of claim 9, comprising inspecting, via a process diagnosis machine, the component via non-destructive testing.
14. The method of claim 9, comprising transporting the metal powder production machine and the additive manufacturing system to a second oil and gas work site via the vehicle.
15. The method of claim 9, comprising remotely controlling the metal powder production machine and the additive manufacturing system via a remote device.
16. A system comprising:
 - a storage container coupled to a vehicle, wherein the storage container comprises:
 - a metal powder production machine configured to receive solid and continuous metal and output a metal powder;
 - an additive manufacturing system configured to receive the metal powder and output a manufactured component; and

a process diagnosis machine configured to perform non-destructive testing on the manufactured component.

17. The system of claim 16, wherein the metal powder production machine is configured to atomize the solid and continuous metal via at least one of a gas atomization, a water atomization, a centrifugal atomization, or a consumable electrode atomization.

18. The system of claim 16, wherein the additive manufacturing system is configured to output the manufactured component via at least one of a hot isostatic pressing process, a powder bed fusion process, or a direct energy deposition process.

19. The system of claim 16, wherein the storage container comprises a powder blender configured to receive the metal powder and mix the metal powder with another metal powder to produce a blended metal powder.

20. The system of claim 16, wherein the additive manufacturing system is configured to be remotely controlled by a remote device.