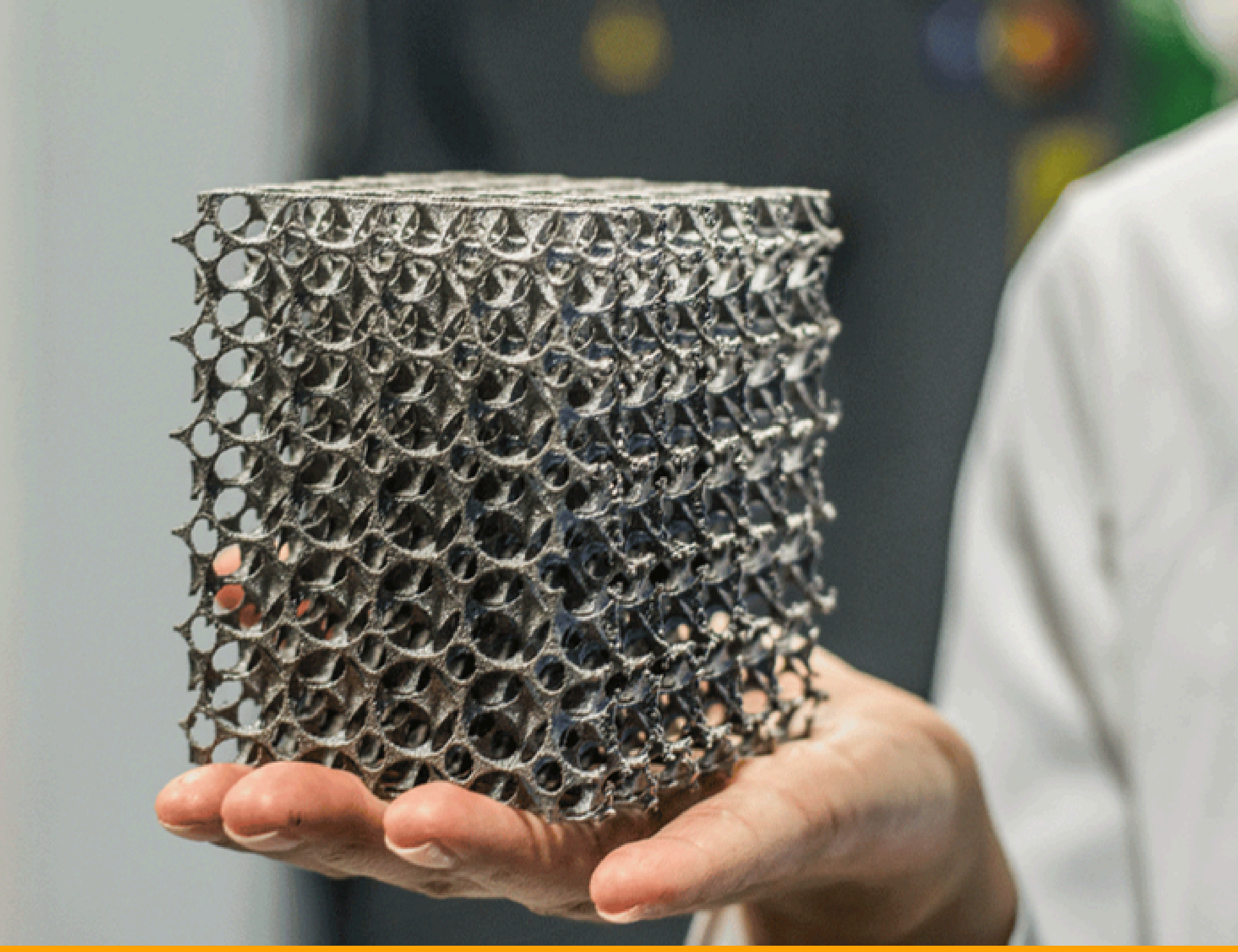

What is Metal 3D Printing?

Swipe next →

image::https://www.hubs.com/knowledge-base/introduction-metal-3d-printing/

Metal 3D printing is an additive manufacturing technique that creates metal components layer by layer directly from a digital design.

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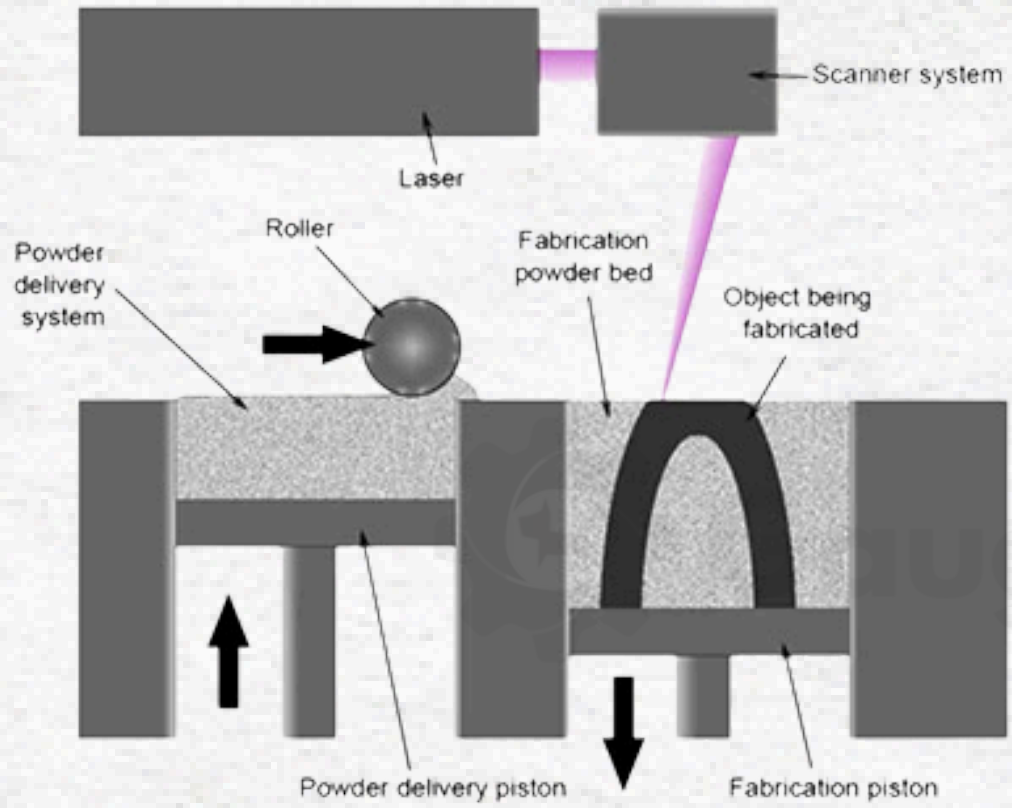
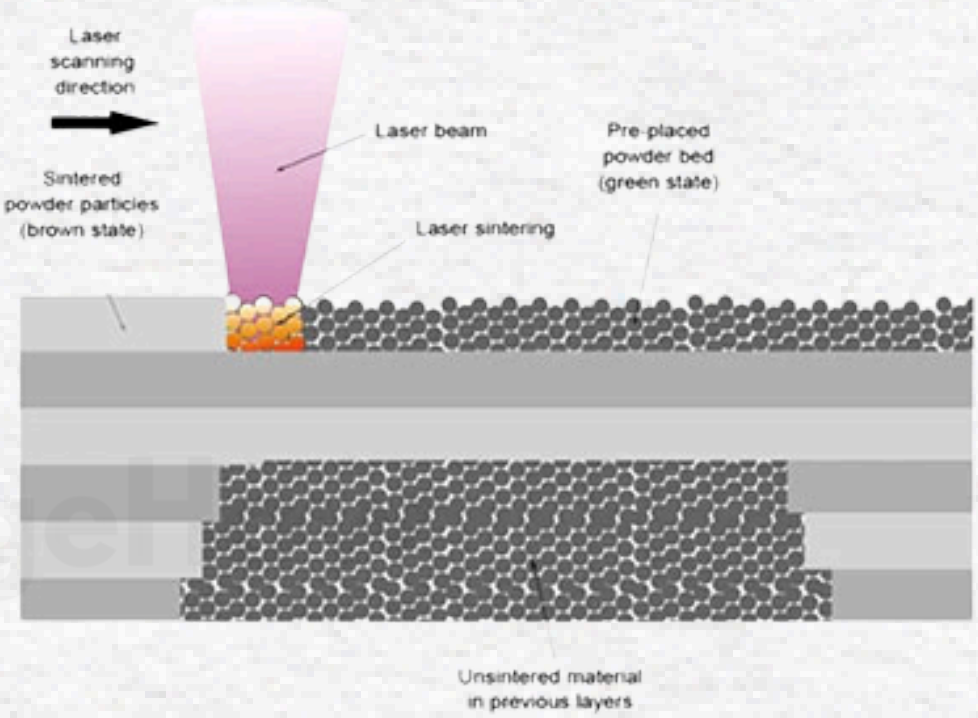
Image:https://www.pcbway.com/rapid-prototyping/3D-Printing/3D-Printing-SLM.html





Selective Laser Melting (SLM)

SLM is a metal additive manufacturing process where a high-powered laser completely melts fine layers of metal powder, fusing them into a dense, fully solid part with mechanical properties comparable to conventionally manufactured metals.

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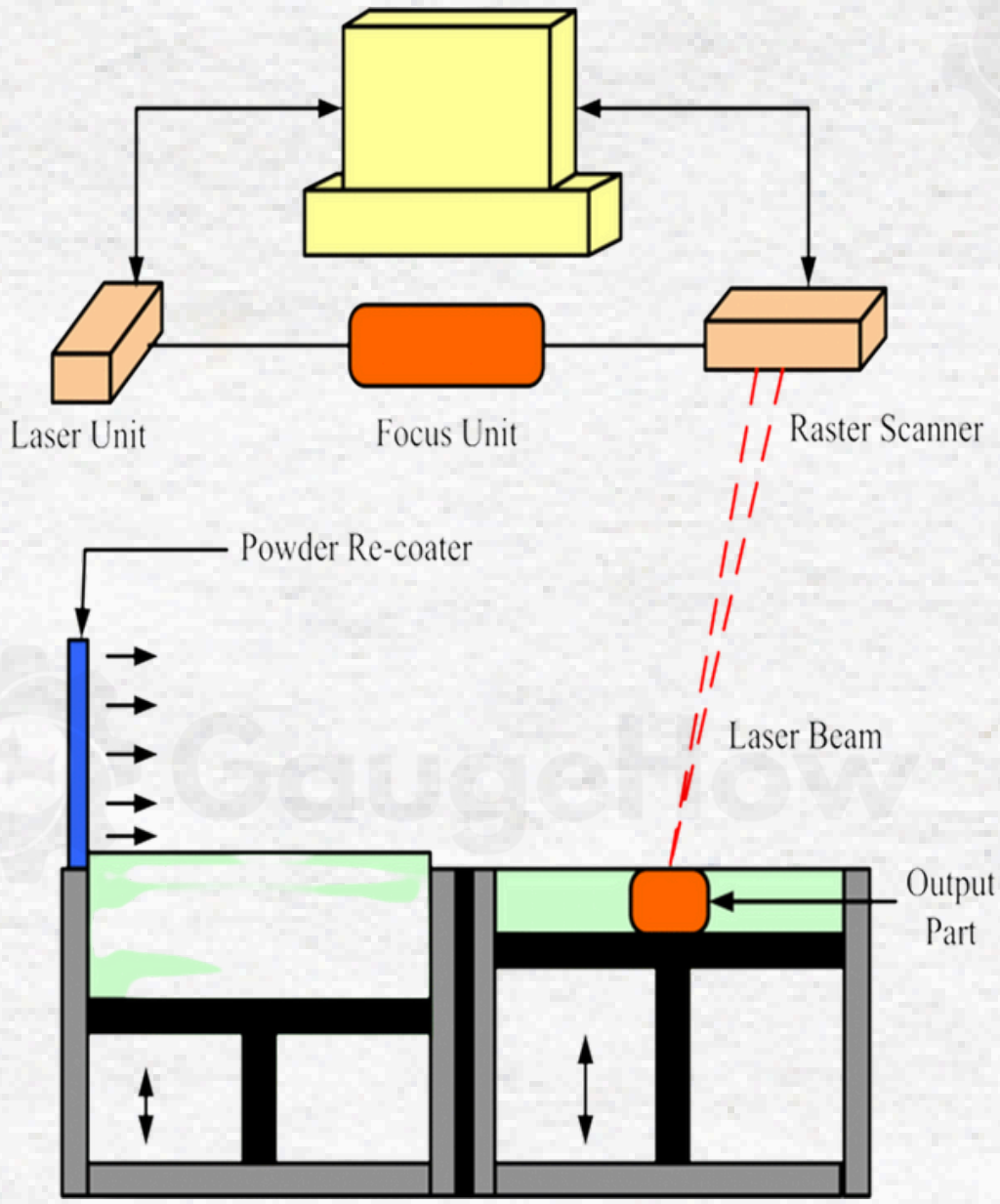
Image:https://www.researchgate.net/figure/Schematic-diagram-of-DMLS-process_fig8_334504563



Direct Metal Laser Sintering (DMLS)

Direct Metal Laser Sintering (DMLS) is an additive manufacturing (3D printing) process that builds complex metal parts by fusing fine metal powder with a high-wattage laser, layer by layer, based on a digital CAD model.

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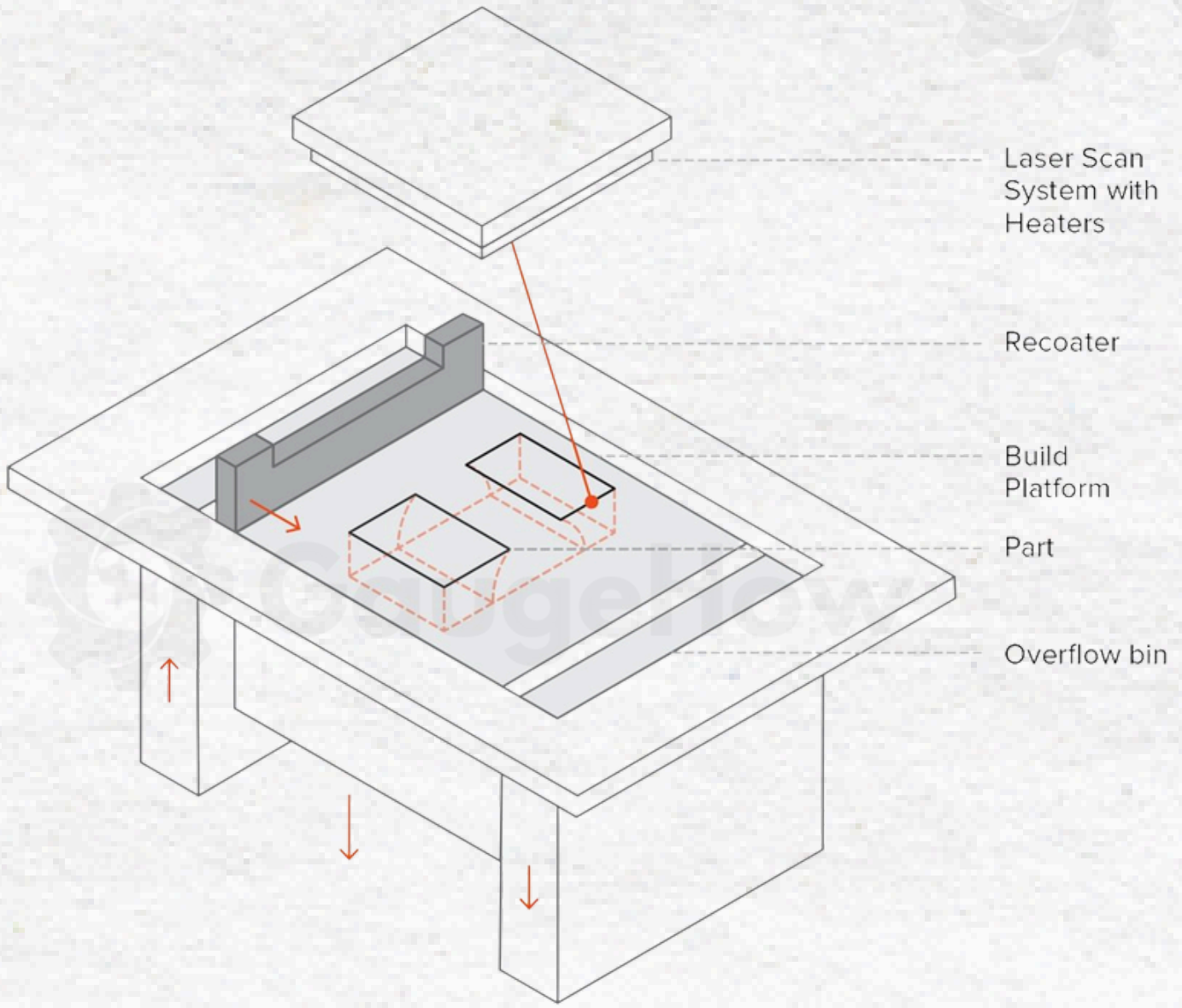
image::https://www.hubs.com/knowledge-base/introduction-metal-3d-printing/



Metal 3D Printing (SLM & DMLS)

Layers of metal powder are fused by a high-power laser in an inert gas chamber. Parts are built with supports to prevent warping, then cooled, stress-relieved, and removed from the build plate for use or post-processing.

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Fusion 360
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CATIA V5

CATIA V5
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Ansys

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Autodesk Powerinspect 2022

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Digital Twins
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Basics of Digital Manufacturing
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Material Informatics
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FreeCAD
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