LARGE SCALE ADDITIVE MANUFACTURING

AMEC is a new hybrid process that combines the best of polymer extrusion printing with lost foam investment casting.

The general consensus is that you can have small, precise metal additive manufacturing OR you can have large scale additive with significant post process machining. Most people think you have to choose one or the other.

At Skuld, we say, “Why not have BOTH?”

With AMEC, you can have accurate net shape parts with up to 0.3% accuracy AND large-scale parts.

AMEC’s size limitations do not depend on the envelope of the 3D printer because prints can be joined prior to the ceramic coating step. The steel stomp grate case study was made of 5 separate prints.

The upper limit of the process is only limited by the size of the melt furnace available.

Case Study

This 1030 steel stomp grate for the boating industry was produced as a prototype. These capabilities would not be feasible in other processes:

- No tooling
- 12 hours
- Net shape, no post process CNC machining
- 85 pounds
- 26 inches long
- Fins 0.125 inch thick by 2x19
- 7.08 pound per hour volume rate demonstrated so far

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