THE UNIVERSITY OF MAINE

LARGE SCALE ADDITIVE MANUFACTURING

THE WORLD'S LARGEST THERMOPLASTIC 3D PRINTER

Key Capabilities

Dimensions: 60' (18.3m) long - expandable to 100' (30.5m), 22' (6.7m) wide, and 10' (3m) tall.

Output: 150lbs (86kg)/hour output, expandable to 500lbs (227kg)/hour.

Processing: Can process thermoplastics up to 380C/716F. The 5-axis machine head has additive and subtractive capabilities.

The Advanced Structures and Composites Center is uniquely positioned to make significant advances in the area of additive manufacturing with active research programs in developing bio-based, recyclable, next-generation materials conducive to large-scale 3D printing. The University of Maine holds 3 Guinness World Records, 1. the world's largest polymer 3D printer, 2. the world's largest 3D printed boat, and 3. the world's largest 3D printed object. The boat, 3Dirigo, was printed in 72 hours and weighs 5,000 lbs (2,268kg).

The UMaine Composites Center is an ISO 17025 accredited 100,000 ft^2 testing laboratory with nearly 20 years of testing experience meeting industry standards from coupon-scale to full-scale up to 1,000,000 pounds.

WORLD CLASS TEAM

University of Maine faculty, engineers and technicians specializing in additive manufacturing, structural engineering, material sciences, mechanical engineering and more.

For more information, contact:
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