

ReCap 360 Success Story

COMPANY

MegaBots

LOCATION

California, United States

SOFTWARE

Autodesk® ReCap 360 Pro
Autodesk Fusion 360

WEBSITE

<https://www.megabots.com/>

“Autodesk ReCap allowed us to quickly create a custom-fabricated weldment to attach used track assemblies with no dimensional drawings to our platform. The program reduced our modeling time from a week to a day, and only took a day of work to set up.”

— **Gui Cavalcanti**
CEO, MegaBots

The Future of Sports - Giant Fighting Robots.



Image courtesy of MegaBots

Introduction

MegaBots, Inc., uses cutting-edge robotics technology to create the giant piloted fighting robots of science fiction, videogames and movies. These robots fight in epic-scale arena combat the likes of which the world has never seen before. To build our original MegaBot, the Mk.II, we used 3D laser scanning technology to get an accurate structural layout of hard-to-measure parts, allowing us to speed up our design process by a week or two.

Technology Used

- * Z+F 5010C 3D Laser Scanner, Sony Nex 5R Camera
- * Autodesk Fusion 360, Autodesk ReCap 360 Pro, Autodesk ReCap 360 Photo

Processing Steps:

- * Acquired 10 laser scans and 150 images
Autodesk ReCap reality capture processing for accurate 3d model delivery
- * Engineering new parts in Fusion 360 based on scan measurements

Results

- * Generated millimeter-accurate 3d models that allowed us to create interlocking custom-fabricated parts for pre-fabricated, used assemblies that had no available dimensional data
- * On-site scanning and reality capture data processing took only one day of work
- * Reduced modeling time from a week to a day or two