

Powermill Training Collaboration

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Introduction

- EWI's metal DED capabilities in both Columbus and Buffalo offer unique resource for robotic Powermill DED training and application development.
 - Current Autodesk training partners lack robotic DED facilities and process expertise
- EWI is launching an Autodesk Authorized Training Center (ATC)
 - Collaborating with DSI, Autodesk's authorized partner and leader in Powermill software, post-processor development, training, and application services
 - Offer both Basic and Advanced Powermill DED AM seminars
 - Tailor seminar & hand-on workshops for unique facilities in Columbus (robotic Arc and Laser DED) and Buffalo (CNC electron beam (EBAM) and laser DED (RPM))

Background

- Robotic DED processes are an emerging area for metal AM.
 - Very few robot companies have DED AM capabilities
 - Industries need “digital data workflow” competencies for robotic DED and other metal AM processes
- For the NSRP RA Project – Robotic Arc DED AM for Shipbuilding, Autodesk’s Powermill was selected the preferred robotic CAM software based on features, large base of Autodesk software users, and demonstrated capabilities.
- Autodesk’s Powermill Ultimate provides full range of subtractive (machining), and CNC and robotic DED AM tools
 - Robot-agnostic post-processor capabilities that are compatible with most commercial robotic systems.

EWI's Advantage

- EWI's Authorized Training Centers will be able to provide:
 - Access to large scale DED equipment (Sciaky) and a broad range of robotic DED test beds.
 - In house application expertise
 - Largest robotic gantry DED test-bed in North America for development
 - Hands-on training exercises that can be tailored for client's systems
 - Classroom instruction by leaders in Autodesk Powermill software, post-processor development, training, and application services

Fanuc - Fronius & SBI
(CMT/GMA-P & Plasma)



Navus ABB Gantry
(Multi-process DED)



Motoman - Fronius
CMT/GMA-P/GMA



Fanuc - Lincoln
GMA-P/GMA/TW-GMA



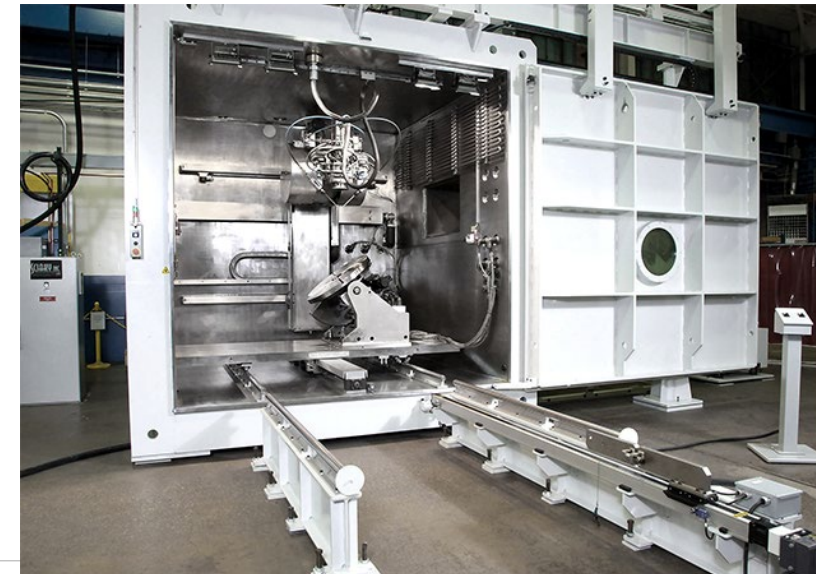
OTC-Daihen
SyncroFeed



OTC-Daihen
GMA-P/GMA



Cloos
Motion / GMA-P & T-GMA



Sciaky's EBAM 110 System

EWI ATC Summary

- EWI has partnered with DSI to help deliver world class Autodesk Trainings to individuals across the country
- The goal is to bring hands-on PowerMill training to industry
 - Train next generation of engineers and technicians with powerful tools to help implement and grow additive manufacturing techniques.
- First trainings will be in Columbus where hands-on labs / workshops will be offered leveraging the robotic DED capabilities.
 - Buffalo facility will come online Q4 2021 and will leverage EWIs large scale DED capabilities
 - Complementing Autodesk trainings will follow in Q1 2022

Thank you for your time.

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Training

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