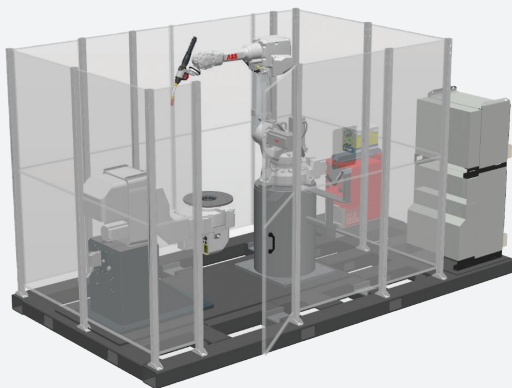


ABB Wire Arc Additive Manufacturing (WAAM) STEM Education Cell



01
2000kg, 2m3 build area
WAAM cell concept

Features and Benefits

- Ability to 3D print large metal parts
- Provides outstanding performance by utilizing:
 - ABB's superior path performance and Absolute Accuracy calibration
 - Robot's close motion coordination with an external axis
 - Seamless integration with the robot controller and the Fronius welding equipment
 - Unmatched capability of RobotStudio and PowerPacs (Arcware PowerPac works seamlessly with the 3D Printing PowerPac)
- Has built-in path performance of the robot arm and a positioner
- Pre-engineered cells are more cost-effective and allow the user to solely focus on welding and making parts right away without worrying about equipment integration and safety

Standard Cell Specifications

- Small footprint ABB FlexArc™ type system with pallet and complete safety cell
- ABB IRB 2600 with Absolute Accuracy calibration (ABSACC)
- Choice of ABB's IRBP 250A, 500A or 750A 2-axis work-holding positioner

ABB's Wire Arc Additive Manufacturing (WAAM) STEM Education Cell makes it easy to begin 3D printing in metal using MIG, TIG or Plasma.

This pre-engineered cell offers safety, flexibility, and exceptional performance allowing the user to begin creating new designs or manufacturing specialized parts.

- Fronius welding equipment, TPS 400i CMT GMAW for aluminum and steel (changeover) and other alloys, GTAW with cold wire feed, and soft plasma
- RobotStudio with ArcWare PowerPac & 3D Printing PowerPac (requires 3rd party slicing software)

Standard Cell Dimensions

Approximately 8' height X 14' length X 7.5' width

Additional Cell Options

Larger robots with bigger envelope/build areas and higher payload positioners are available and can be tailored to suit the customer's needs.

RobotStudio

ABB donates 100 Premium RobotStudio licenses with access to all PowerPacs to schools to help drive technology.

RobotStudio 3D Printing PowerPac Benefits

- Allows simple CAD to print process
- Generates RAPID robot code from G-code
- No manual RAPID programming needed
- No limit of number of coordinate points equals no limit of product size
- Simulate printing in RobotStudio



Scan the QR code shown to join our academic network:

- Learn more about development and product updates
- Participate in discussions on market trends
- Share projects your school is working on using ABB robots
- And more!

Click here to view the education website:
<https://new.abb.com/products/robotics/service/training/abbstemusa>

ABB Ltd.
For more information about our
program please contact: Karin Polasek
Inside Sales Representative
Email: Karin.G.Polasek@us.abb.com
Call: +1 248-391-8683

abb.com/robotics

We reserve the right to make technical
changes or modify the contents of this
document without prior notice. With regard
to purchase orders, the agreed particulars
shall prevail. ABB AG does not accept any
responsibility whatsoever for potential
errors or possible lack of information in
this document.

We reserve all rights in this document and
in the subject matter and illustrations
contained therein. Any reproduction,
disclosure to third parties or utilization
of its contents – in whole or in parts – is
forbidden without prior written consent
of ABB AG. Copyright© 2022 ABB.
All rights reserved.