ABB’s Wire Arc Additive Manufacturing (WAAM) 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.

**ABB WAAM Cell 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

- 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 3D Printing PowerPac Benefits**

- ABB donation of 100-seat network license of RobotStudio ($150k value) 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!