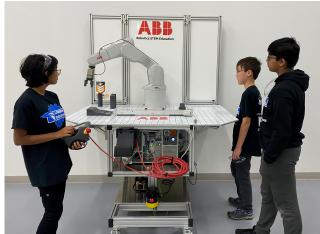


DATASHEET

# Industrial Robot STEM Education Cell for Material Handling





ABB's Industrial Robot STEM
Education cell for Material
Handling is a portable preengineered robot cell
specifically designed for robotic
training purposes. The cell is
suitable for training in a
classroom, and is ideal for
technical training at universities,
trade schools, and workforce
development organizations.

### **Features and Benefits**

- Compatible with IRB 1100 and IRB 1200 robots
- The fenceless FlexTrainer cart provides open site lines to the robot while safety is maintained via integrated safety laser scanner
- The Controller provides power, accuracy, and motion control
- Tabletop allows users to attach/detach work parts
- ABB STEM Education Activity Tabletop is detachable and includes many activities for students to learn from
- Storage hooks on the back of the cell for the STEM Education Activity Tabletop when not in use
- Nice large wheels and folding wings allow the cart to fit through standard doorways and can be easily moved around
- ABB donates 100 Premium RobotStudio licenses with access to all PowerPacs to schools to help drive technology
- Cells are available in a virtual computer format as identical replicas of the real cell. With RobotStudio software, it can be programmed off-line on a personal computer

# **Additional Options**

- Electric Gripper
- ABB 3D Printed STEM Education Activity Kit (wave plate, dice, blocks)
- Globally Recognized STEM Certification with course materials for teachers and students
- · Integrated vision system
- · Conveyor system
- B&R Touchscreen HMI
  - View I/O statuses
  - View robot statuses
  - Display and view curriculum materials, PDFs, manuals, and more



Scan the QR code to view our education website.

### Specifications for the IRB 1100



Robot version	Reach (m)	Payload (kg)	Armload (kg)
IRB 1100-4/0.475	0.475	4	0.5
IRB 1100-4/0.58	0.58	4	0.5
Number of axes			6
Protection	Standard IP40, Option IP67		
Mounting	Any angle		
Controller	OmniCore C30/ C90XT		
Integrated signal and power supply		8 signal	s on wrists¹
Integrated air supply	4 air on wrist (max. 6 Bar)¹		
Integrated ethernet	1 Gbit/s port¹		

<sup>&</sup>lt;sup>1</sup> Optional

# Specifications for the IRB 1200



Robot version	Reach (m)	Payload (kg)	Armload (kg)
IRB 1200-7/0.7	0.7	7	0.3
IRB 1200-5/0.9	0.9	5	0.3
Number of axes			6
Protection	Standard robot IP40 or IP67, Foundry Plus 2 based on IP67, Food Grade Lubricant and Clean Room (ISO class 3) base on IP67		
Mounting			Any angle
Controller	IRC5 Compact/ IRC5 Single Cabinet		
Integrated signal and power supply		10 signa	lls on wrists
Integrated air supply	4 air on wrist (5 Bar)		
Integrated ethernet	One 100/10 Base-TX enthernet port		