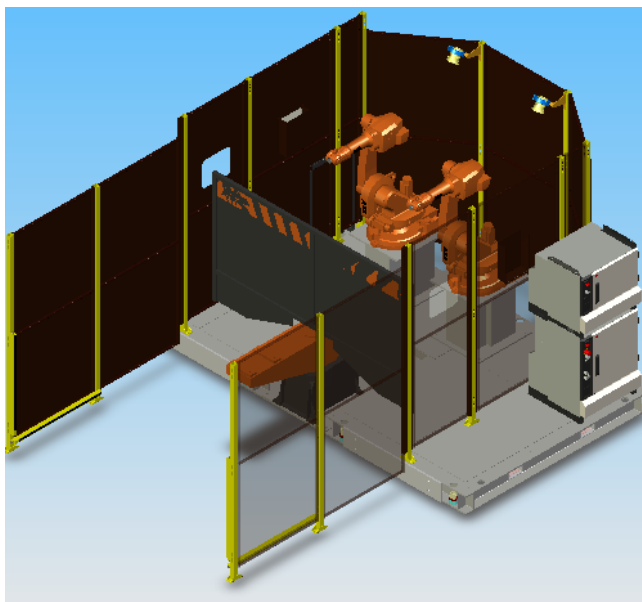




FlexArc[®] 500C MultiMove[™] Cell

Main Applications: Arc Welding



A complete range of fully integrated, standardized welding cells

FlexArc robotic welding cells are complete robot systems available in several flexible and versatile, standard modular packages. The cells are delivered ready to weld.

The 500C/1000C cell features:

- Two IRB 1600 or 2400L robots equipped with IRC 5 controller
- 180° index positioner (500C or 1000C)
- Perimeter guarding which complies with ANSI/RIA 15.06/1999
- Man/Machine (HMI) Interface
- Welding power supply
- Robotic welding torch (air cooled or water cooled)
- Robotic torch cleaner/ dresser
- Metal mounting base (transportable with fork lift pockets)
- Operator present sensing device
- Cables are completely integrated into base of the cell
- Cell door interlock device
- Optional fume extractor

Composed entirely of modular equipment, FlexArc production cells can be used independently or combined together to form mini-assembly zones, an assembly line or a complete workshop.

IRC 5 Robot Controller and FlexPendant[™]

The IRC 5 is ABB's fifth generation robot controller and it has set new standards with its modular concept and with its teach pendant unit. The modularity of the IRC 5 is a major step forward in robot controls with a logical split of functions

into control and axis drive cabinets. Each module is housed in its own cabinet with an identical footprint so they may be stacked up to 3 on the mounting base for minimal floor usage. The IRC 5 has the ability to control multiple robots with the potential to reduce costs, improve quality, increase productivity and expand robot applications.

The FlexPendant is world class with its intuitive windows layout and color touch-screen operation.

Flexibility, Reusability and High Productivity

If your new production parts are modified, added or specifications change, fixtures can be changed or modified on one station or both. The robot can either weld new or different parts and maintain maximum flexibility of the cell.

Each of ABB's FlexArc Cells is available in a virtual computer format as identical replicas of the real cell in RobotStudio software and can be programmed offline on a personal computer.

FlexArc cells are standard, pre-engineered solutions designed to permit quick, efficient set-up so you are running production in minutes instead of days.

FlexArc cells have produced millions of parts since their introduction and are industry accepted and proven solutions.

From simple, modularized cells with one or two positioners to complete systems, ABB has a standard package to fit every need or ABB will customize cells or systems to meet your manufacturing requirements.





FlexArc[®] 500C MultiMove

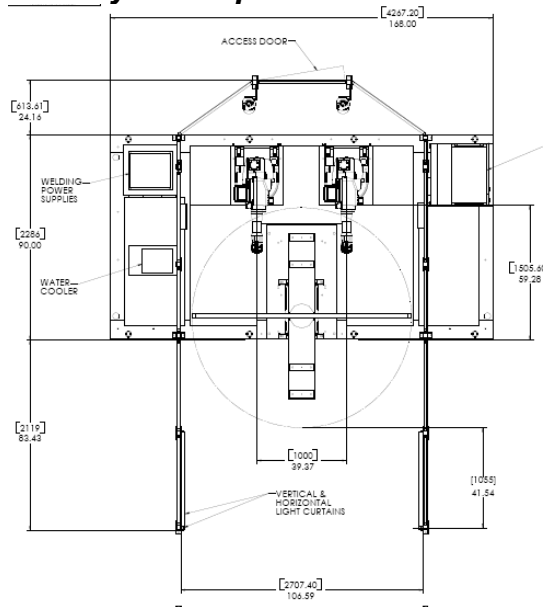
Technical Data

Specifications	500C
Handling capacity Per Side (Station)	500 Kg/1102 lb.
Max Inertia	880 Kgm2
Max Bending torque	5000 Nm
Min interchange time	3.3 seconds
Max interchange time	4 seconds
Repeatability (r=500)	0.1 mm
Max load diff	350 kg/770 lb.
Max tool length (From center)	1250 mm
Optional Equipment:	BullsEye™, SmarTac™, Fume hood (including lighting), Thru-Arc Seam Tracking, RobotStudio™ Offline Programming Software, Virtual FlexArc Software, Wire Cutter
Cell Dimension Total plant Floor Foot print	Length (188.5" / 4790mm) X Width (168" / 4267mm)

500C Indexes 180 Degrees



Cell Layout: Top View



Typical production cycle description:

Operator unloads and loads one fixture while the robot welds on the second fixture. When both the operator and robots have completed their operations, the positioner indexes and cycle starts again.