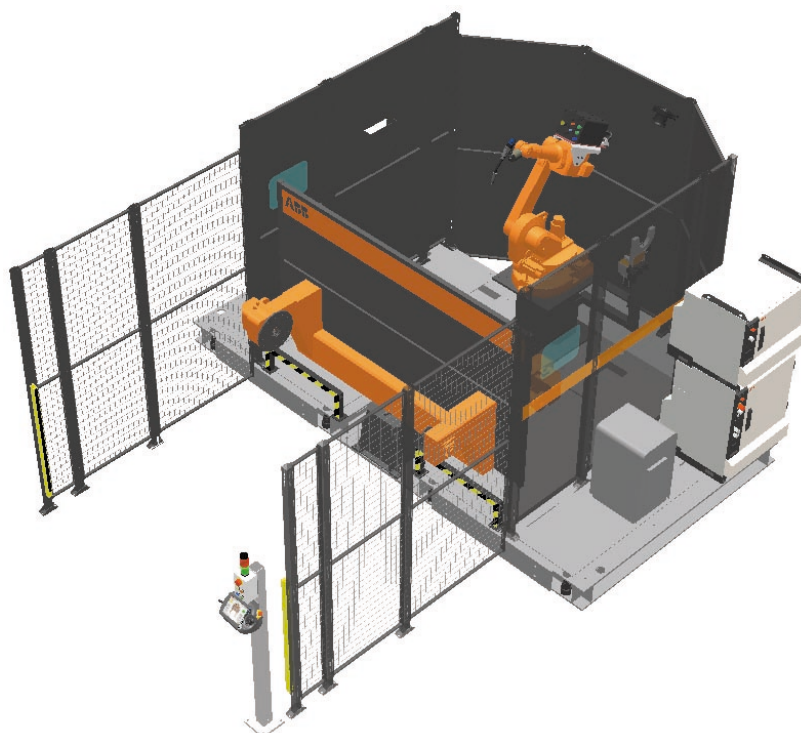


FlexArc® 250R Cell

Global Arc Welding Production Solution



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.

Flexibility

If new 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 are available in virtual format as identical replicas of the actual in Robot-

Studio and can be programmed offline on a personal computer.

Based on our marginal production solutions ABB has standard versions to meet your needs.

Reusability

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

High Productivity

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® 250R Cell

Global Arc Welding Production Solution

TECHNICAL DATA

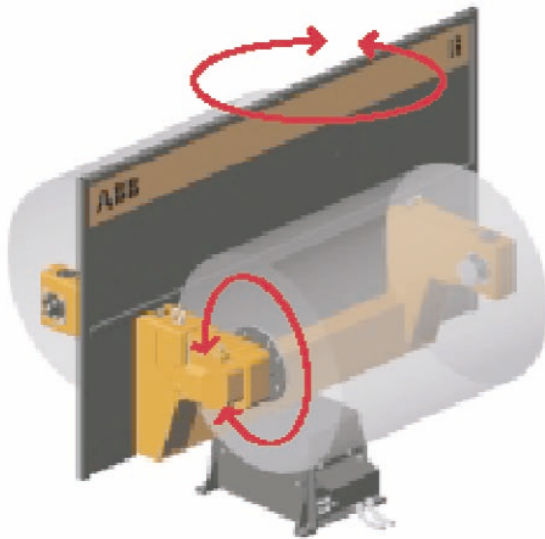
THE 250RCELL FEATURES

One or two IRB 1600 or 2400 robots equipped with IRC 5 controller
 180° index positioner 250R
 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 the base of the cell
 Cell door interlock device

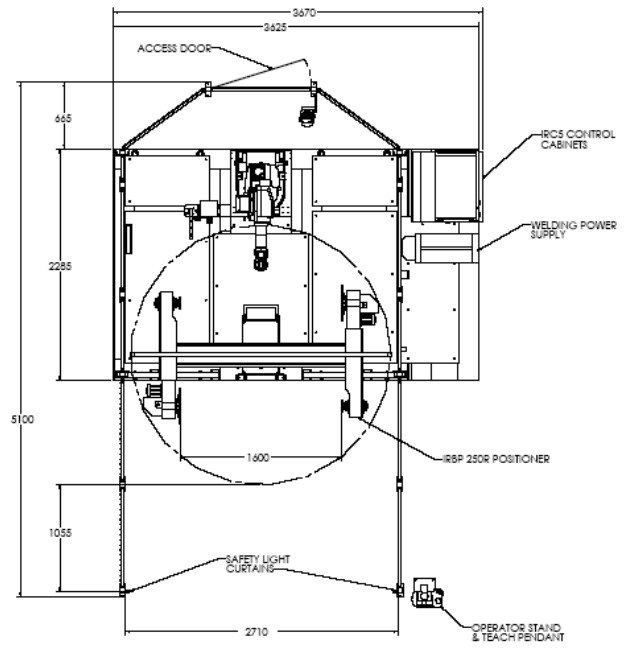
SPECIFICATION

Handling capacity Per Side (Station)	250 Kg./551 Lb
Max Fixture Diameter Per side (Station)	1M./39.36 Inches
Max Fixture length Per side (Station)	1.6M/ 62.99 Inches
Max Inertia	40 Kg ^m 2
Max Bending torque	650 Nm
Max Speed	30 Rpm
Min interchange time	3.3 seconds
Max interchange time	4 seconds
Max load diff	150 kg/330 lbs.
Optional Equipment	Torch Service Center Incl. BullsEye™, SmarTac™, Fume Hood (incl. lighting), Thru-Arc Seam Tracking, Offline Programming Software, Virtual FlexArc™

250R INDEXES 180 DEGREES WITH HEAD TAIL STOCK ROTATION



CELL LAYOUT



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 the cycle starts again. It can produce either 2 identical parts or 2 different parts of type A and type B.