

PRE-ENGINEERED **SYSTEMS OVERVIEW**



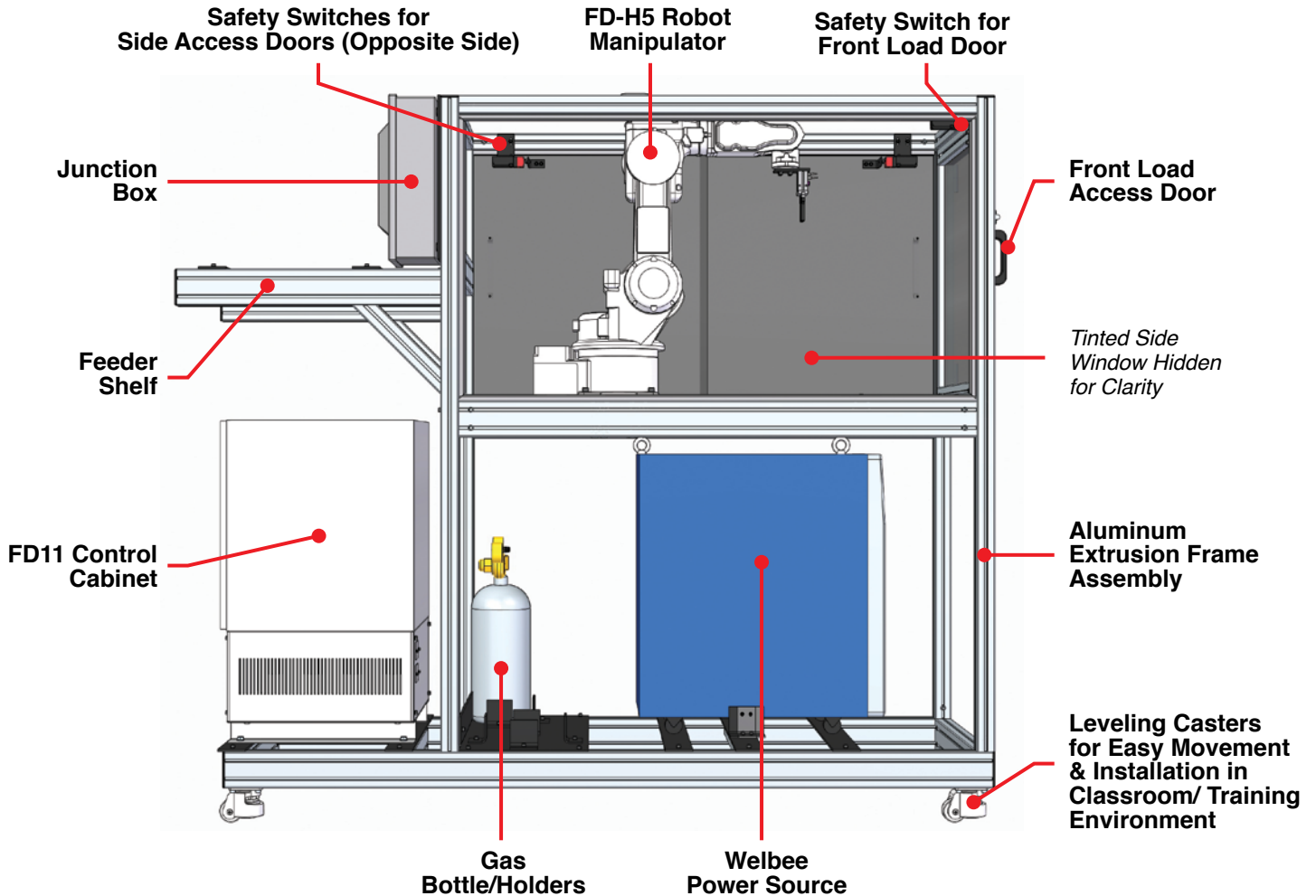
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ED-ARC 100

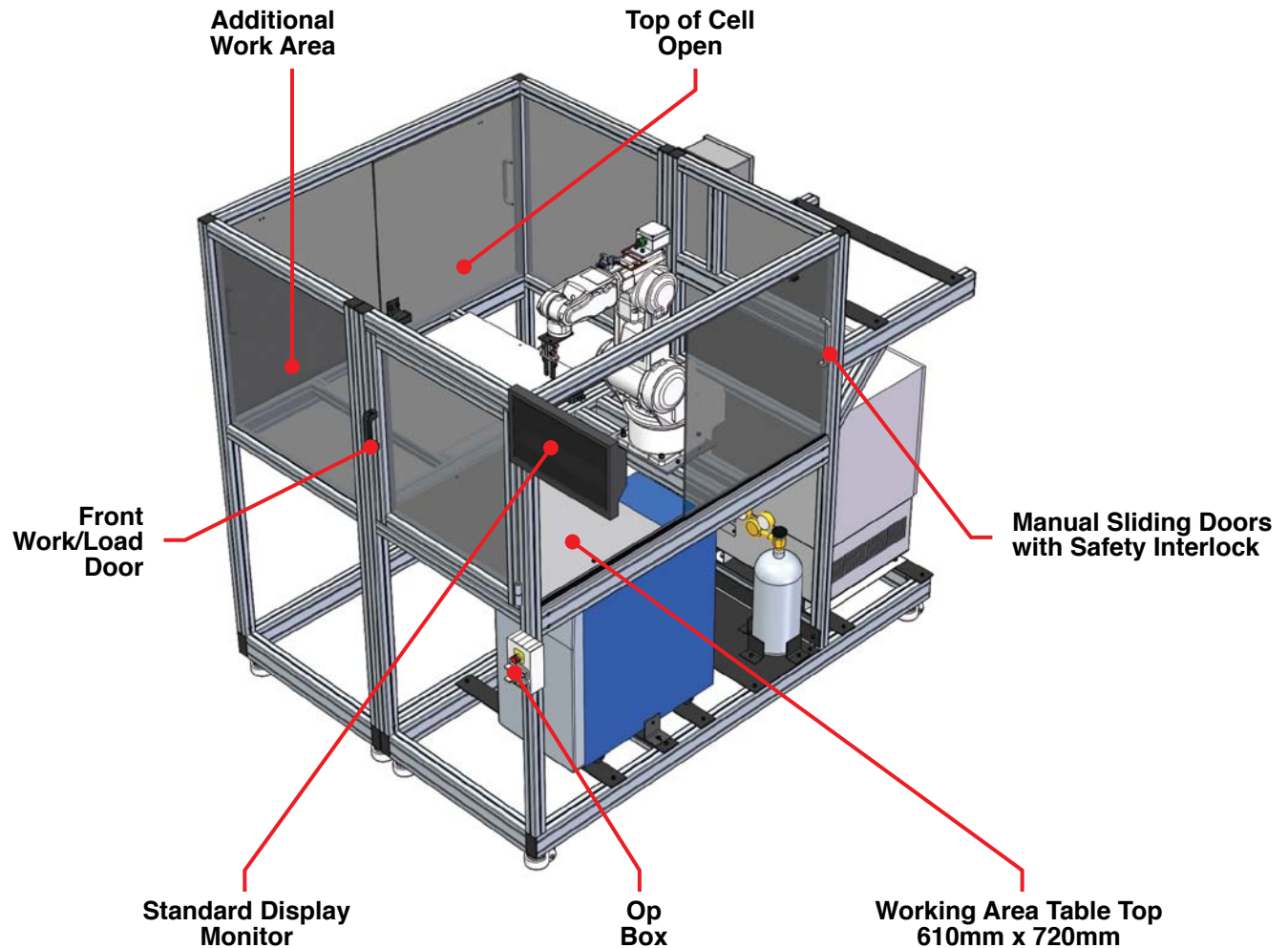


Standard Option:

ED-ARC 100 – Mobile, fully enclosed arc welding training station with compact robot manipulator (FD-H5)

Details:

- Lightweight aluminum frame and polycarbonate arc flash enclosure
- Flat table top surface with 610mm x 720mm work area
- Height of work area 1177mm
- Maximum payload: 250kg
- Leveling casters for stable installation/easy movement when needed
- Weight – Approx. 550kg
- Front load access door with tinted window with safety interlock
- Side access door with tinted window for load/maintenance with safety interlock
- Tinted Panels provide better light in work area for training visibility and operator safety
- Shelf mounted welding power source
- Standard Display Monitor



Specifications:

Footprint Dimensions:

Width: 820mm (32.3")
 Height: 2014mm (79.3")
 Depth: 2230mm (87.8")

Manipulator Type:

- FD-H5



FD-H5

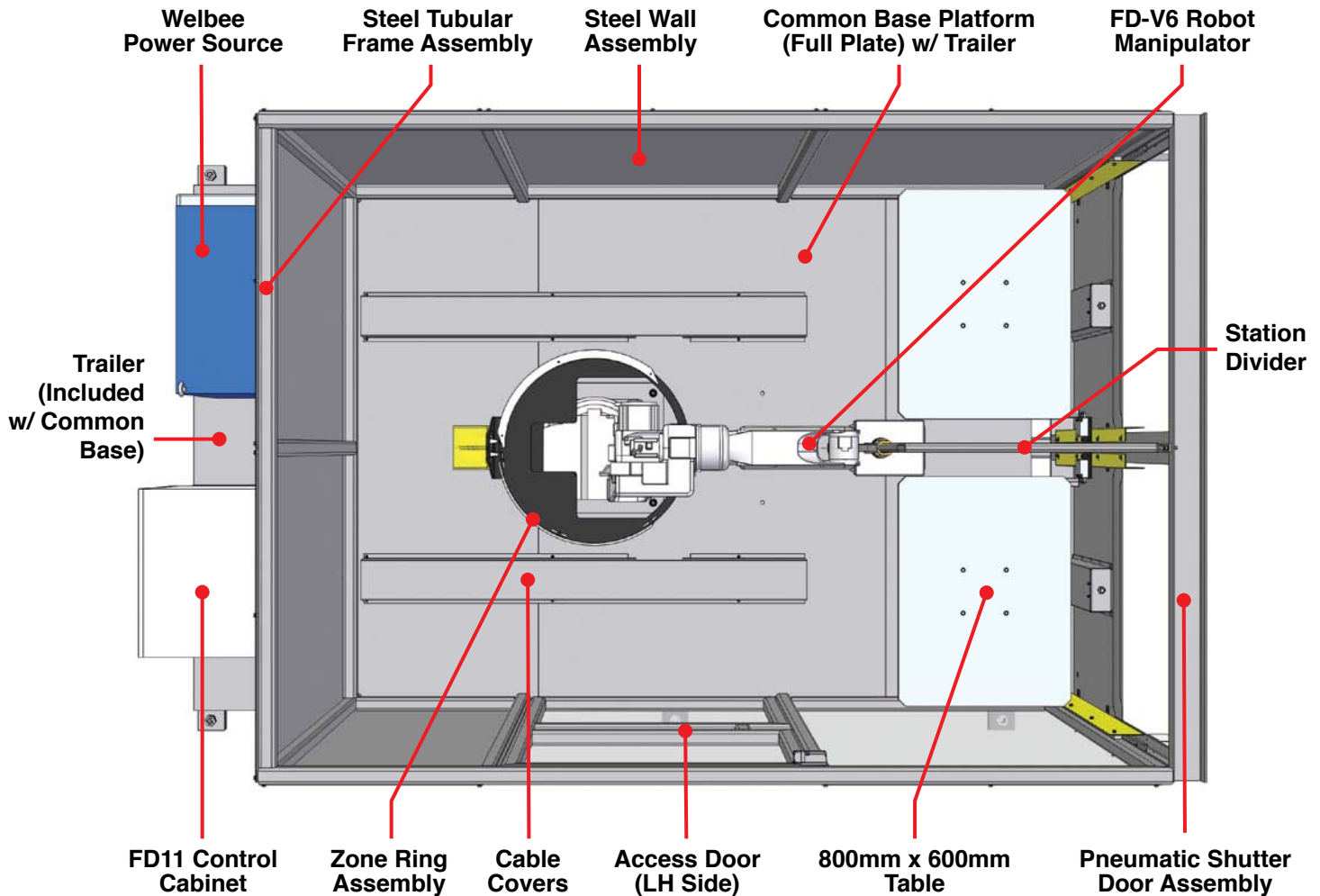
Available I/O Slots:

32 Inputs/32 Outputs
 (Additional Power Supply needed for Outputs)

Additional Options:

- Optional Additional Work Area
 - Adds additional space by adding to the extruded frame and removing the long side panel without sliding doors
 - May require adding a zone kit for station designation

ECO-ARC 200



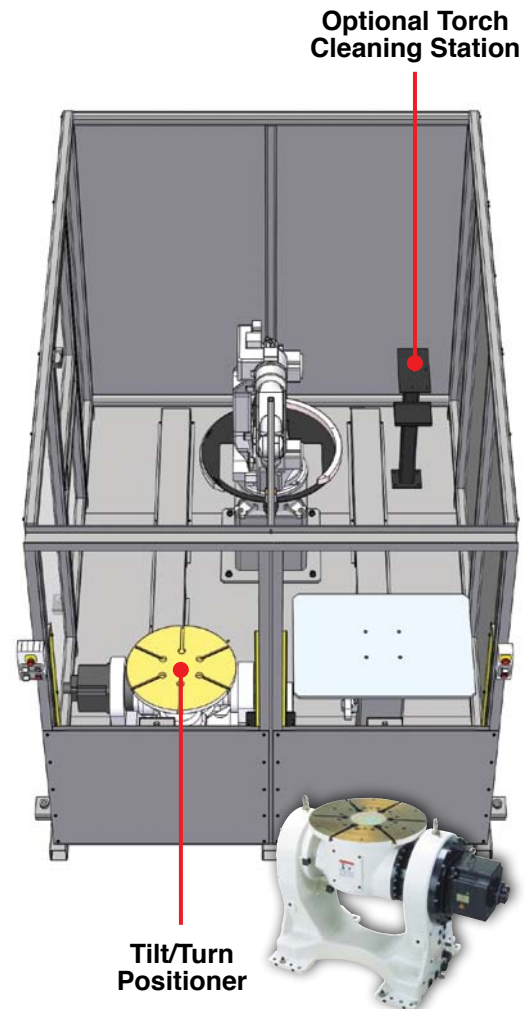
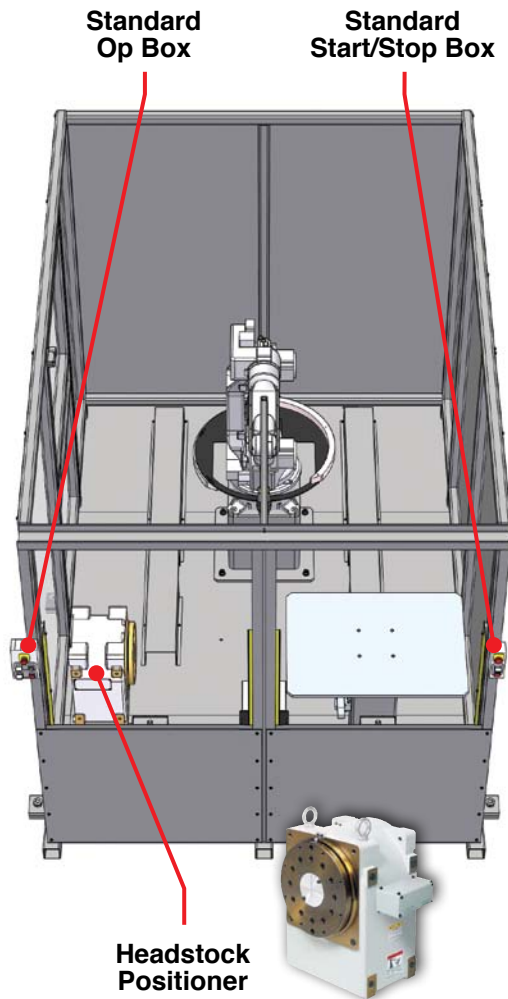
Standard Option:

ECO-ARC 200 – 2 stationary tables with standard robot manipulator (FD-V6)

- Tabletop Dimensions: 800mm x 600mm
- Weight – Approx. 2000kg

Details:

- Pneumatic shutter doors
- Zone Ring for station designation
- Standard fork lift pockets in base for easy movement
- Steel wall station divider



Specifications:

Footprint Dimensions:

Width: 2194mm (86.4")
 Height: 2158mm (85.0")
 Depth: 3430mm (135.0")

Manipulator Types:

• FD-V6 • FD-B4

Cell Options:

• 2 Stationary Tables
 • Positioner/Table
 • 2 Positioners

Headstock Options:

• A2PB-250 • A2PB-500 • A2PB-1000



Tilt/Turn Options:

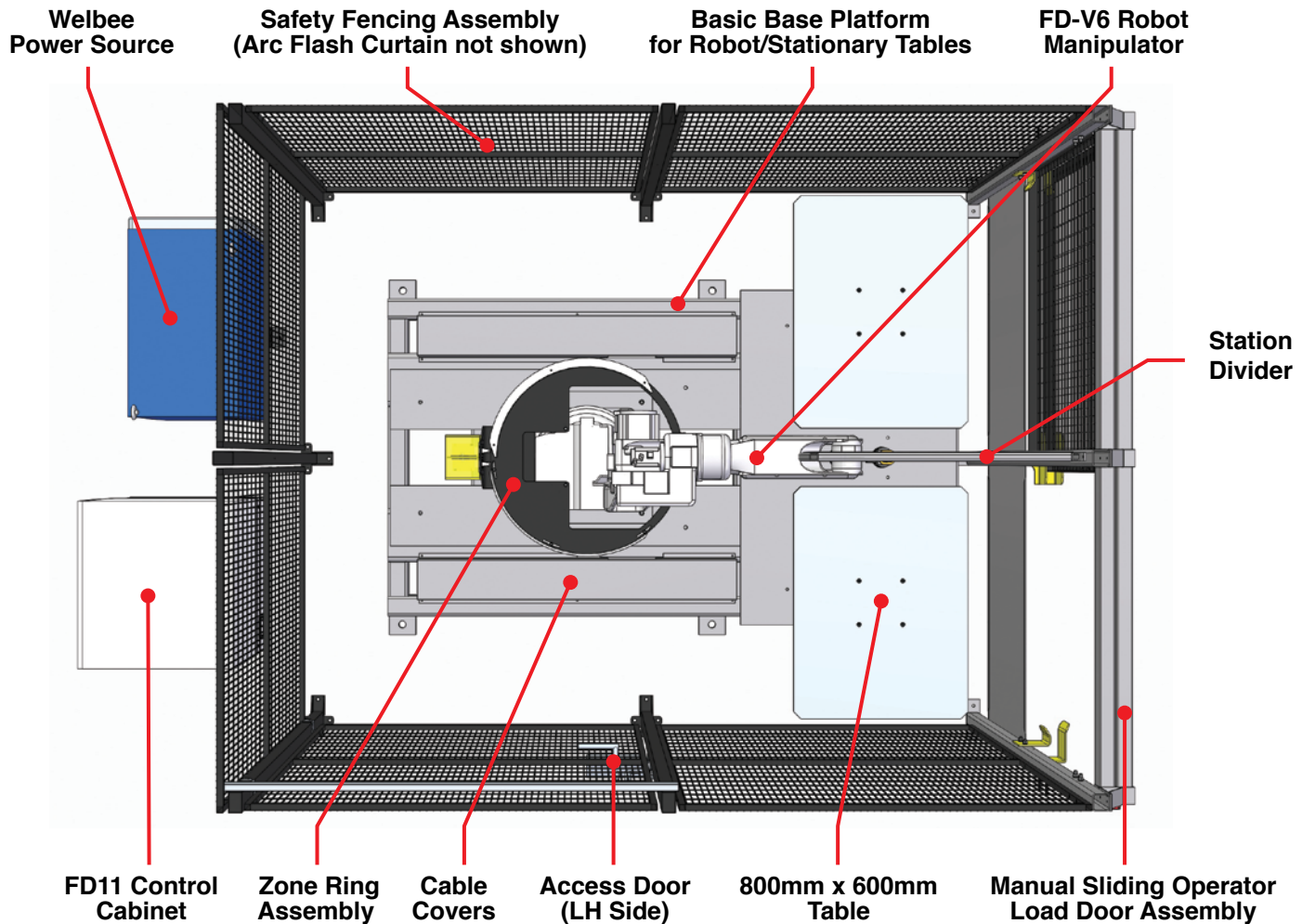
• A2PF-300 • A2PF-500 • A2PF-1000

Available I/O Slots: 28 Inputs/26 Outputs
 (Additional Power Supply needed for Outputs)

Other Options:

- Basic Base Design (ECO-ARC 200B)
- Safety Fencing on Floor
- Safety Fencing on Full Base
- Access Door on RH Side
- Manual Sliding Door Assembly
- Station Lighting
- Torch Cleaning Station
- Fixture Mounting Pattern in Table Top
- Extended I/O

ECO-ARC 200B



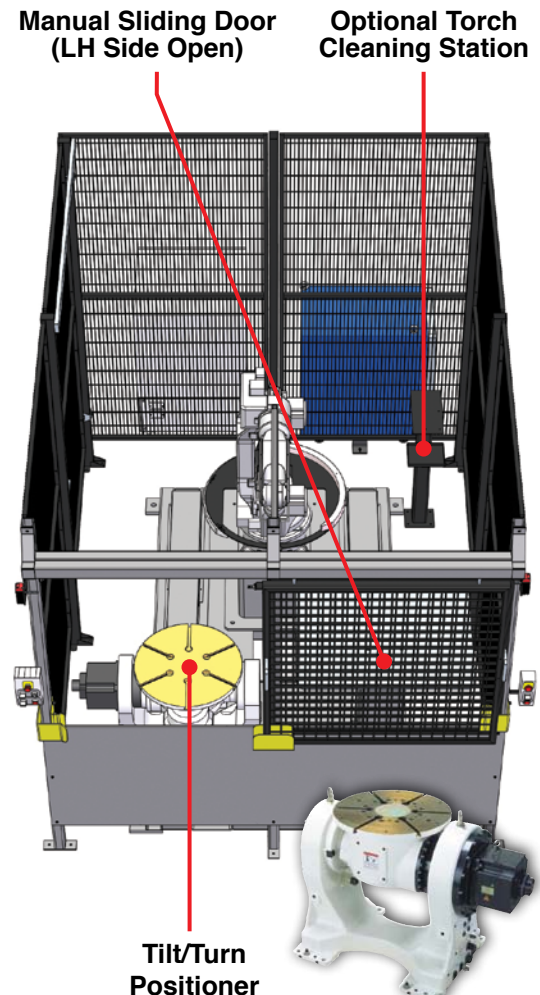
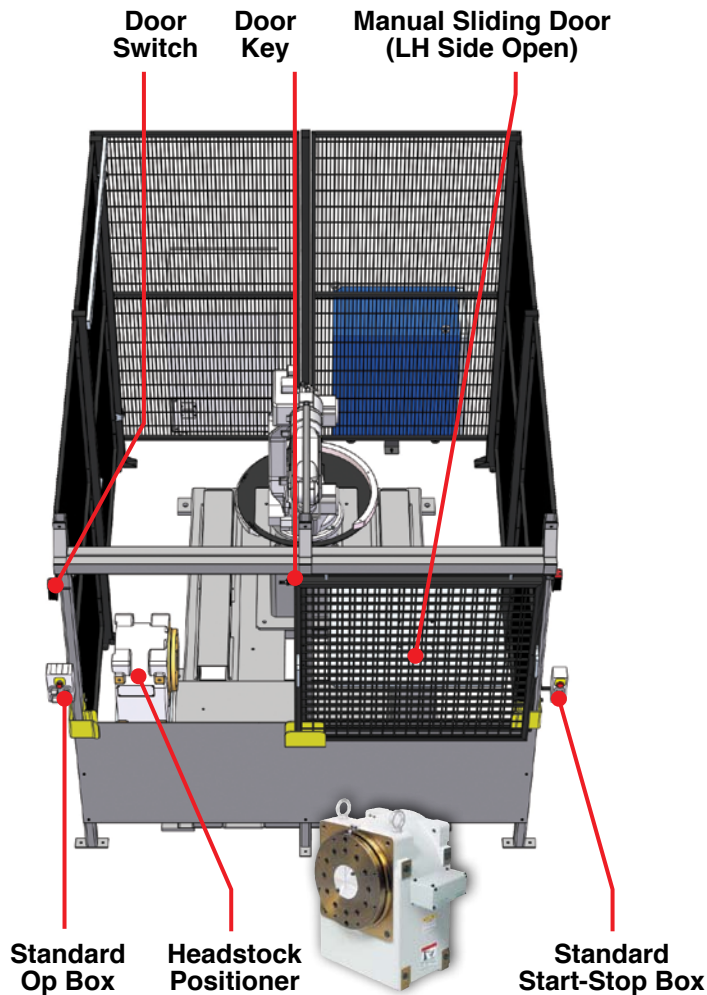
Standard Option:

ECO-ARC 200B – 2 stationary tables with standard robot manipulator (FD-V6)

Details:

- Manual sliding operator load doors
- Zone Ring for station designation
- Standard fork lift pockets in base for easy movement
- Steel wall station divider

- Tabletop Dimensions: 800mm x 600mm
- Weight – Approx. 1500kg
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

Width: 2140mm (84.2")
Height: 2200mm (86.6")
Depth: 3420mm (134.6")

Manipulator Types:

- FD-V6
- FD-B4

Cell Options:

- 2 Stationary Tables
- Positioner/Table
- 2 Positioners

Headstock Options:

- A2PB-250
- A2PB-500
- A2PB-1000



Tilt/Turn Options:

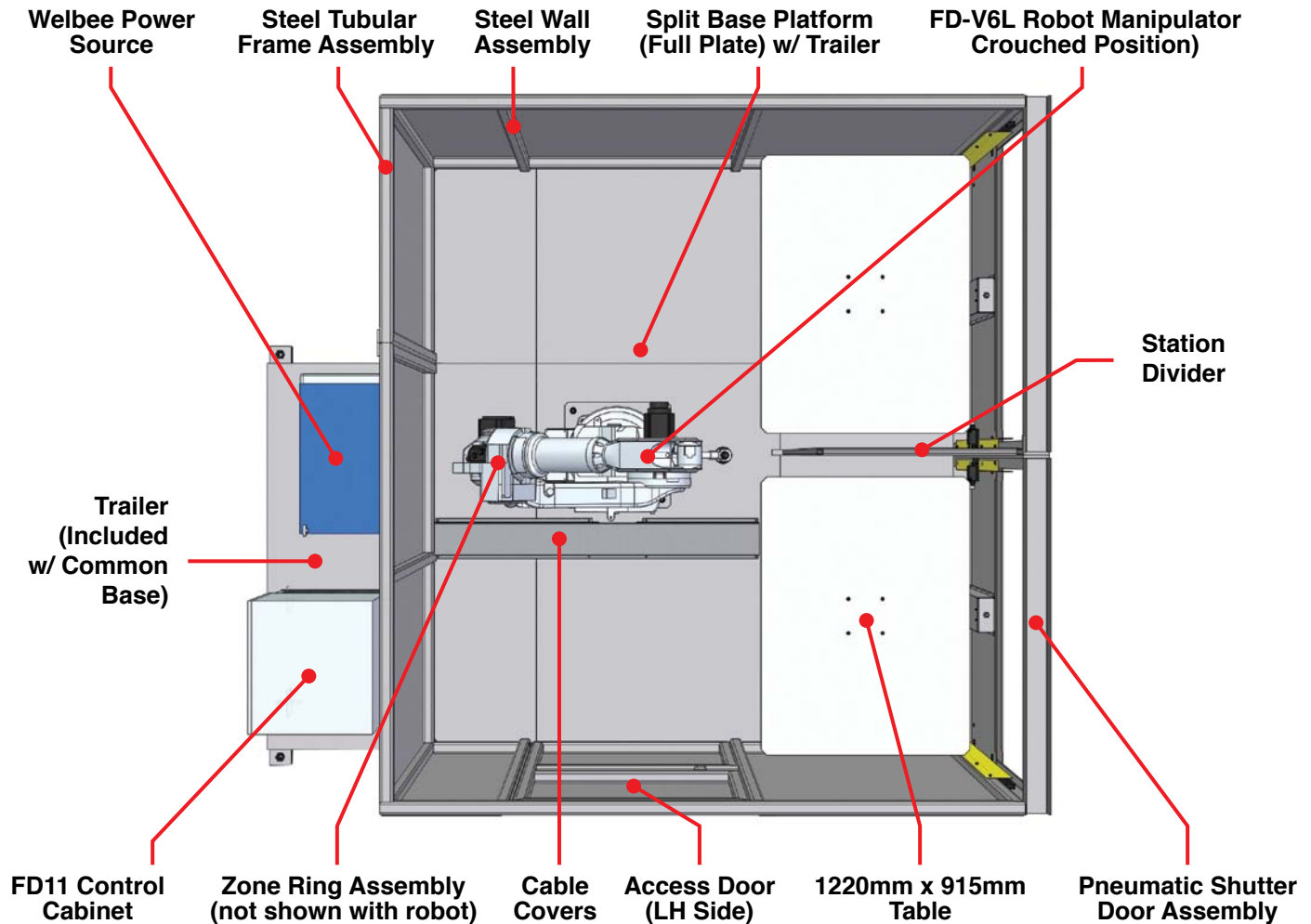
- A2PF-300
- A2PF-500
- A2PF-1000

Available I/O Slots: 28 Inputs/26 Outputs
(Additional Power Supply needed for Outputs)

Other Options:

- Full Base Design (ECO-ARC 200)
- Mesh Fencing on Full Base
- Access Door on RH Side
- Pneumatic Shutter Door Assembly
- Station Lighting
- Torch Cleaning Station
- Fixture Mounting Pattern in Table Top
- Extended I/O
- Trailer (Base)

ECO-ARC 200L

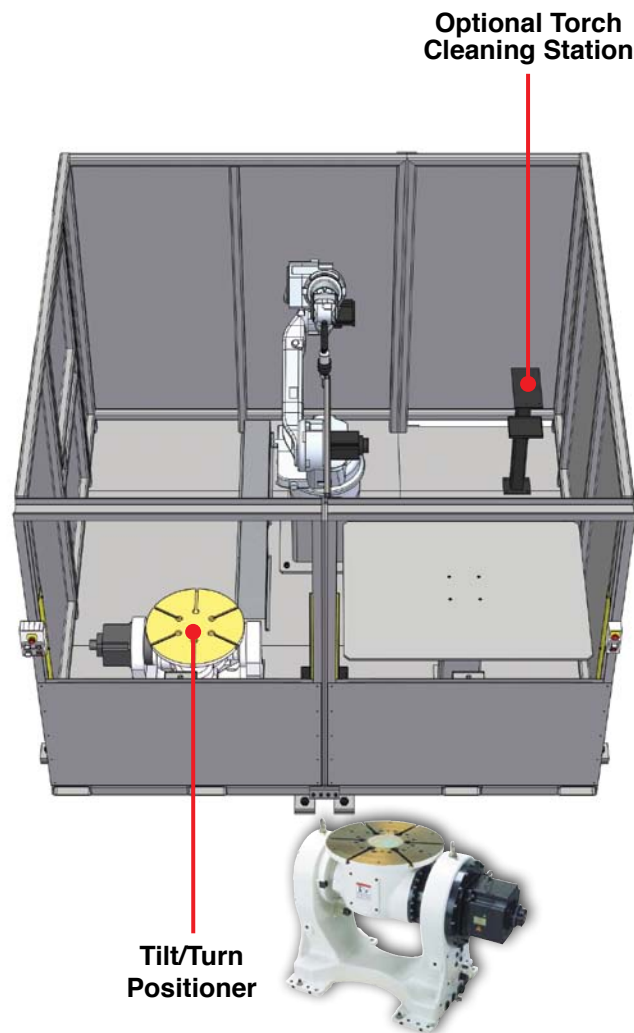
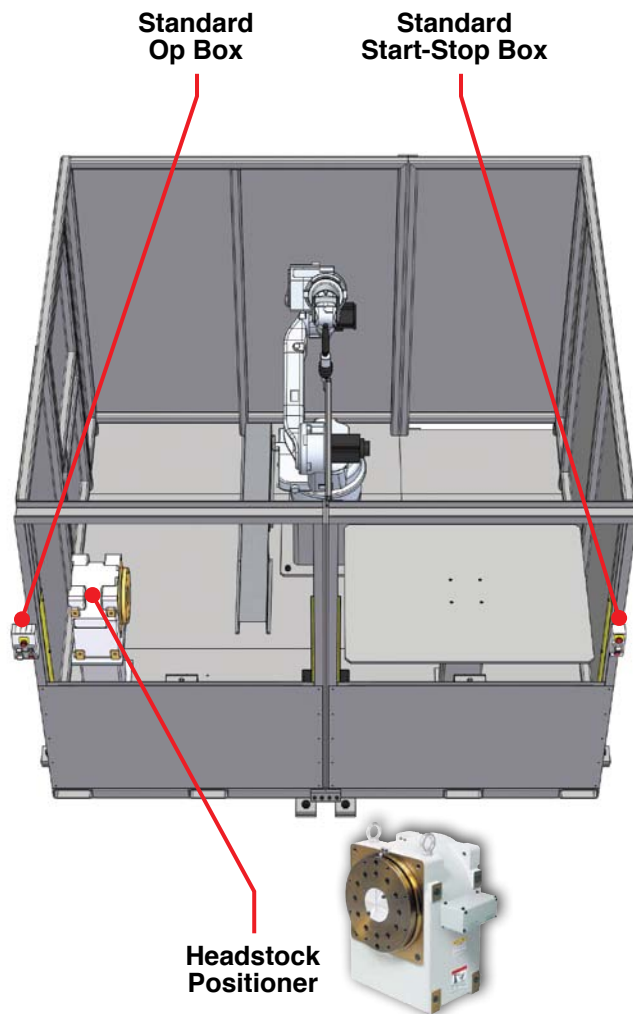


Standard Option:

ECO-ARC 200L – 2 stationary tables with long reach robot manipulator (FD-V6L)

Details:

- Pneumatic shutter doors
- Zone Ring for station designation
- Standard fork lift pockets in split base for easy movement
- Steel wall station divider
- Table Top Dimensions: 1220mm x 915mm
- Weight – Approx. 3500kg



Specifications:

Footprint Dimensions:

Width: 3394mm (133.6")
 Height: 2148mm (84.6")
 Depth: 4065mm (160.0")

Manipulator Types:

- FD-V6L
- FD-B4L

Cell Options:

- 2 Stationary Tables
- Positioner/Table
- 2 Positioners

Headstock Options:

- A2PB-250
- A2PB-500
- A2PB-1000



Tilt/Turn Options:

- A2PF-300
- A2PF-500
- A2PF-1000

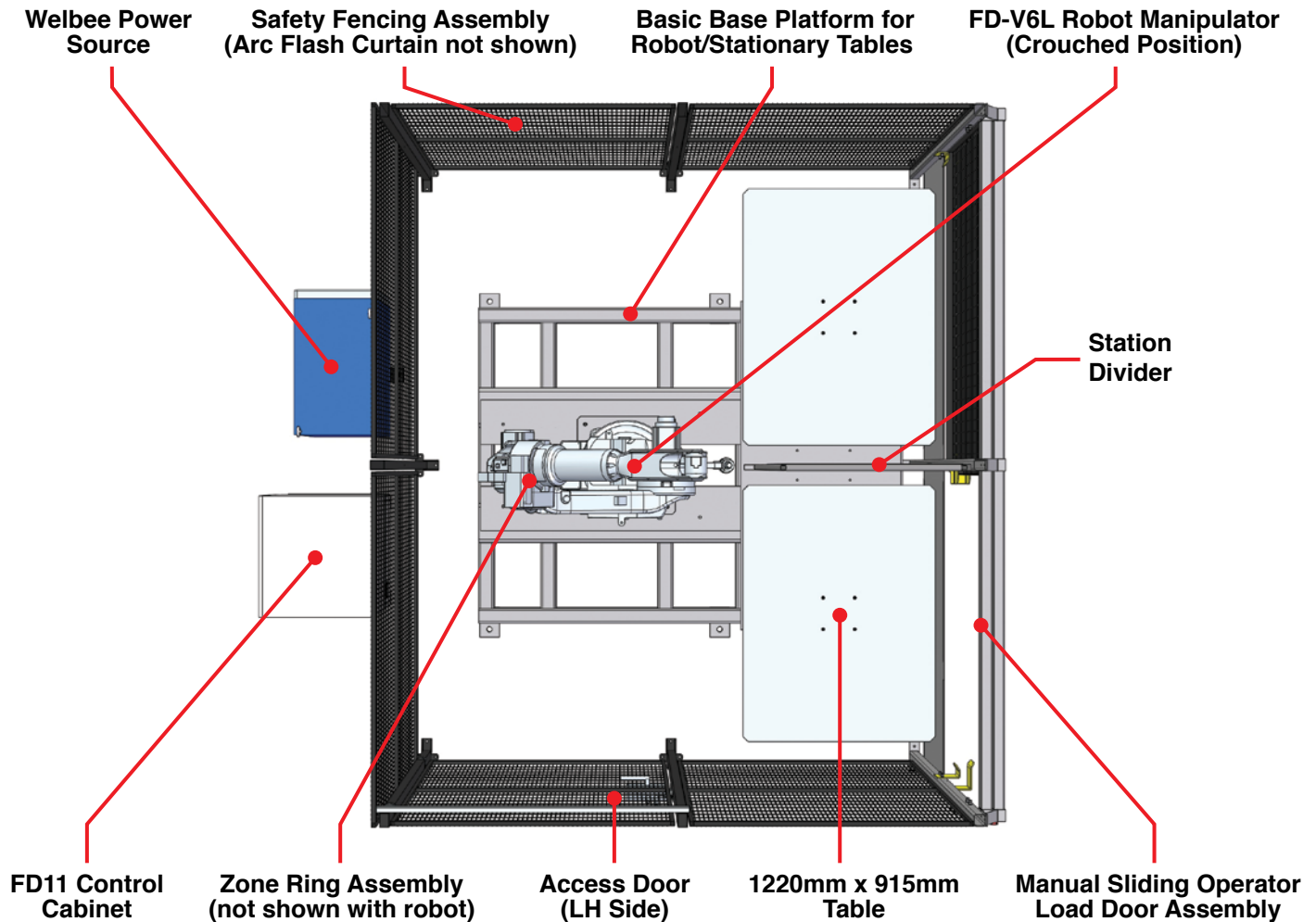
Available I/O Slots:

28 Inputs/26 Outputs
 (Additional Power Supply needed for Outputs)

Other Options:

- Basic Base Design (ECO-ARC 200LB)
- Safety Fencing on Floor
- Safety Fencing on Full Base
- Access Door on RH Side
- Manual Sliding Door Assembly
- Station Lighting
- Torch Cleaning Station
- Fixture Mounting Pattern in Table Top
- Extended I/O

ECO-ARC 200LB

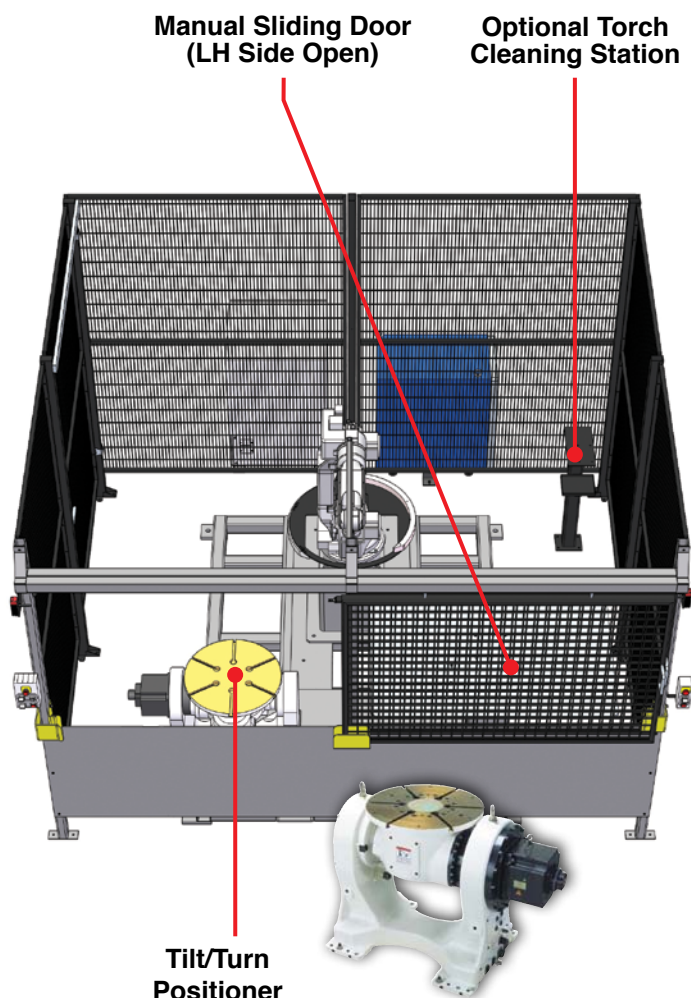
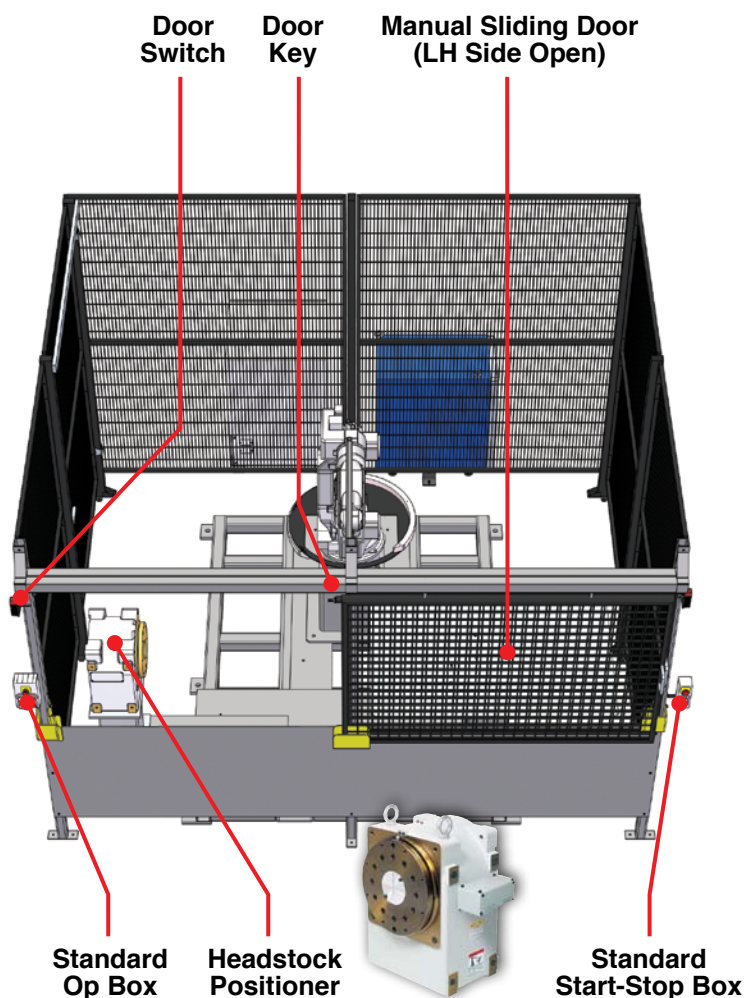


Standard Option:

ECO-ARC 200LB – 2 stationary tables with long reach robot manipulator (FD-V6L)

Details:

- Manual sliding operator load doors
- Zone Ring for station designation
- Standard fork lift pockets in base for easy movement
- Steel wall station divider
- Tabletop Dimensions: 1220mm x 915mm
- Weight – Approx. 2000kg
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

Width: 3294mm (129.7")

Height: 2200mm (86.6")

Depth: 3726mm (146.7")

Manipulator Types:

- FD-V6L
- FD-B4L

Cell Options:

- 2 Stationary Tables
- Positioner/Table
- 2 Positioners

Headstock Options:

- A2PB-250
- A2PB-500
- A2PB-1000



Tilt/Turn Options:

- A2PF-300
- A2PF-500
- A2PF-1000

Available I/O Slots:

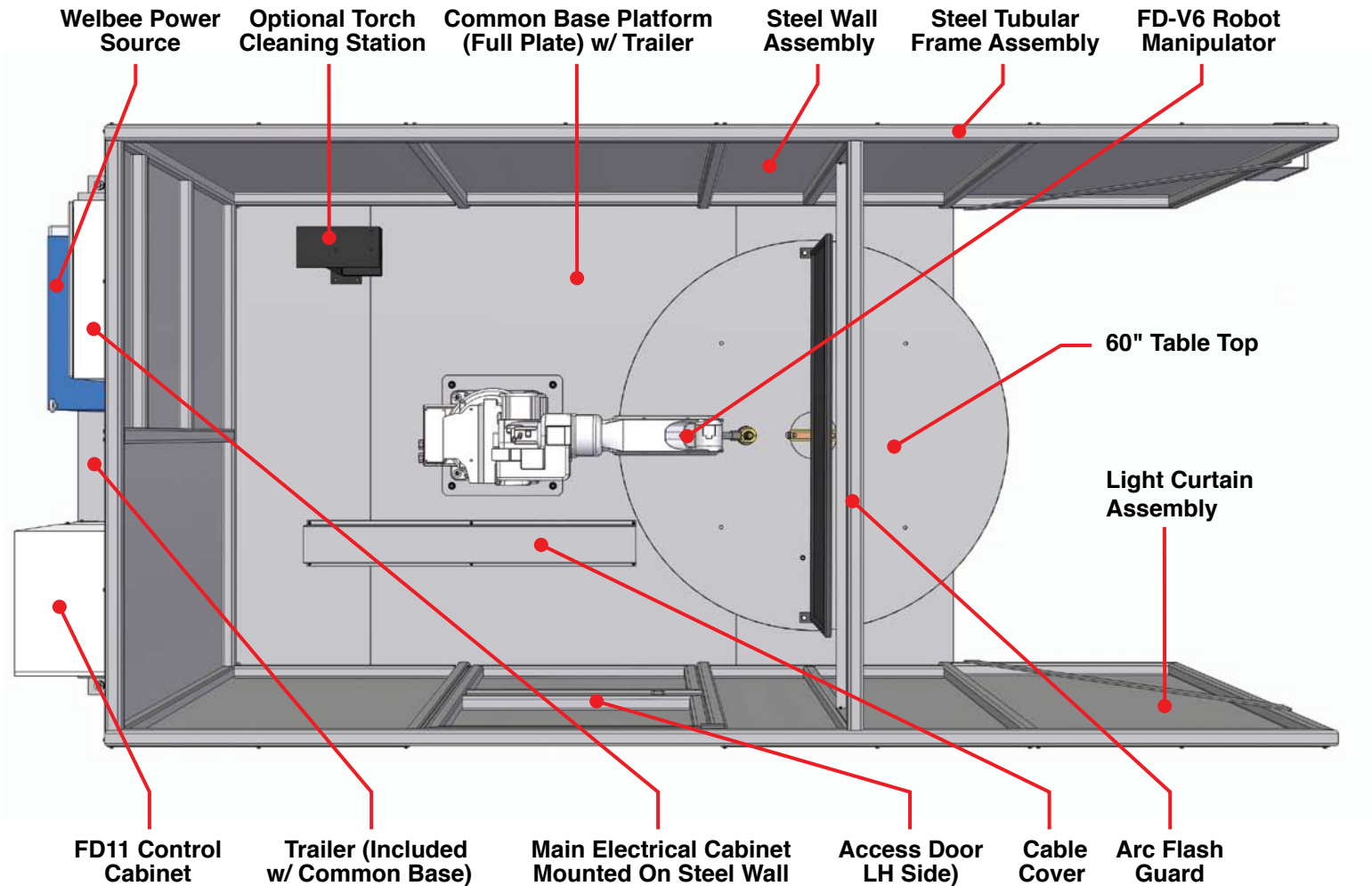
28 Inputs/26 Outputs

(Additional Power Supply needed for Outputs)

Other Options:

- Full Base & Wall Design (ECO-ARC 200L)
- Mesh Fencing on Full Base
- Access Door on RH Side
- Pneumatic Shutter Door Assembly
- Station Lighting
- Torch Cleaning Station
- Fixture Mounting Pattern in Table Top
- Extended I/O
- Trailer (Base)

PT-ARC 600

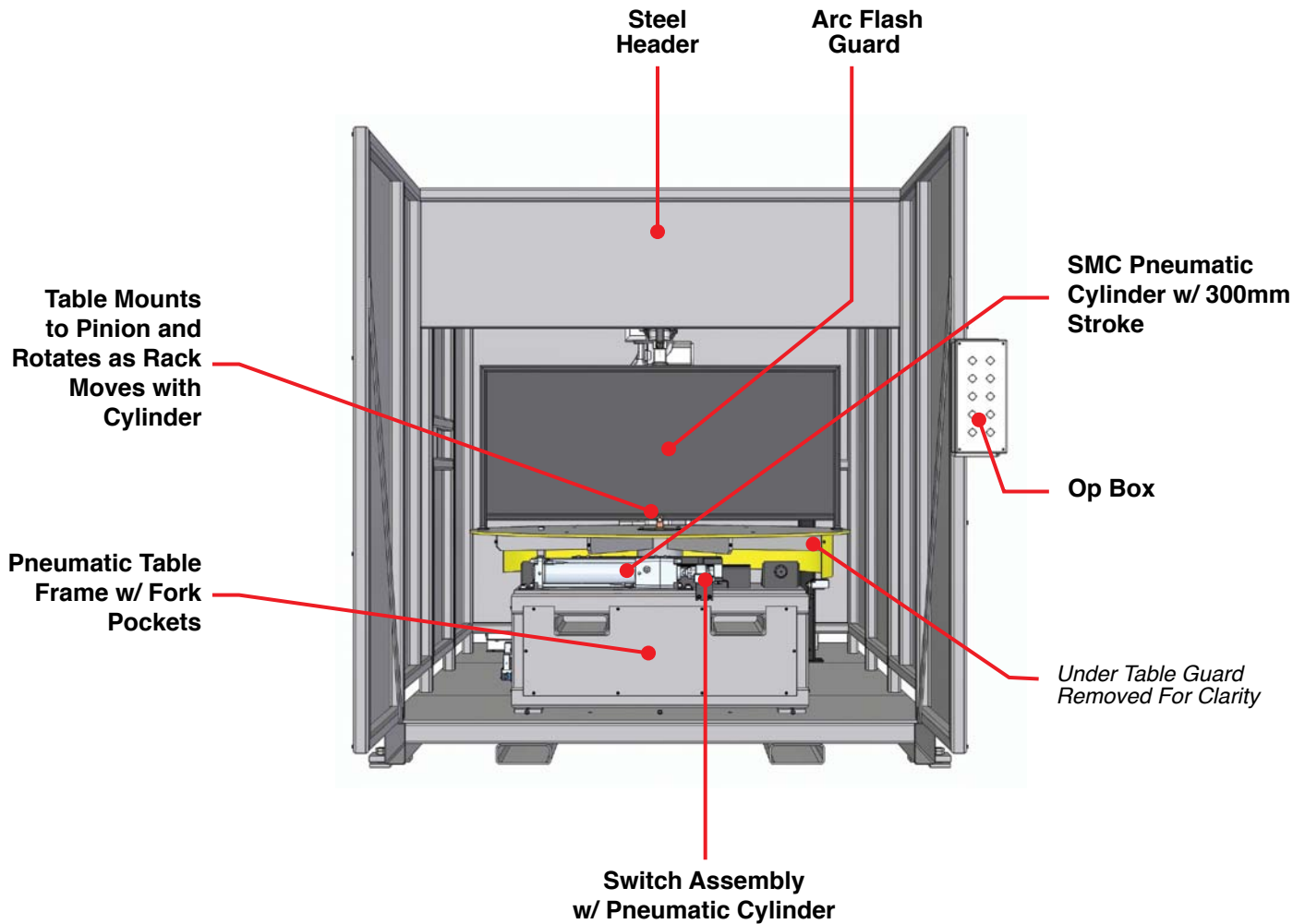


Standard Option:

PT-ARC 600 – 60" pneumatic indexing table

Details:

- SMC 300mm Stroke Pneumatic Cylinder
- Omron 1495mm Light Curtains
- Omron Limit Switches for station designation
- Index Speed (180°) - 4.2 seconds
- Work Capacity – 250kg/side
- Weight – Approx. 3500kg
- Standard fork lift pockets
- Rack and Pinion Design



Specifications:

Footprint Dimensions:

Width: 2200mm (86.6")
 Height: 2235mm (88.0")
 Depth: 4584mm (180.5")

Manipulator Types:

- FD-V6
- FD-B4



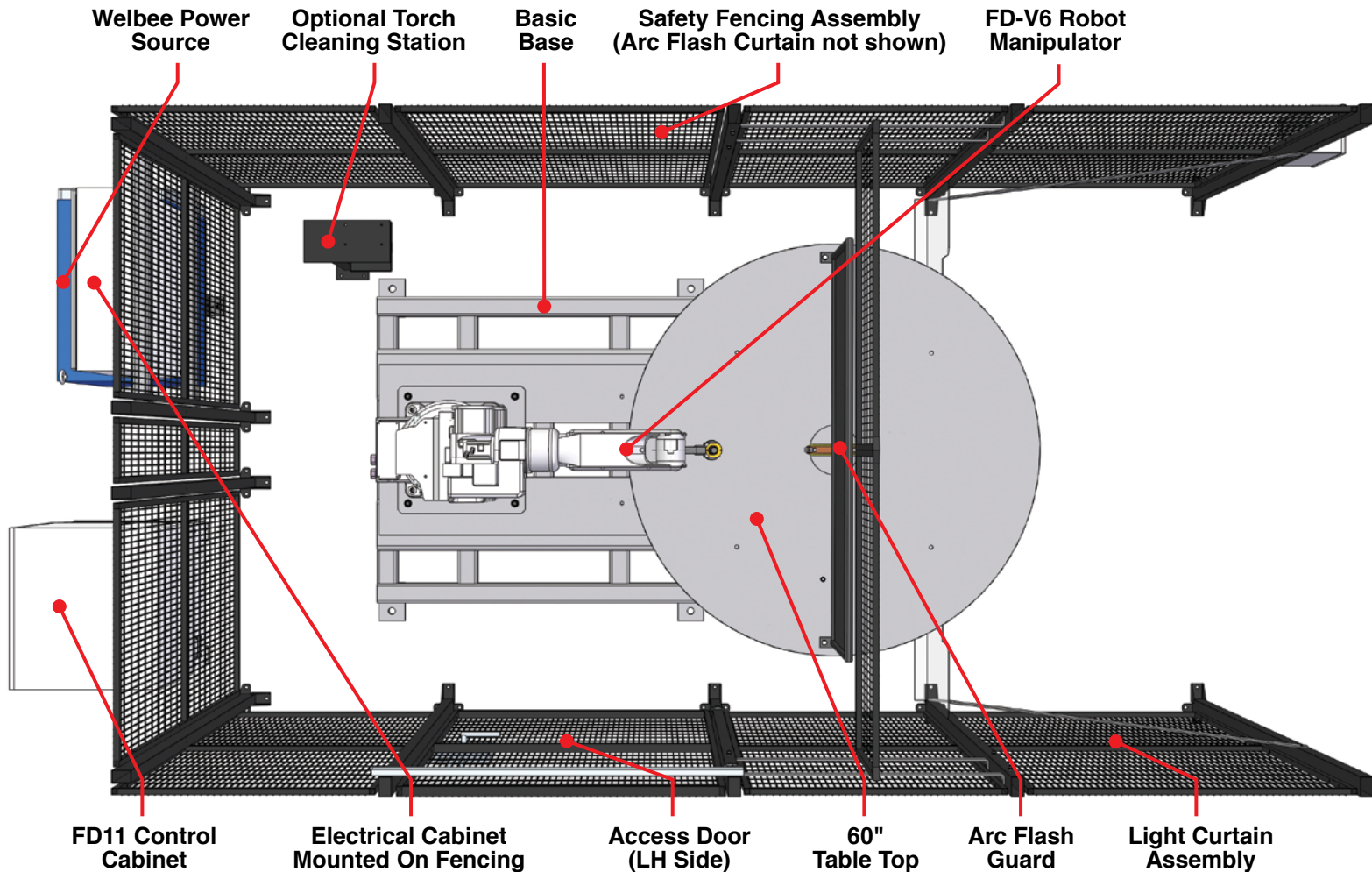
Available I/O Slots:

22 Inputs/21 Outputs
 (Additional Power Supply needed for Outputs)

Additional Options:

- Fixture mounting pattern in table top
- Torch cleaning station
- Station Lighting
- Access door on RH side
- Safety Fence on Full Base
- Basic Layout (PT-ARC 600B)
- Extended I/O

PT-ARC 600B

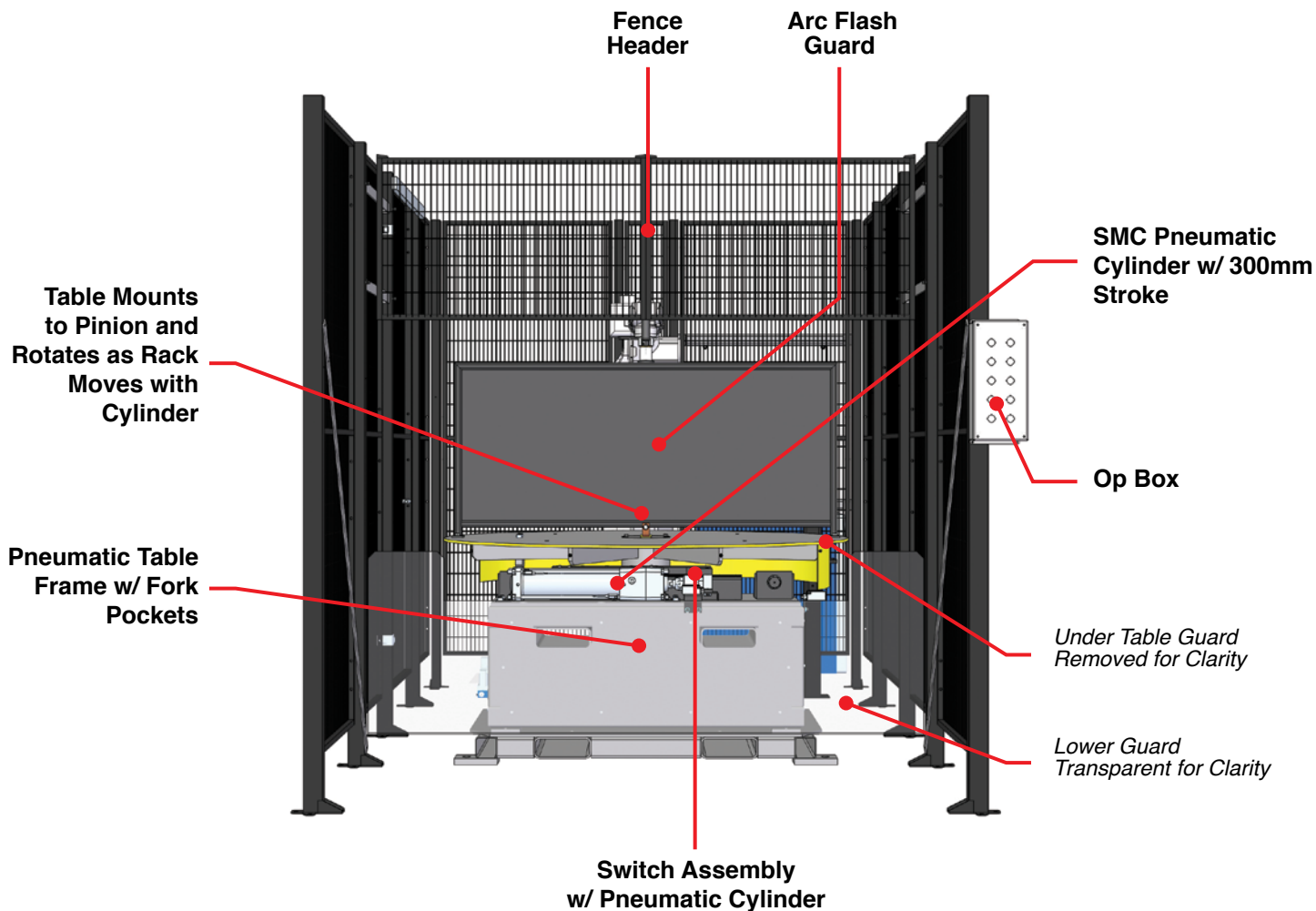


Standard Option:

PT-ARC 600B – 60" pneumatic indexing table

Details:

- SMC 300mm Stroke Pneumatic Cylinder
- Omron 1495mm Light Curtains
- Omron Limit Switches for station designation
- Index Speed (180°) - 4.2 seconds
- Work Capacity – 250kg/side
- Weight – Approx. 2000kg
- Standard fork lift pockets
- Rack and Pinion Design
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

Width: 2187mm (86.1")
 Height: 2200mm (86.6")
 Depth: 4564mm (179.7")

Manipulator Types:

- FD-V6
- FD-B4



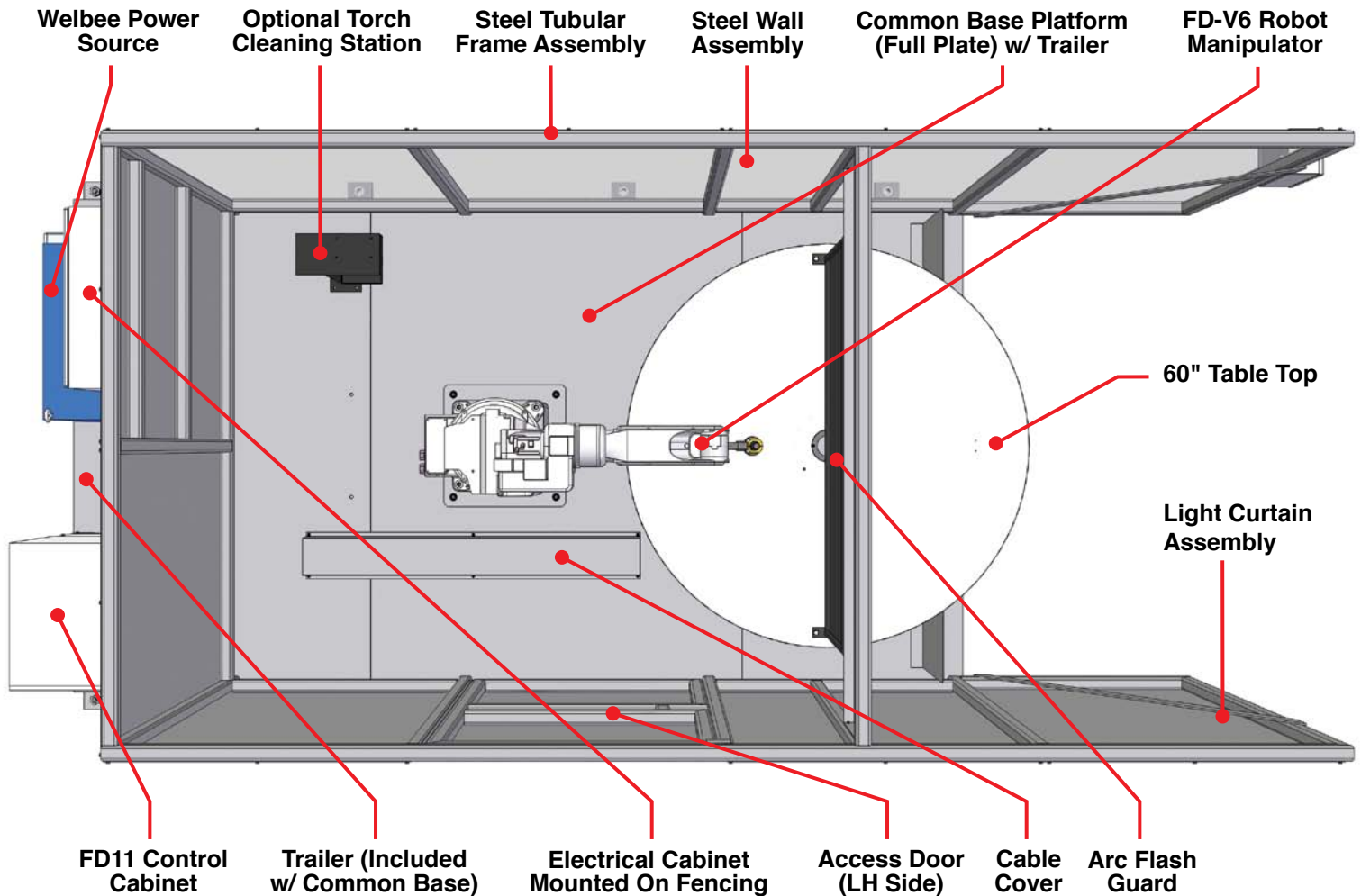
Available I/O Slots:

28 Inputs/26 Outputs
 (Additional Power Supply needed for Outputs)

Additional Options:

- Fixture mounting pattern in table top
- Torch cleaning station
- Station Lighting
- Access door on RH side
- Standard Layout (PT-ARC 600)
- Extended I/O

SERVO-ARC 600



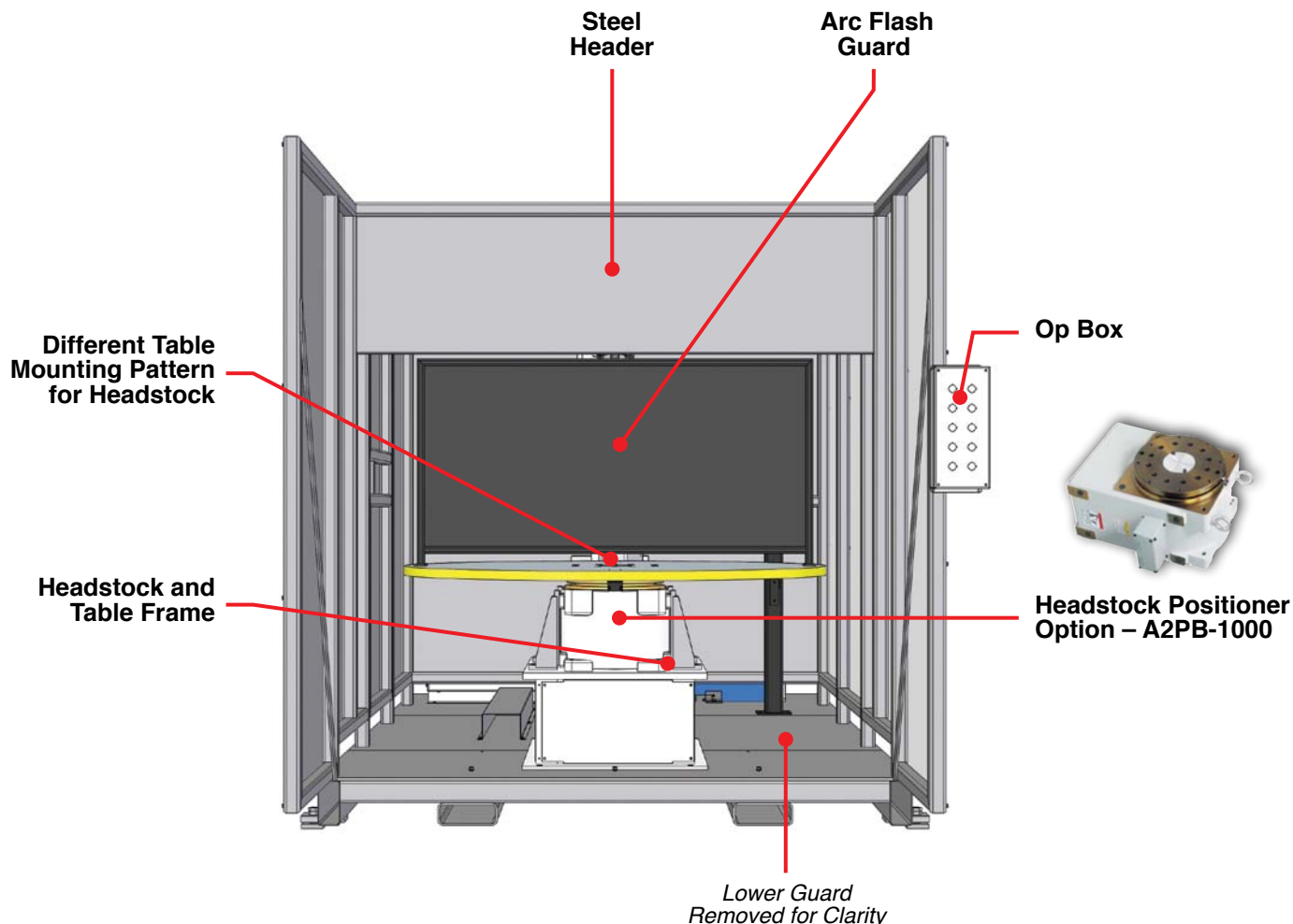
Standard Option:

SERVO-ARC 600 – 60" servo-driven indexing table

Details:

- 1.2kW Servo-motor, RV-40E Gearbox
- Omron 1495mm Light Curtains
- Omron Switch/Two Actuators for station designation
- 3" through hole diameter in table top
- Index Speed (180°) - 4.2 seconds

- Work Capacity – 250kg/side
- Weight – Approx. 3000kg
- Standard fork lift pockets



Specifications:

Footprint Dimensions:

Width: 2200mm (86.6")
 Height: 2235mm (88.0")
 Depth: 4584mm (180.5")

Manipulator Types:

- FD-V6
- FD-B4



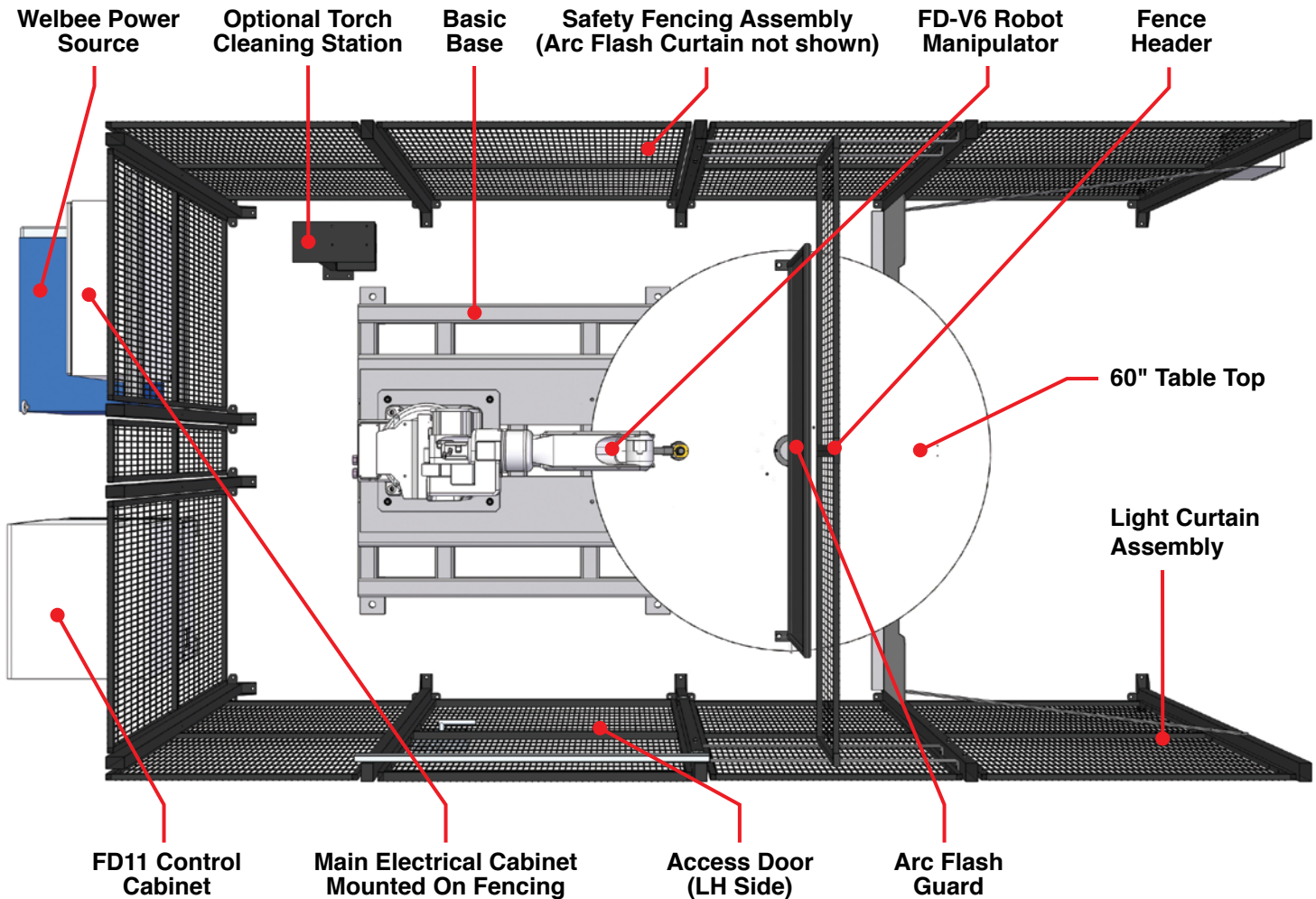
Available I/O Slots:

23 Inputs/24 Outputs
 (Additional Power Supply needed for Outputs)

Additional Options:

- A2PB-1000 Headstock instead of servo-table
- Fixture mounting pattern in table top
- Torch cleaning station
- Station Lighting
- Access door on RH side
- Safety Fence on Full Base
- 48" Table Top
- Basic Layout (SERVO-ARC 600B)
- Extended I/O

SERVO-ARC 600B

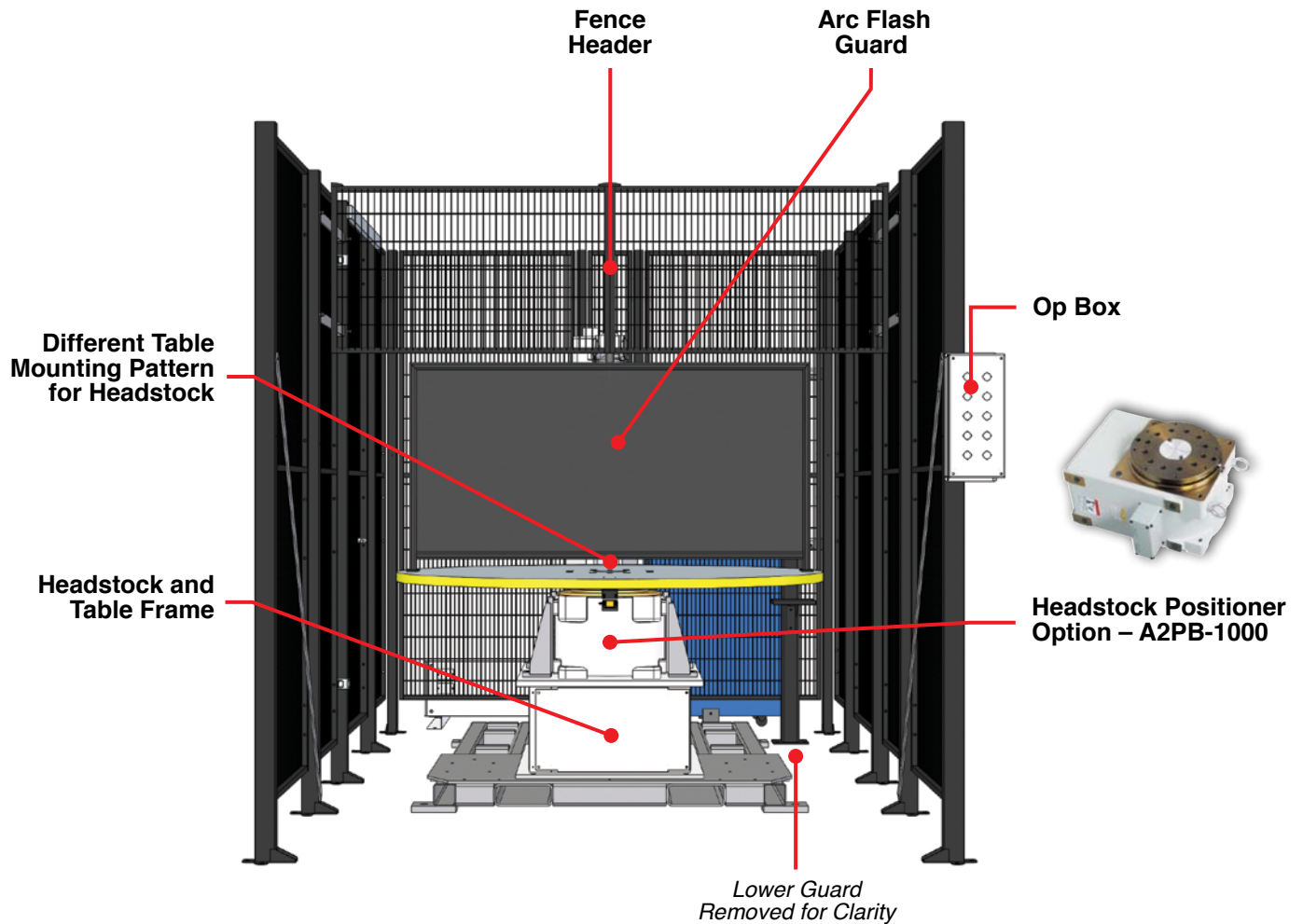


Standard Option:

SERVO-ARC 600B – 60" servo-driven indexing table

Details:

- 1.2kW Servo-motor, RV-40E Gearbox
- Omron 1495mm Light Curtains
- Omron Switch/Two Actuators for station designation
- 3" through hole diameter in table top
- Index Speed (180°) - 4.2 seconds
- Work Capacity – 250kg/side
- Weight – Approx. 2000kg
- Standard fork lift pockets
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

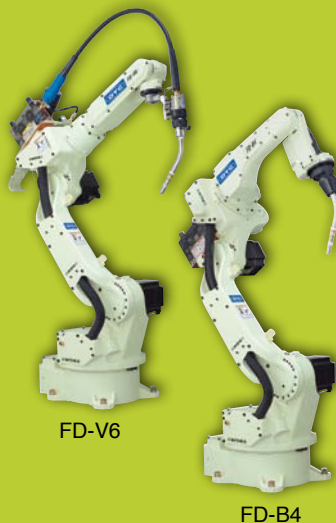
Width: 2187mm (86.1")
 Height: 2200mm (86.6")
 Depth: 4564mm (179.7")

Manipulator Types:

- FD-V6
- FD-B4

Available I/O Slots:

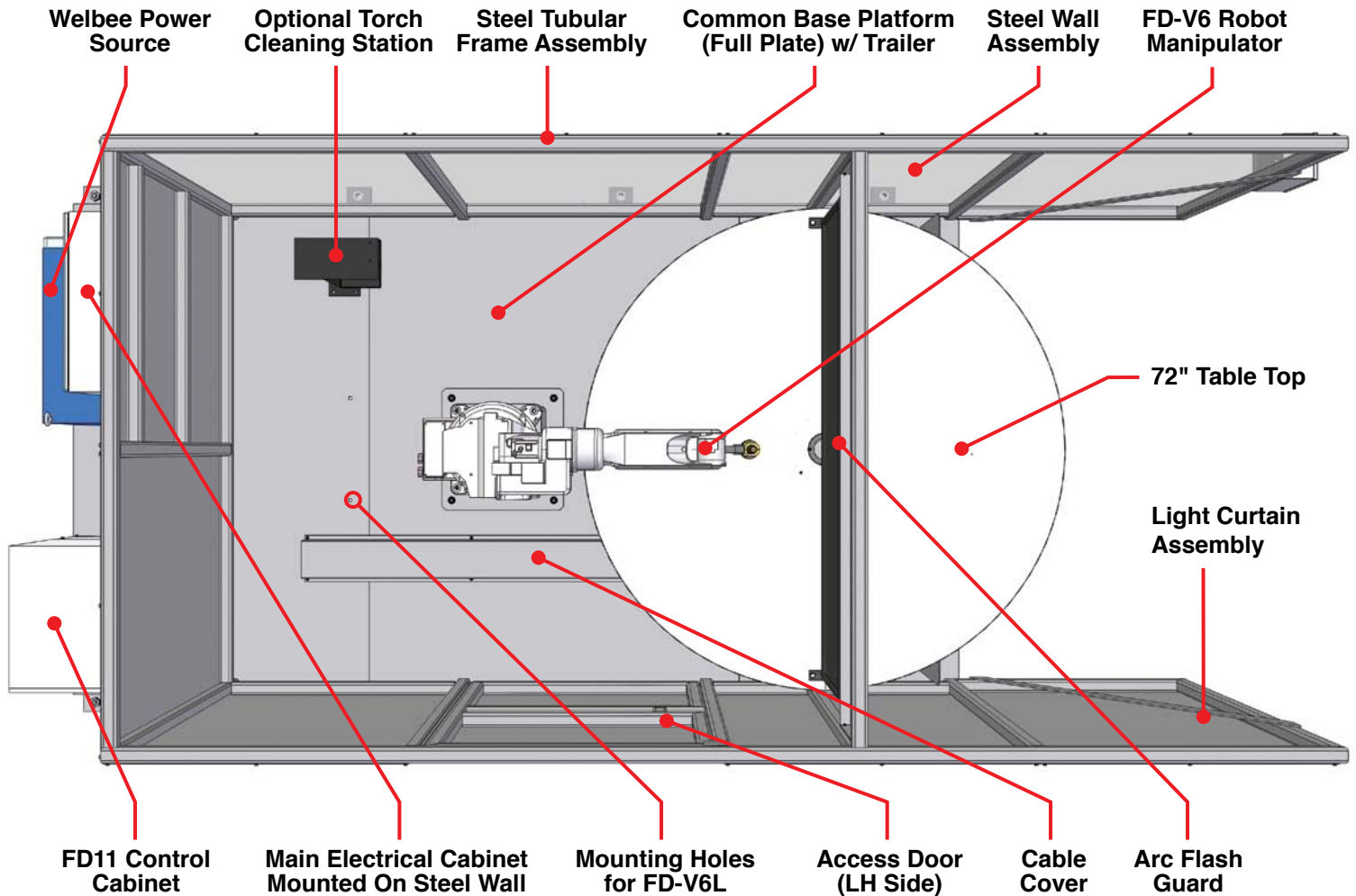
23 Inputs/24 Outputs
 (Additional Power Supply needed for Outputs)



Additional Options:

- A2PB-1000 Headstock instead of servo-table
- Fixture mounting pattern in table top
- Torch cleaning station
- Station Lighting
- Access door on RH side
- Safety Fence on Full Base
- 48" Table Top
- Standard Layout (SERVO-ARC 600)
- Extended I/O
- Trailer (Base)

SERVO-ARC 720



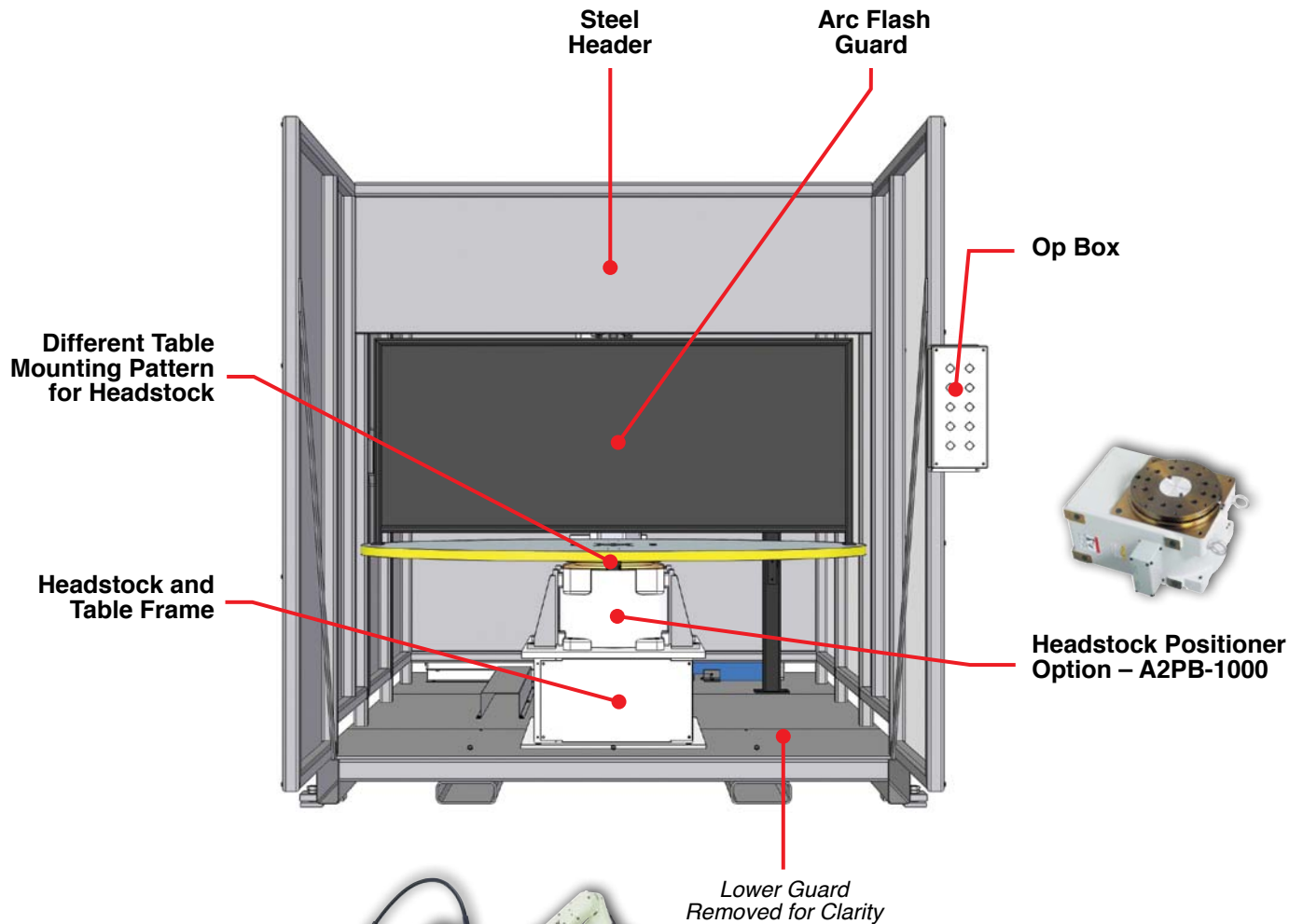
Standard Option:

SERVO-ARC 720 – 72" servo-driven indexing table

Details:

- 1.2kW Servo-motor, RV-40E Gearbox
- Omron 1495mm Light Curtains
- Omron Switch/Two Actuators for station designation
- 3" through hole diameter in table top
- Index Speed (180°) - 4.2 seconds

- Work Capacity – 250kg/side
- Weight – Approx. 3200kg
- Standard fork lift pockets



Specifications:

Footprint Dimensions:

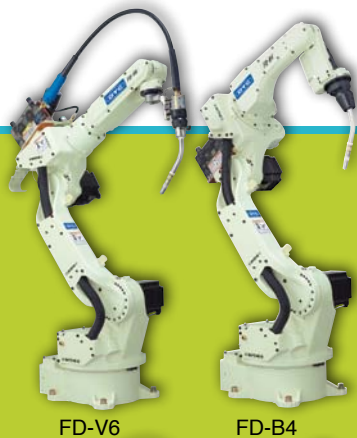
Width: 2200mm (86.6")
 Height: 2235mm (88.0")
 Depth: 4584mm (180.5")

Manipulator Types:

- FD-V6, FD-V6L
- FD-B4, FD-B4L

Available I/O Slots:

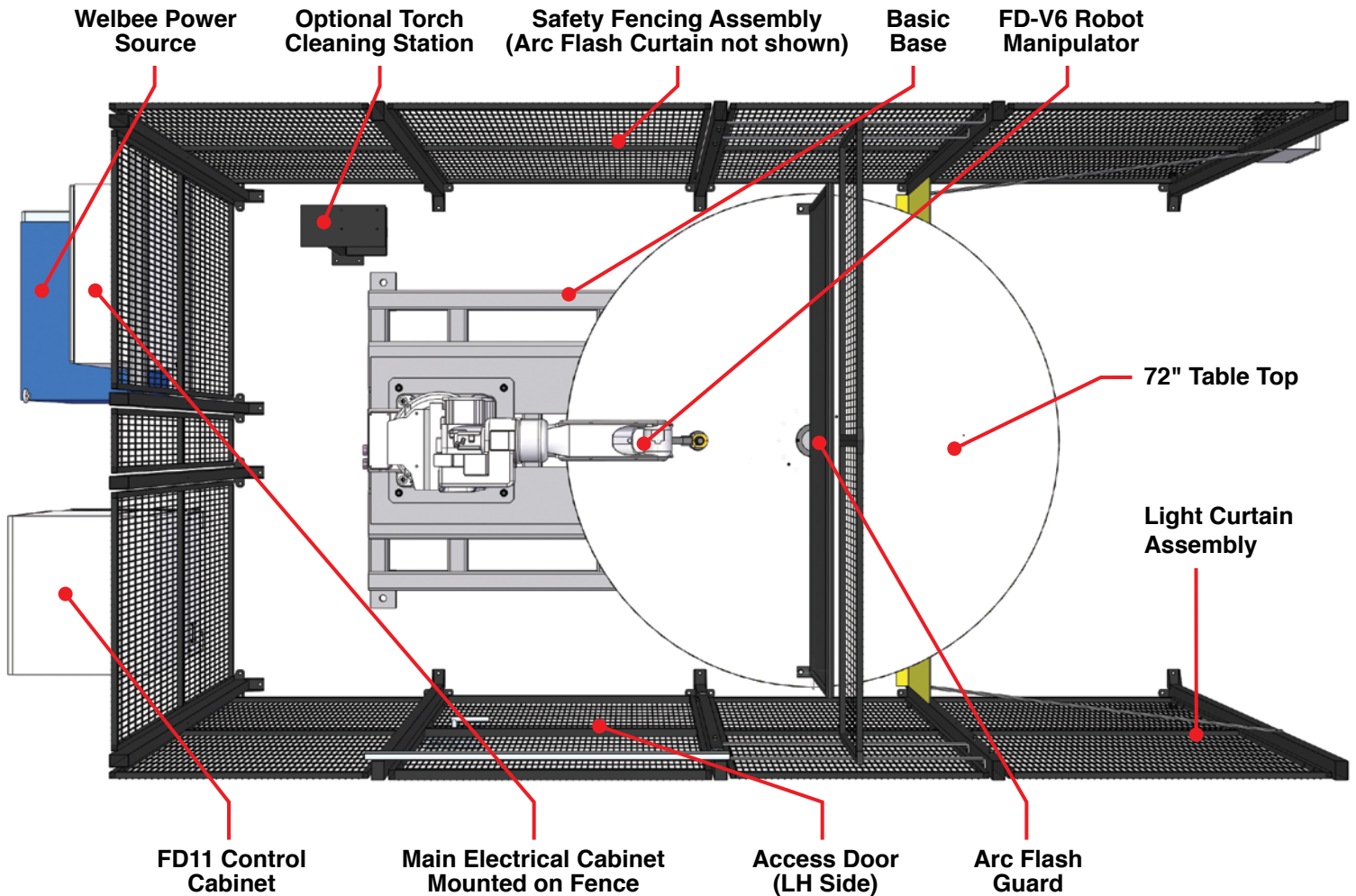
23 Inputs/24 Outputs
 (Additional Power Supply needed for Outputs)



Additional Options:

- A2PB-1000 Headstock instead of servo-table
- Fixture mounting pattern in table top
- Torch cleaning station
- Station Lighting
- Access door on RH side
- Safety Fence on Full Base
- Dual Manipulators
- Basic Layout (SERVO-ARC 720B)
- Extended I/O

SERVO-ARC 720B

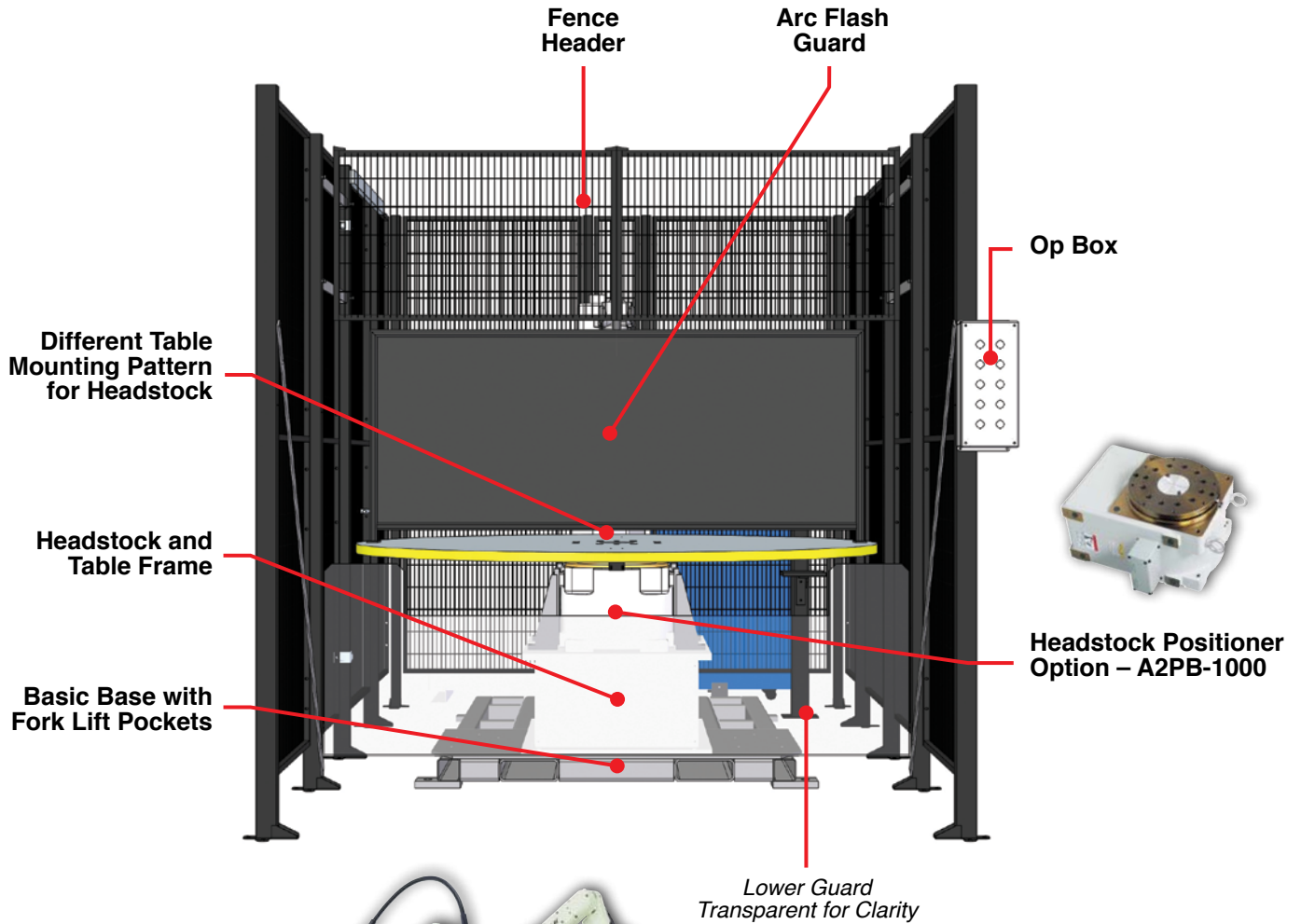


Standard Option:

SERVO-ARC 720B – 72" servo-driven indexing table

Details:

- 1.2kW Servo-motor, RV-40E Gearbox
- Omron 1495mm Light Curtains
- Omron Switch/Two Actuators for station designation
- 3" through hole diameter in table top
- Index Speed (180°) - 4.2 seconds
- Work Capacity – 250kg/side
- Weight – Approx. 2200kg
- Standard fork lift pockets
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

Width: 2187mm (86.1")
 Height: 2200mm (86.6")
 Depth: 4564mm (179.7")

Manipulator Types:

- FD-V6, FD-V6L
- FD-B4, FD-B4L

Available I/O Slots:

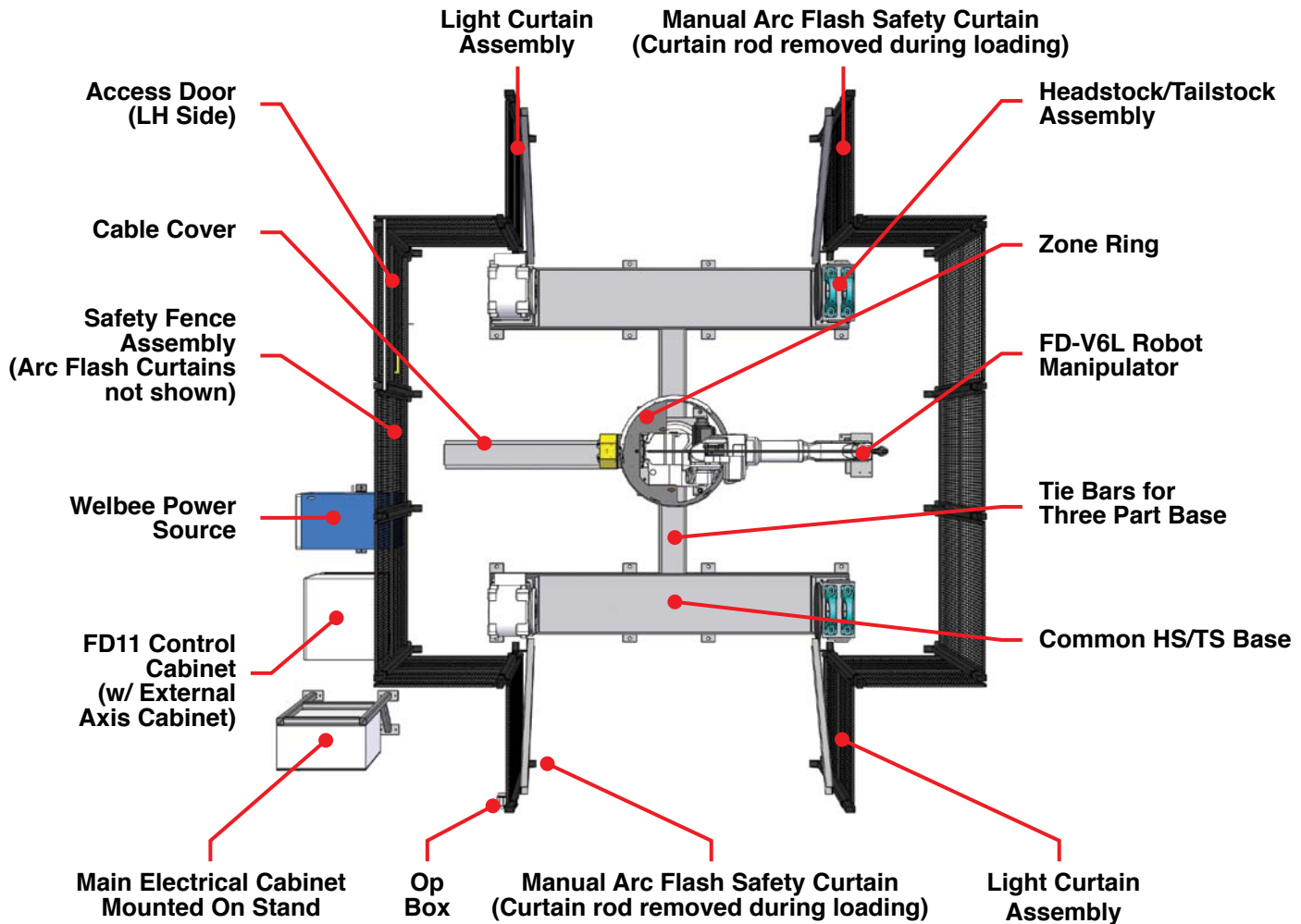
23 Inputs/24 Outputs
 (Additional Power Supply needed for Outputs)



Additional Options:

- A2PB-1000 Headstock instead of servo-table
- Fixture mounting pattern in table top
- Torch cleaning station
- Station Lighting
- Access door on RH side
- Dual Manipulators
- Standard Layout (SERVO-ARC 720)
- Extended I/O
- Trailer (Base)

DT-ARC 500

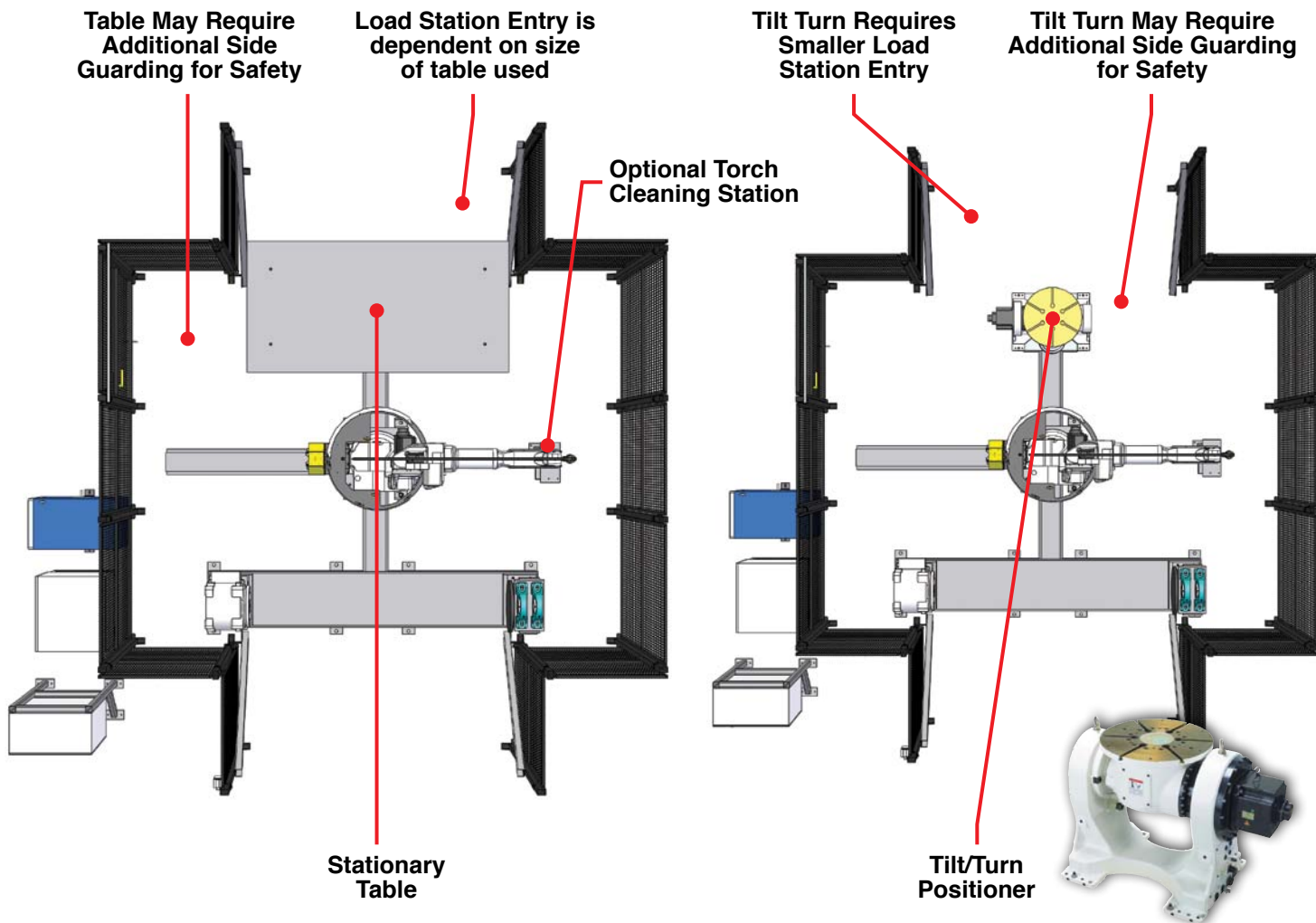


Standard Option:

DT-ARC 500 – Dual Servo-controlled Head and Tailstock Positioning Cell

Details:

- Dual A2PB-500 Headstock positioners
- Work Capacity – 500kg/side
- Omron 1495mm Light Curtains
- Manual arc flash safety curtain at individual operator stations
- Weight – Approx. 3000kg
- Common base for HS/TS Assembly
- Three part base connected with tie bars
- Standard HS/TS span: 2000mm
- Maximum span: 3100mm
- HS/TS swing diameter: 1000mm
- Zone Ring for station designation
- Access door on LH side
- Arc flash curtain for cross station protection
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

Width: 4188mm (165")
 Height: 2360mm (93")
 Depth: 5770mm (227")

Manipulator Types:

• FD-V6L • FD-B4L

Cell Options:

• Stationary Table(s)
 • H/S-T/S Assembly(s)
 • Tilt/Turn Positioner(s)

Headstock Options:

• A2PB-250 (250kg) • A2PB-1000 (1000kg)



Tilt/Turn Options:

• A2PF-300 (300kg) • A2PF-500 (500kg)
 • A2PF-1000 (1000kg)

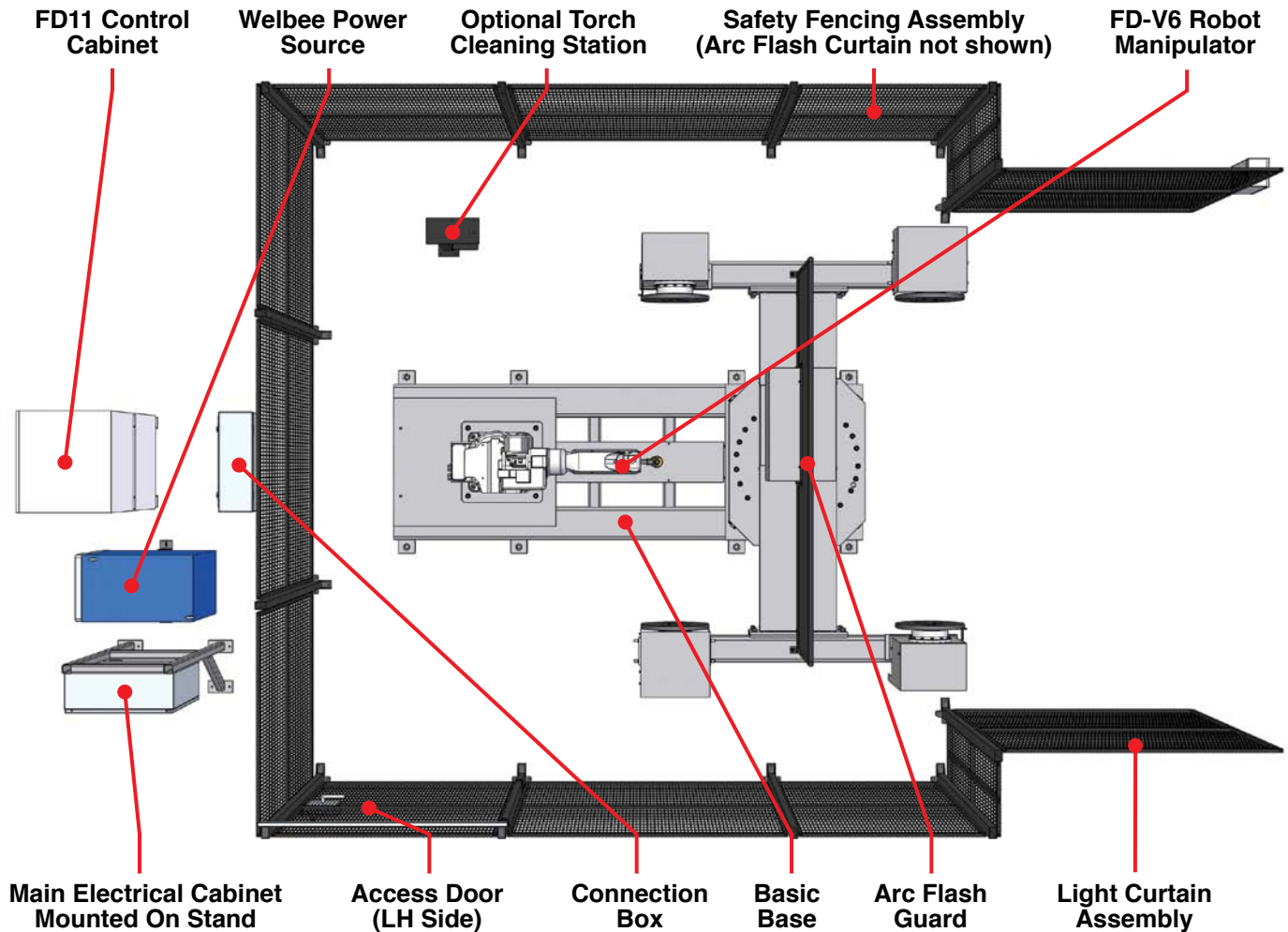
Available I/O Slots:

15 Inputs/24 Outputs
 (Additional Power Supply needed for Outputs)

Additional Options:

- Roll up arc flash door at individual operator stations – OTC design or Frommelt
- Full Base w/ steel wall assembly
- 120° configuration
- Torch cleaning station
- Access door on RH side
- Utility Trailer
- Multiple Manipulators w/ platform (connected with tie bars)
- Extended I/O

ROTA-ARC 1000

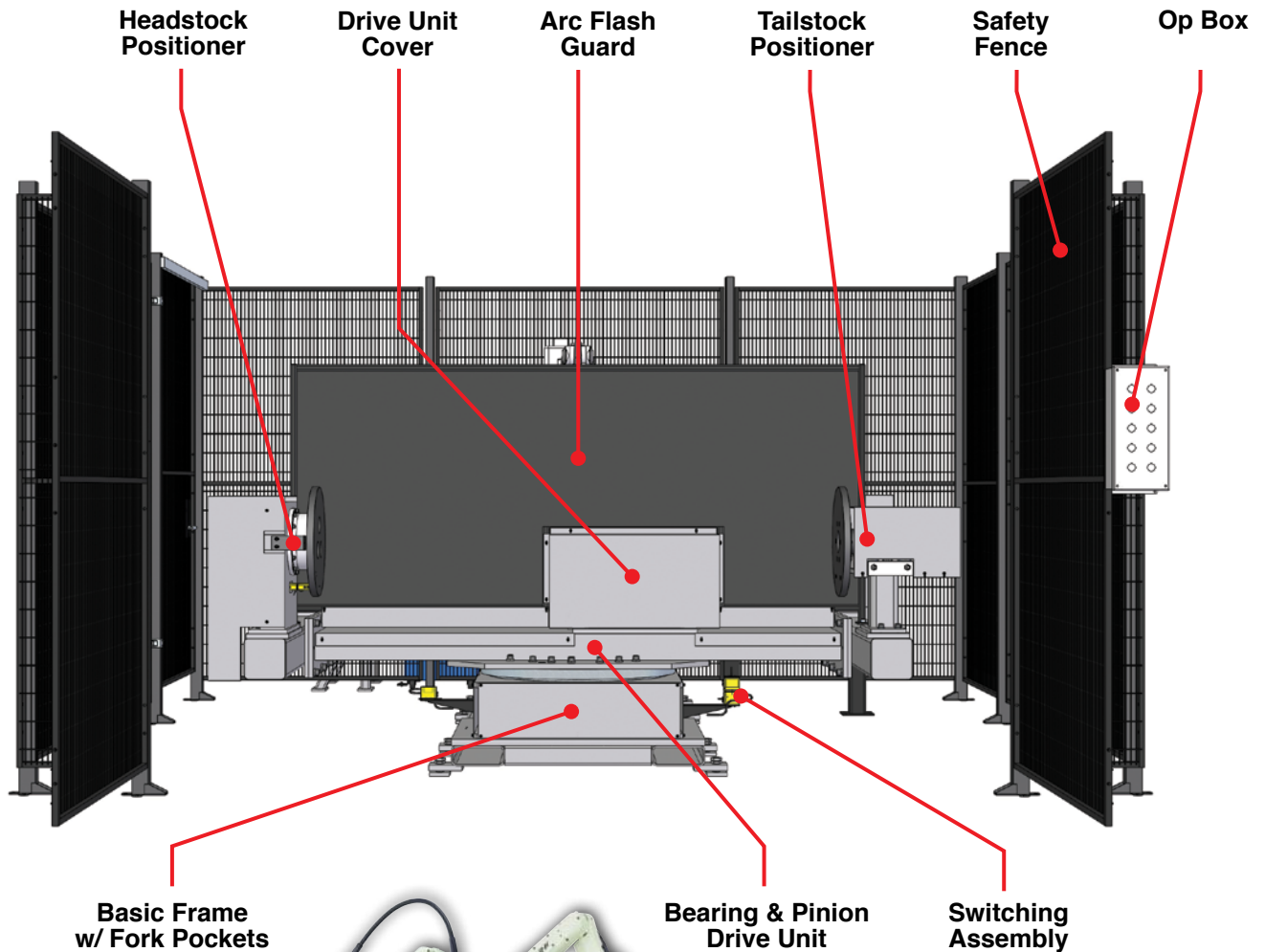


Standard Option:

ROTA-ARC 1000 – Rotating H-Frame
w/ (2) Headstock/Tailstock assemblies

Details:

- 3-Axis, Servo-controlled Positioner
- 4.5 kW motor for main axis rotation
- Omron 1495mm Light Curtains
- Omron Limit Switches for station designation
- Center mounted arc flash shield
- Index Speed (180°) - 6 seconds
- RV-110E gear box
- Work Capacity – 1000kg/side
- Weight – Approx. 2500kg
- Standard fork lift pockets in base
- Bearing and Pinion Design
- Standard HS/TS span: 1500mm
- HS/TS swing diameter: 1000mm
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

Width: 3398mm (133.8")

Height: 2200mm (86.6")

Depth: 6115mm (240.7")

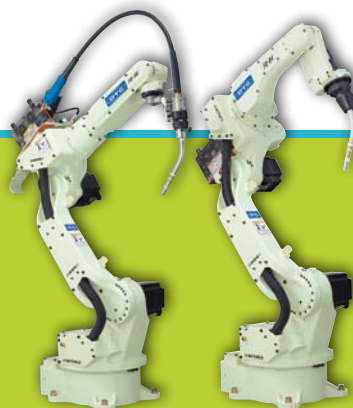
Manipulator Types:

• FD-V6 • FD-V6L

• FD-B4 • FD-B4L

Available I/O Slots:

28 Inputs/26 Outputs
(Additional Power Supply needed for Outputs)



FD-V6

FD-B4



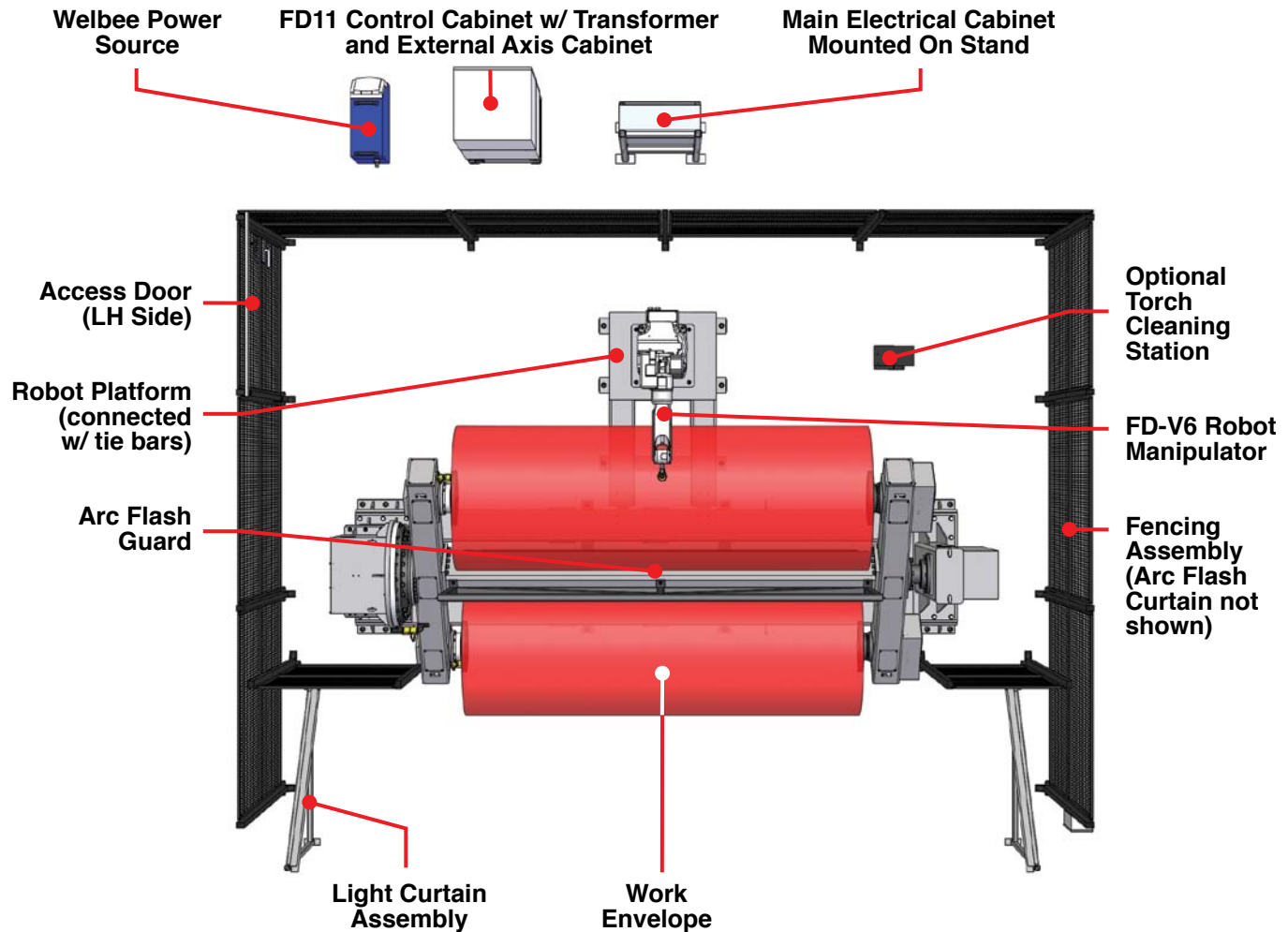
FD-V6L

FD-B4L

Additional Options:

- HS/TS span of 2000mm max.
(with FD-V6L/FD-B4L Manipulators)
- Torch cleaning station
- Access door on RH side
- Utility Trailer
- Multiple Manipulators w/ platform
(connected with tie bars)
- Extended I/O

TRI-ARC 1000

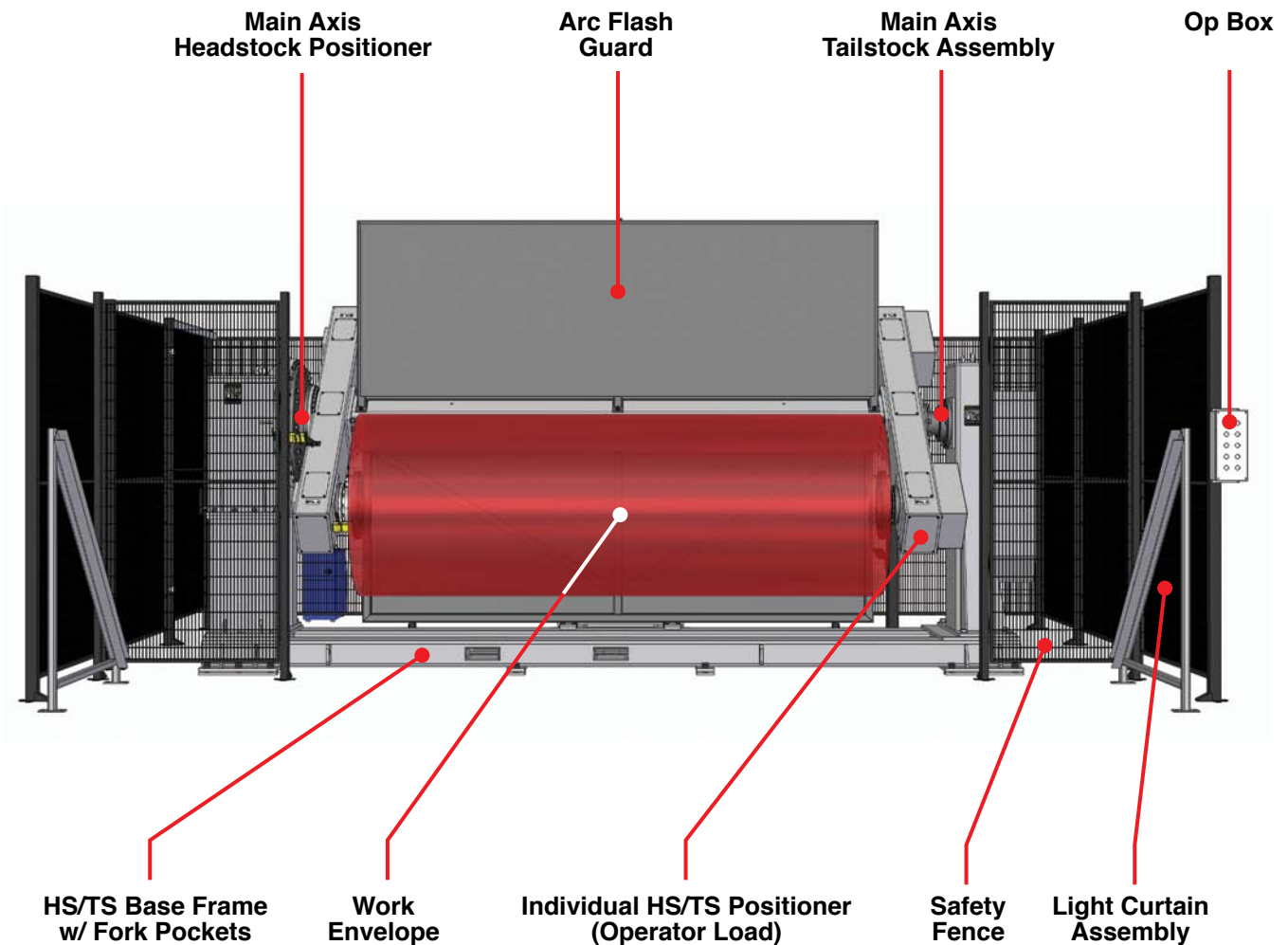


Standard Option:

TRI-ARC 1000 – Rotating Ferris Wheel
w/ (2) Headstock/Tailstock assemblies

Details:

- 3-Axis, Servo-controlled Positioner
- 4.5 kW motor for main axis rotation
- RV-320E Gear box for main axis
- Omron 1495mm Light Curtains
- Single Load/Unload point
- 2 kW motor for individual axis rotation
- RV-110E Gear box for individual axis
- Work Capacity – 1000kg/side
- Weight – Approx. 4100kg
- Standard fork lift pockets in base
- Standard HS/TS span: 3000mm
- Index Speed - 5 seconds
- HS/TS swing diameter: 1050mm
- Robot platform connected with tie bars
- Floor mounted safety fencing w/ arc flash curtains



Specifications:

Footprint Dimensions:

Width: 6258mm (246.4")
 Height: 3048mm (120")
 Depth: 5736mm (225.8")

Manipulator Types:

- FD-V6L
- FD-B4L

Available I/O Slots:

1 Input/10 Outputs
 (Additional Power Supply needed for Outputs)



Additional Options:

- HS/TS span of 3500mm max.
- Torch cleaning station
- Access door on RH side
- Utility Trailer
- Multiple manipulators w/ platform (connected with tie bars)
- Extended I/O (recommended)



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