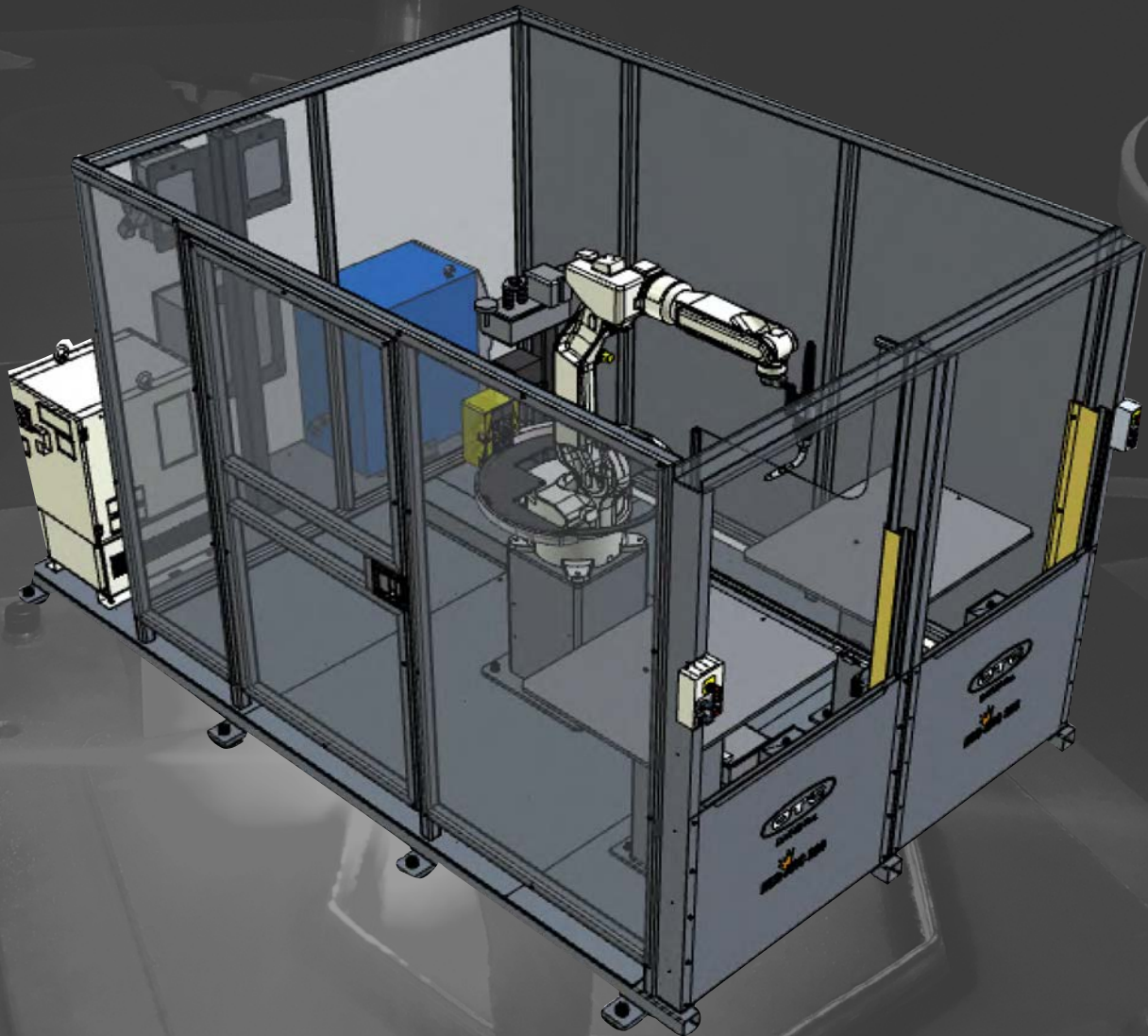


PRE-ENGINEERED SYSTEMS OVERVIEW



DAIHEN INC.

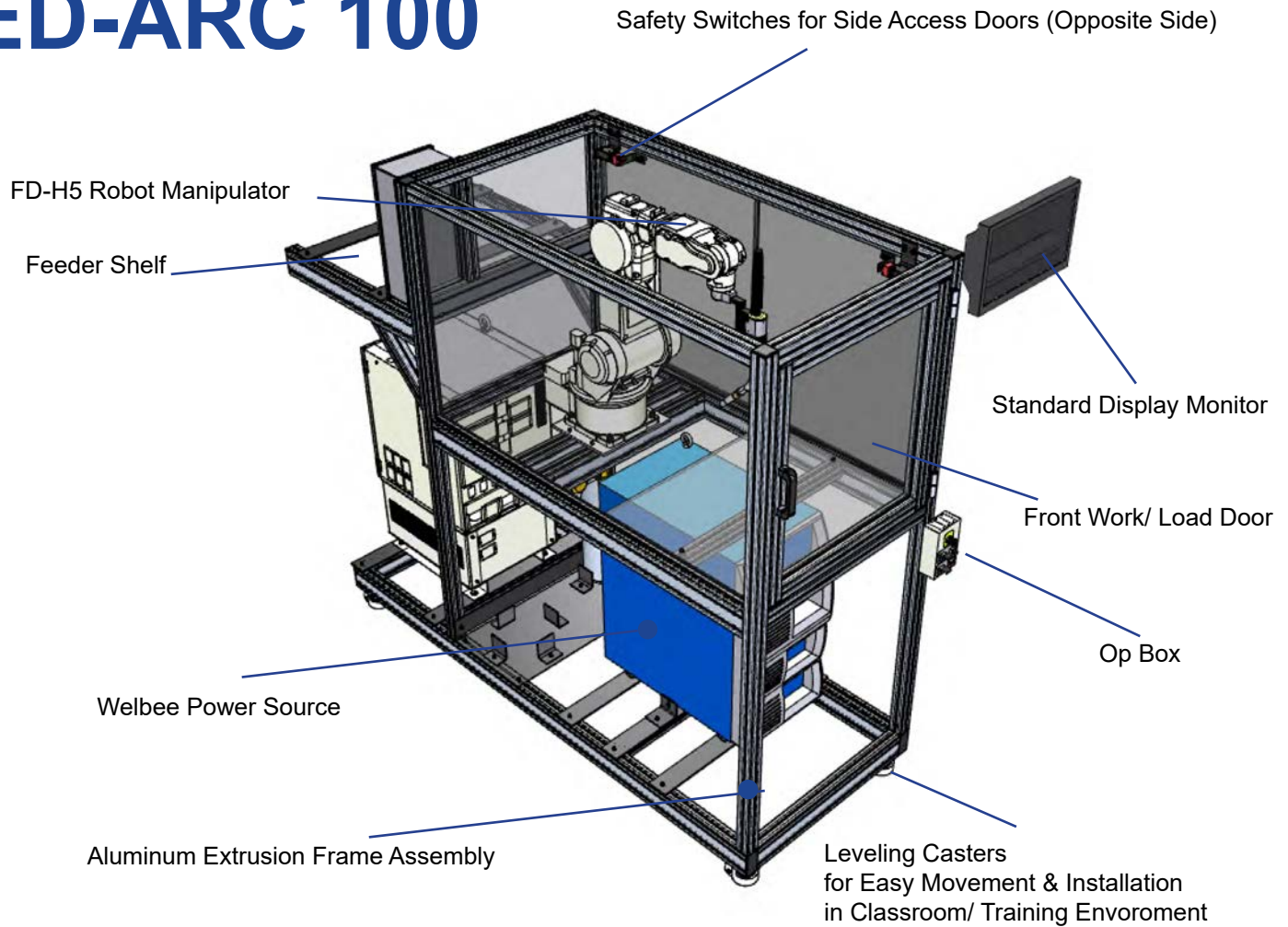
Contents

ED-ARC 100	1
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DAIHEN INC.

ED-ARC 100



Standard Configuration:

ED-ARC 100

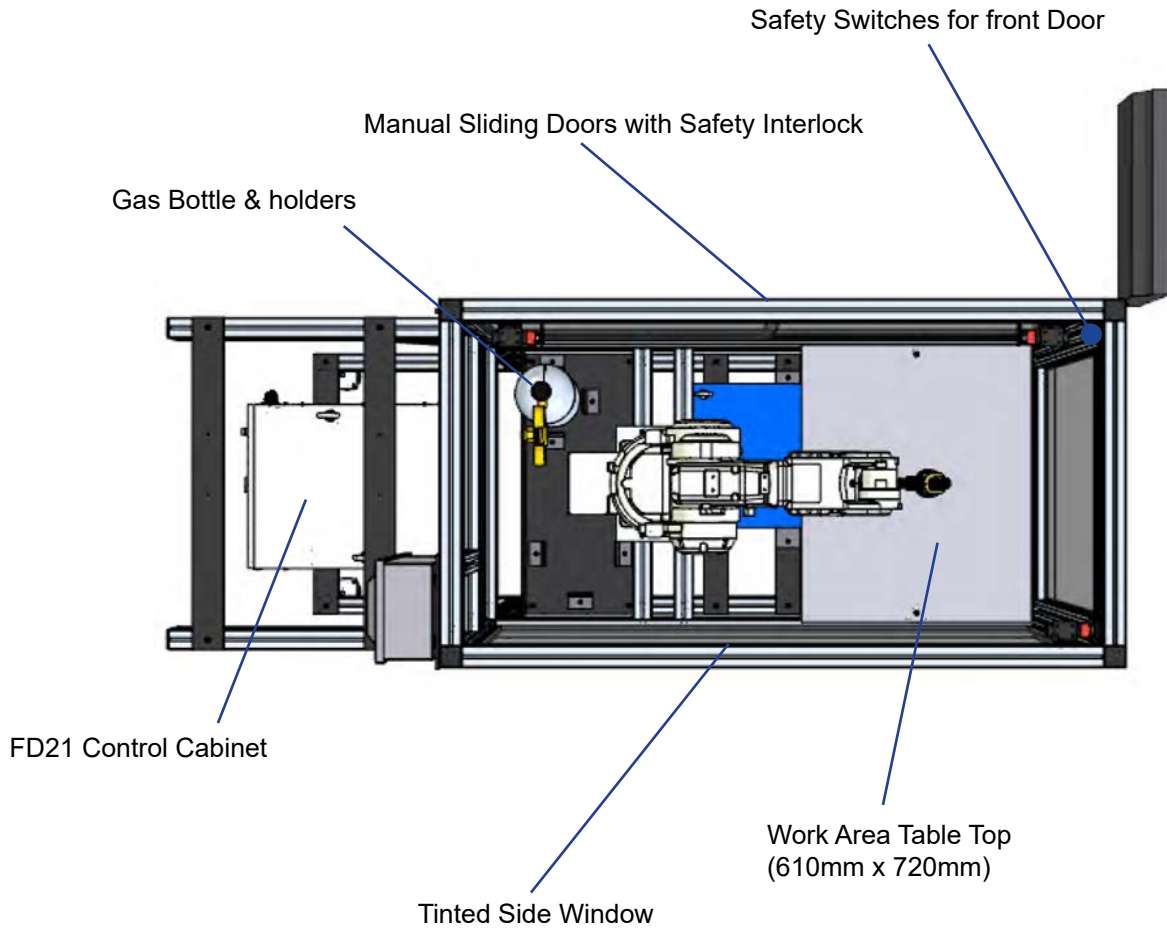
Mobile, fully enclosed arc welding training station with compact robot manipulator FD-H5

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 and safety interlock
- Side access door with tinted window for load/maintenance and safety interlock
- Tinted panels provide better light in work area for training visibility and operator safety
- Shelf mounted welding power source
- Standard Display Monitor



FD-H5



Specifications

Footprint Dimensions:

Width: 820mm (32.3")
Height: 2014mm (79.3")
Depth: 2320 (91.3")

Manipulator Types:

- FD-H5

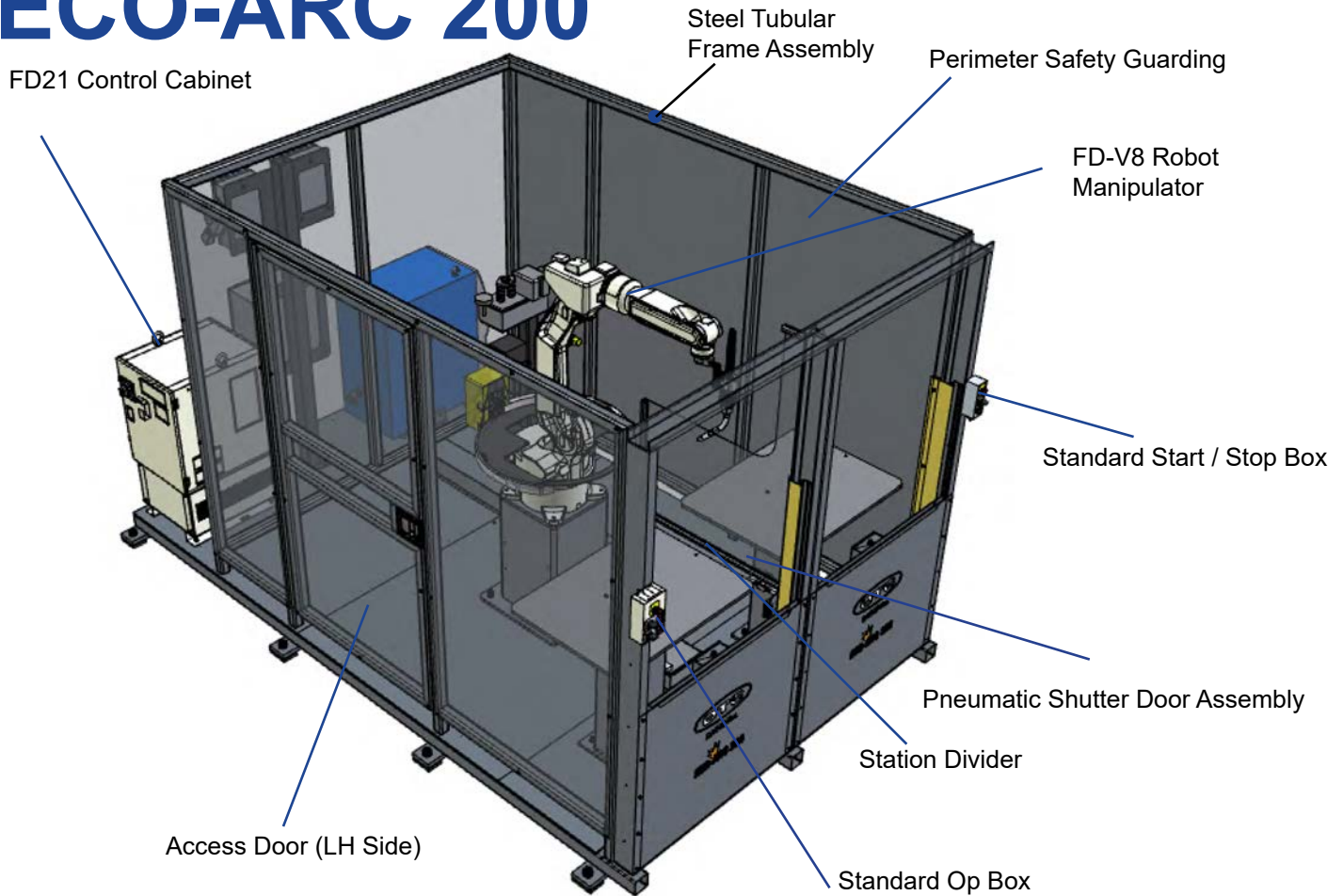
Available I/O Slots:

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

Other 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



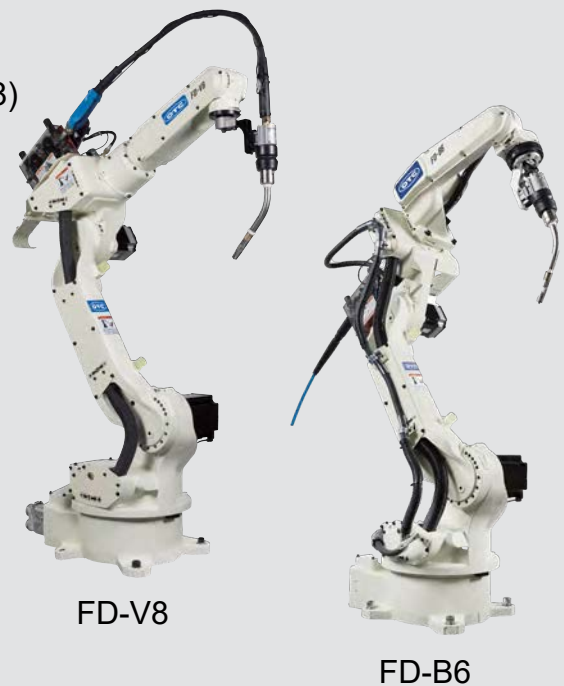
Standard Configuration:

ECO-ARC 200

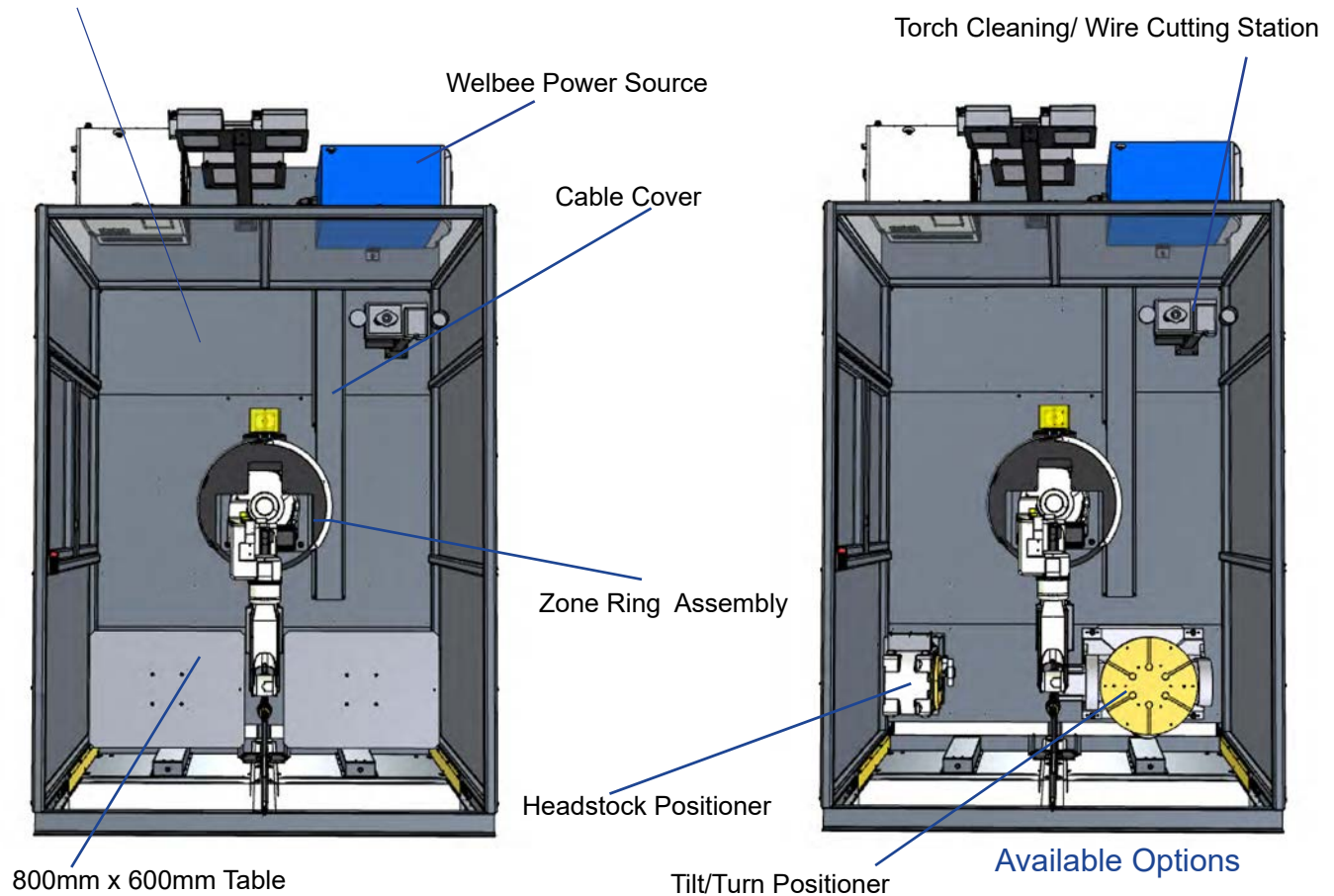
2 stationary tables with standard robot manipulator (FD-V8)

Details

- Pneumatic shutter 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. 2000kg



Common Base Platform (Full Plate) W/Trailer



Specifications

Footprint Dimensions:

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

Manipulator Types:

- FD-V8
- FD-B6

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

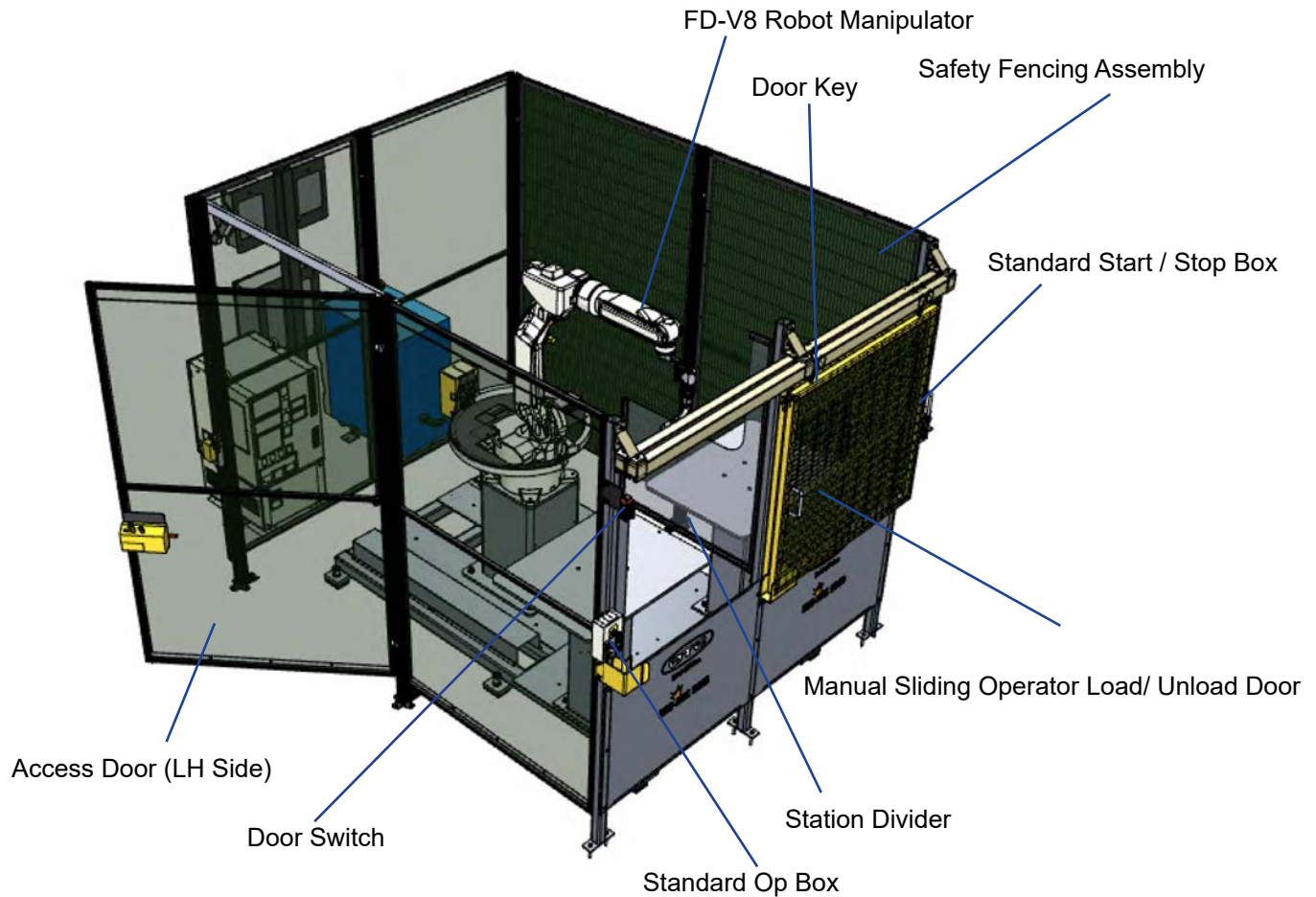
Available I/O Slots:

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 Configuration:

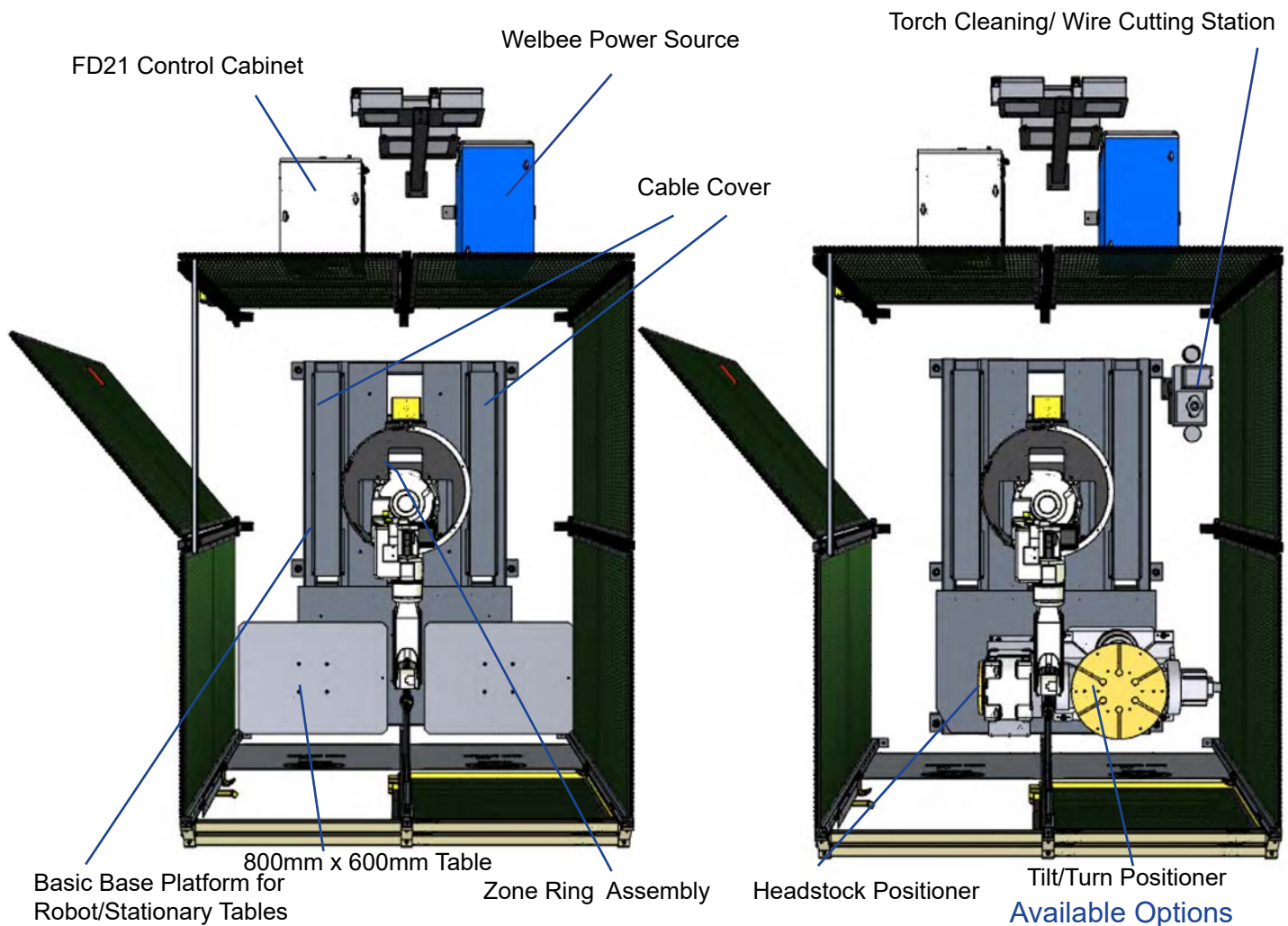
ECO-ARC 200B

2 stationary tables with standard robot manipulator (FD-V8)

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: 3575mm (140.7")

Manipulator Types:

- FD-V8
- FD-B6

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

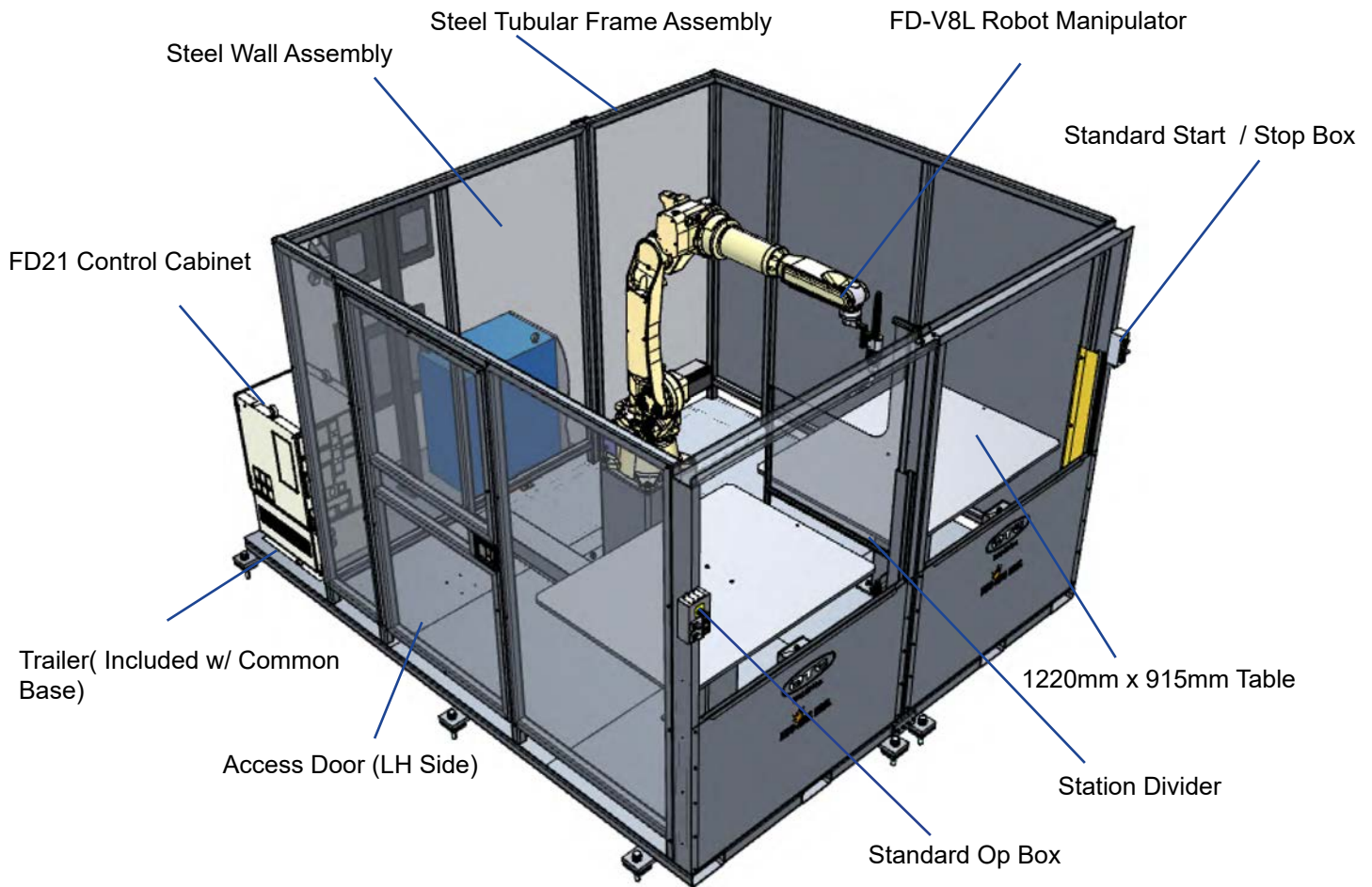
Available I/O Slots:

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



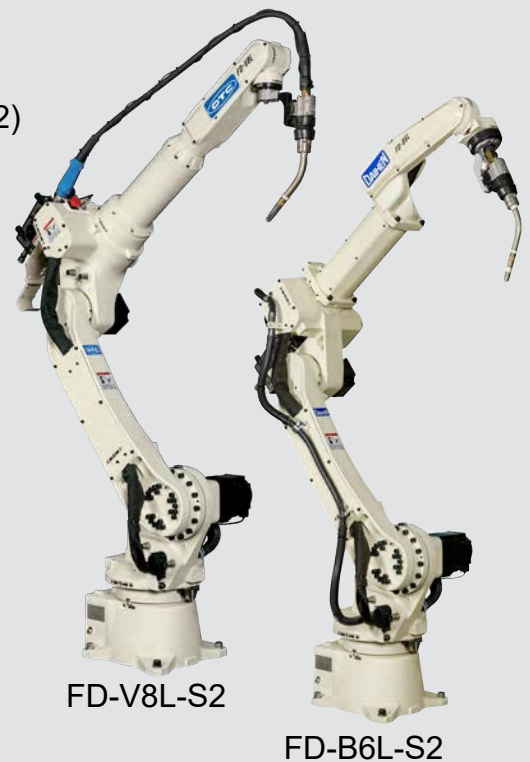
Standard Configuration:

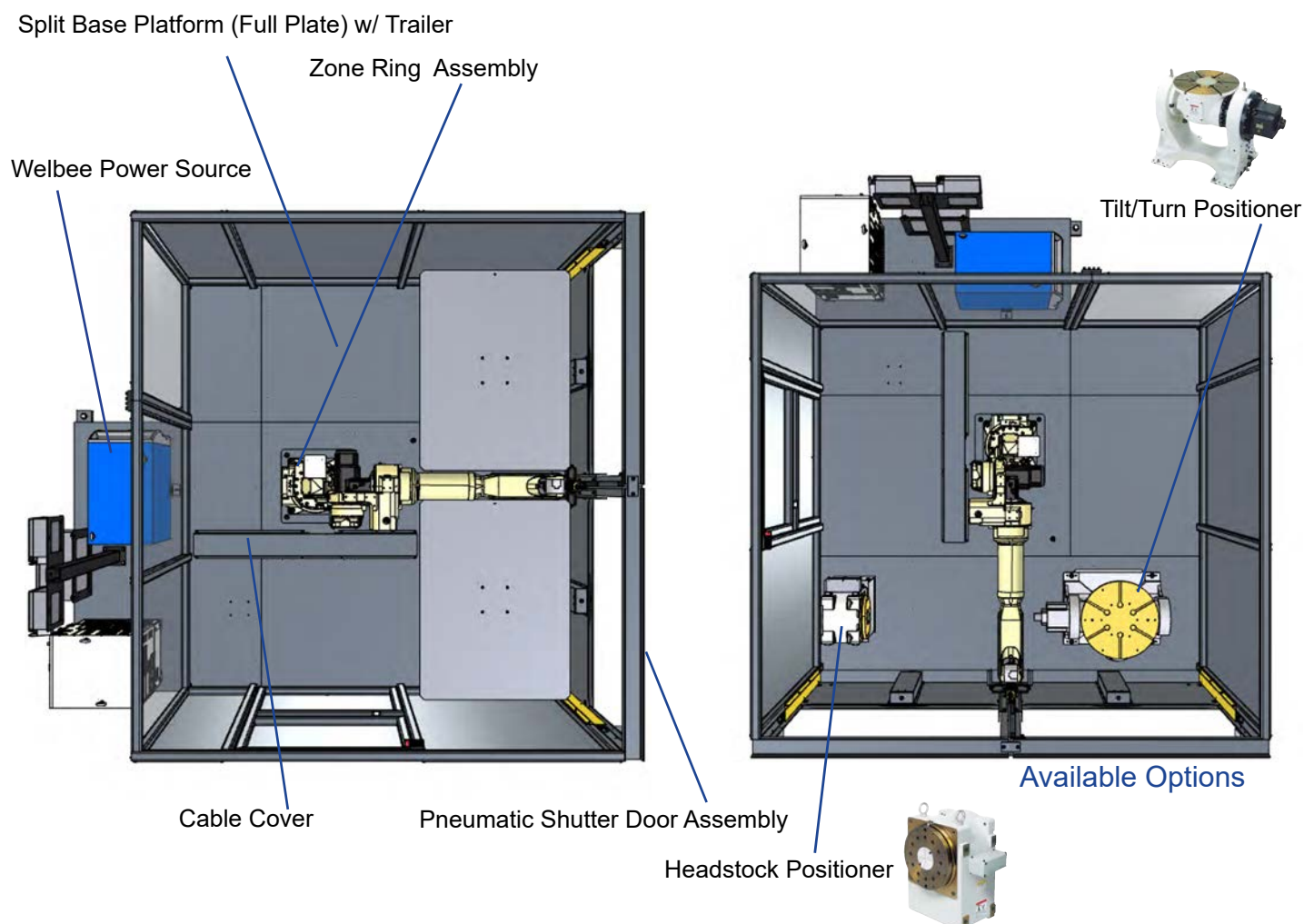
ECO-ARC 200L

2 stationary tables with long reach robot manipulator FD-V8L(S2)

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: 2960mm (116.5")
 Height: 2200mm (86.6")
 Depth: 3440mm (135.4")

Manipulator Types:

- FD-V8L-S2
- FD-B6L-S2

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

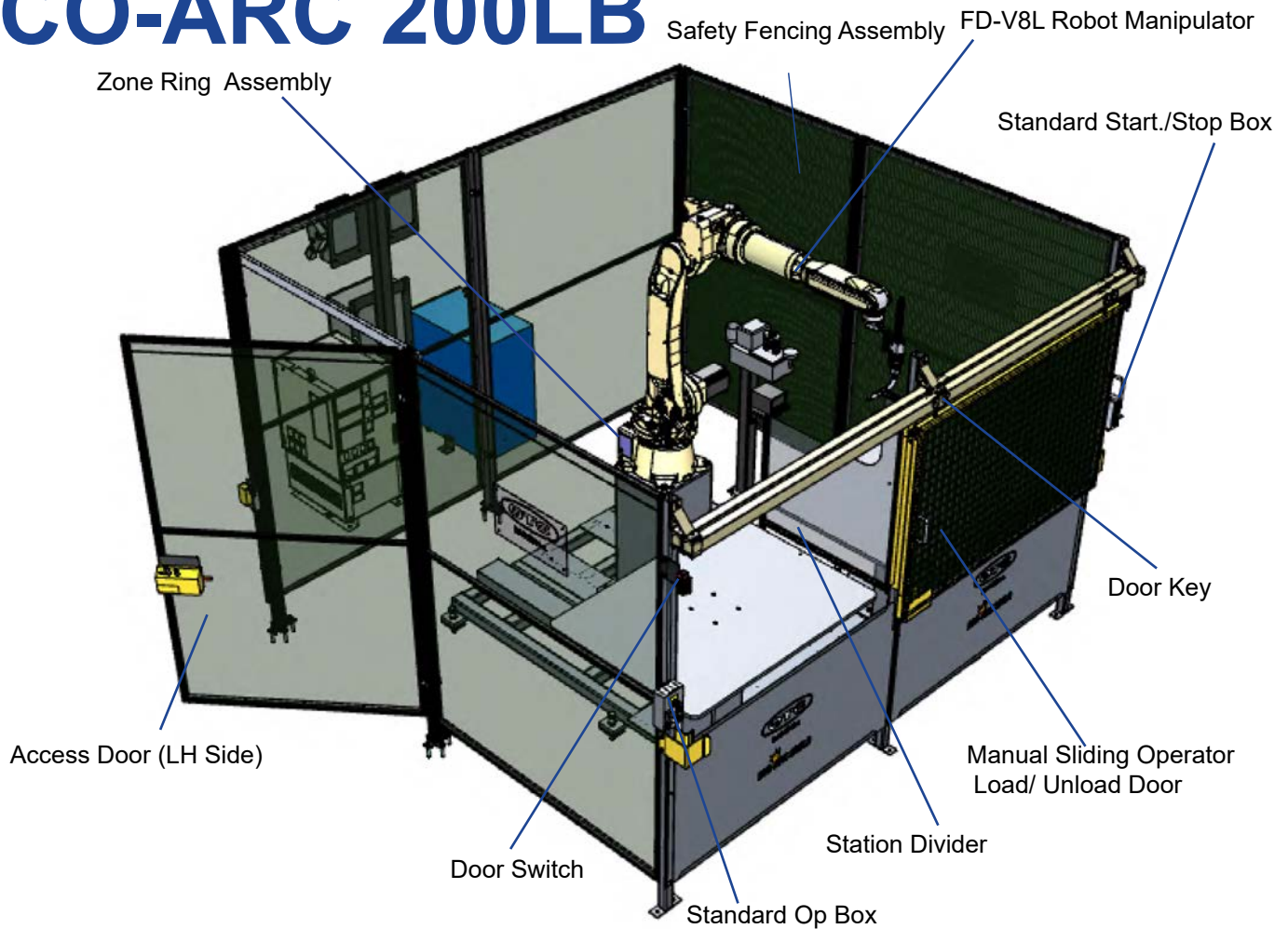
Available I/O Slots:

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



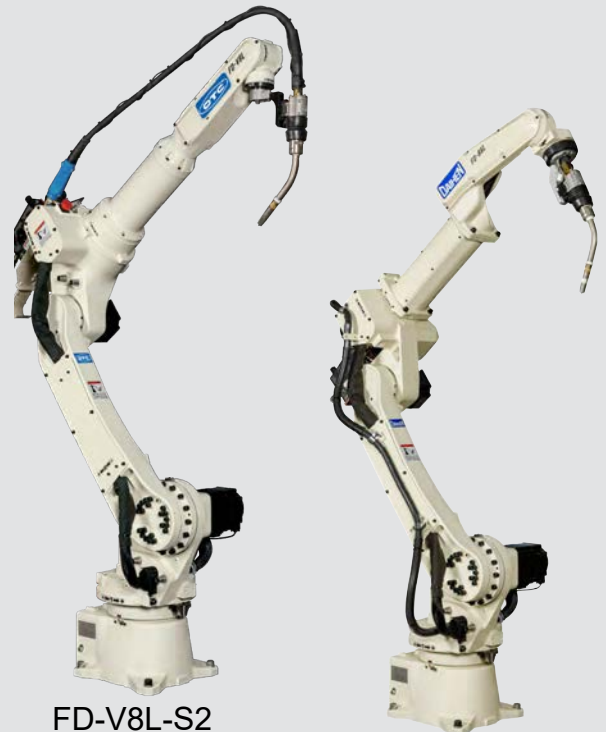
Standard Configuration:

ECO-ARC 200LB

2 stationary tables
with long reach robot manipulator FD-V8L-S2

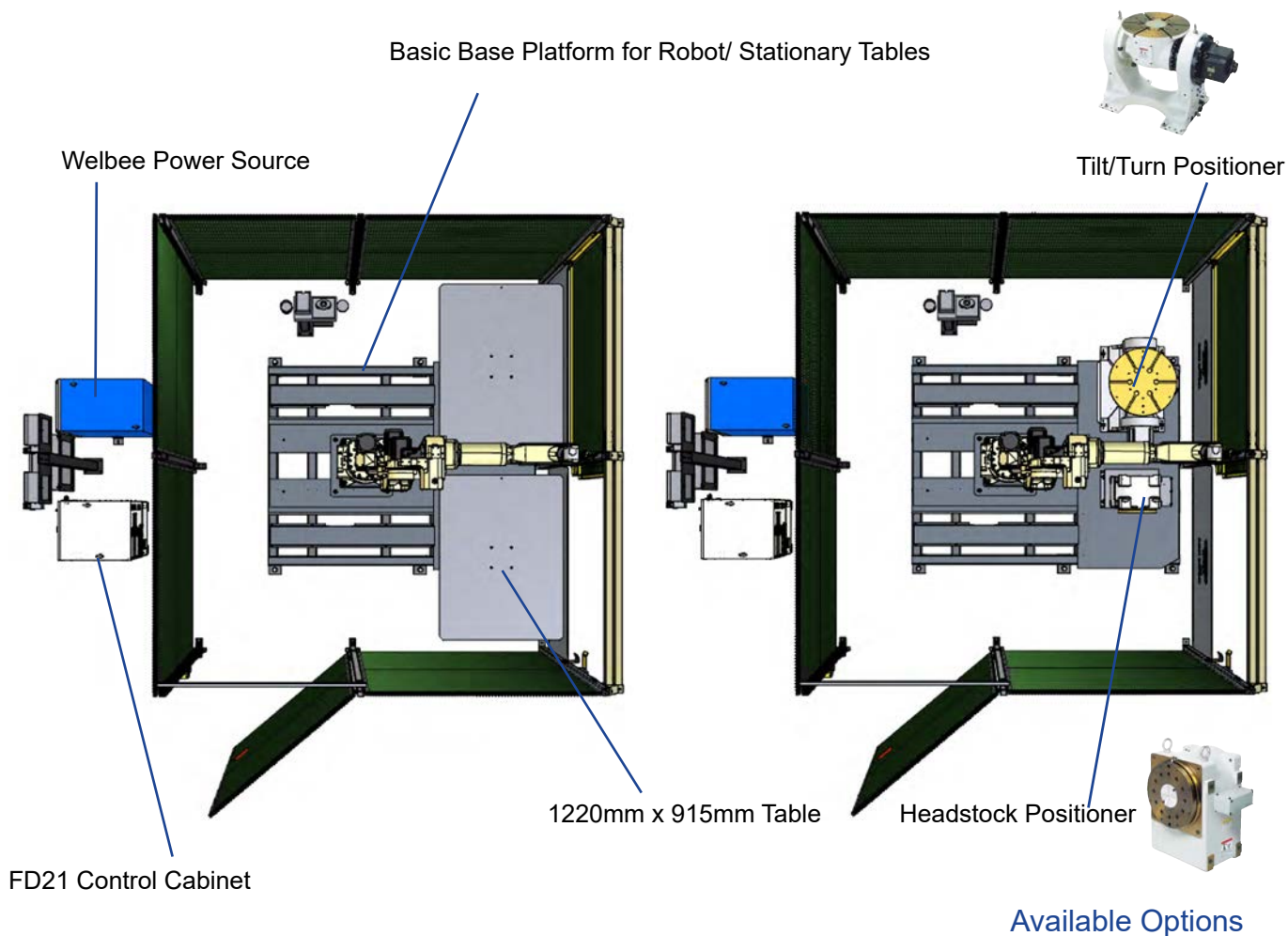
Details:

- 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



FD-V8L-S2

FD-B6L-S2



Specifications

Footprint Dimensions:

Width: 3294mm (129.7")
 Height: 2200mm (86.6")
 Depth: 3915mm (154.1")

Manipulator Types:

- FD-V8L-S2
- FD-B6L-S2

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

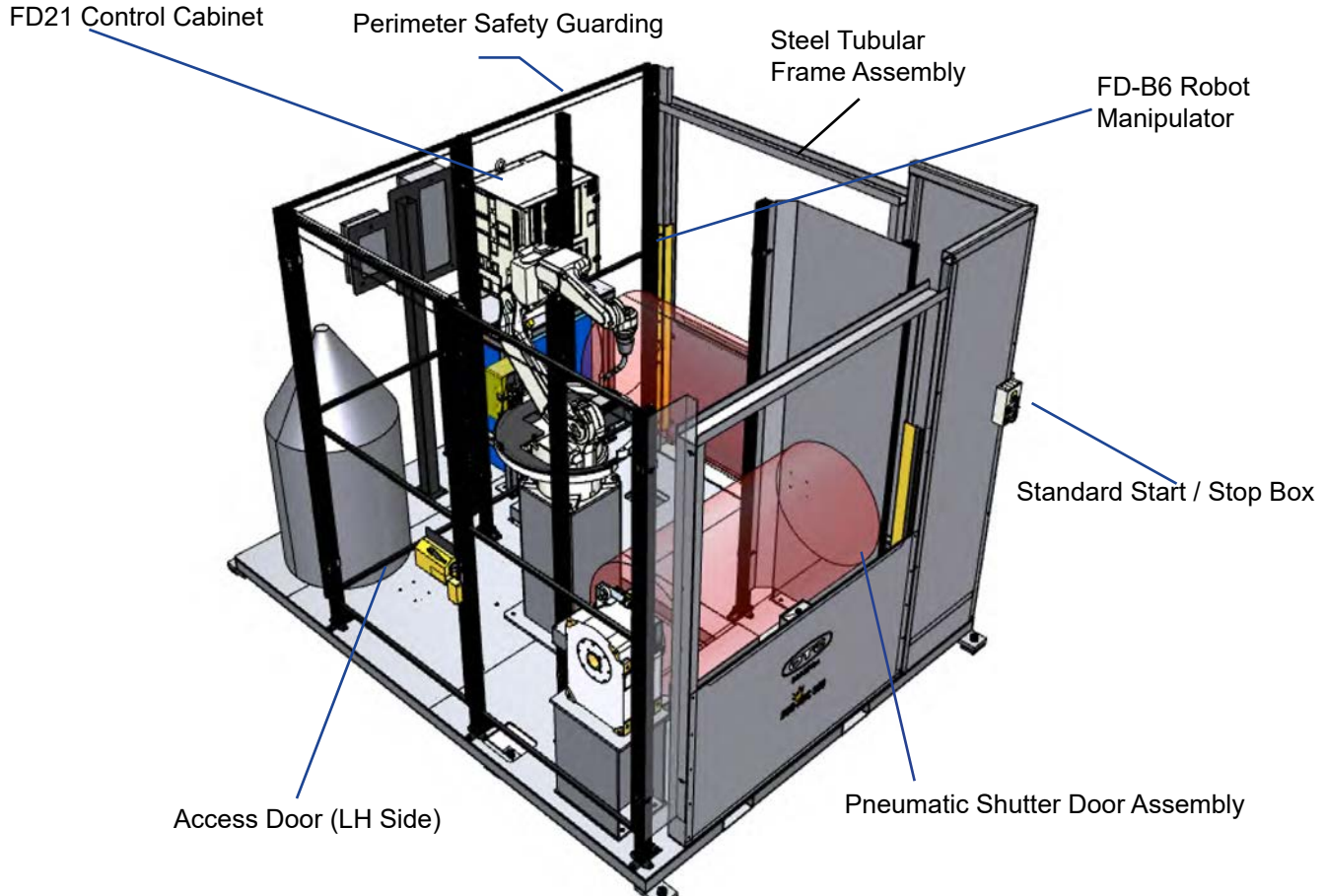
Available I/O Slots:

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)

ECO-ARC 290



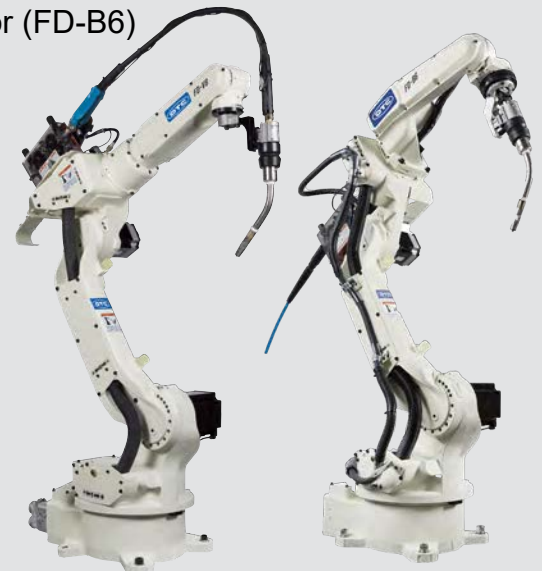
Standard Configuration:

ECO-ARC 290

2 Servo-controlled headstocks with standard robot manipulator (FD-B6)

Details

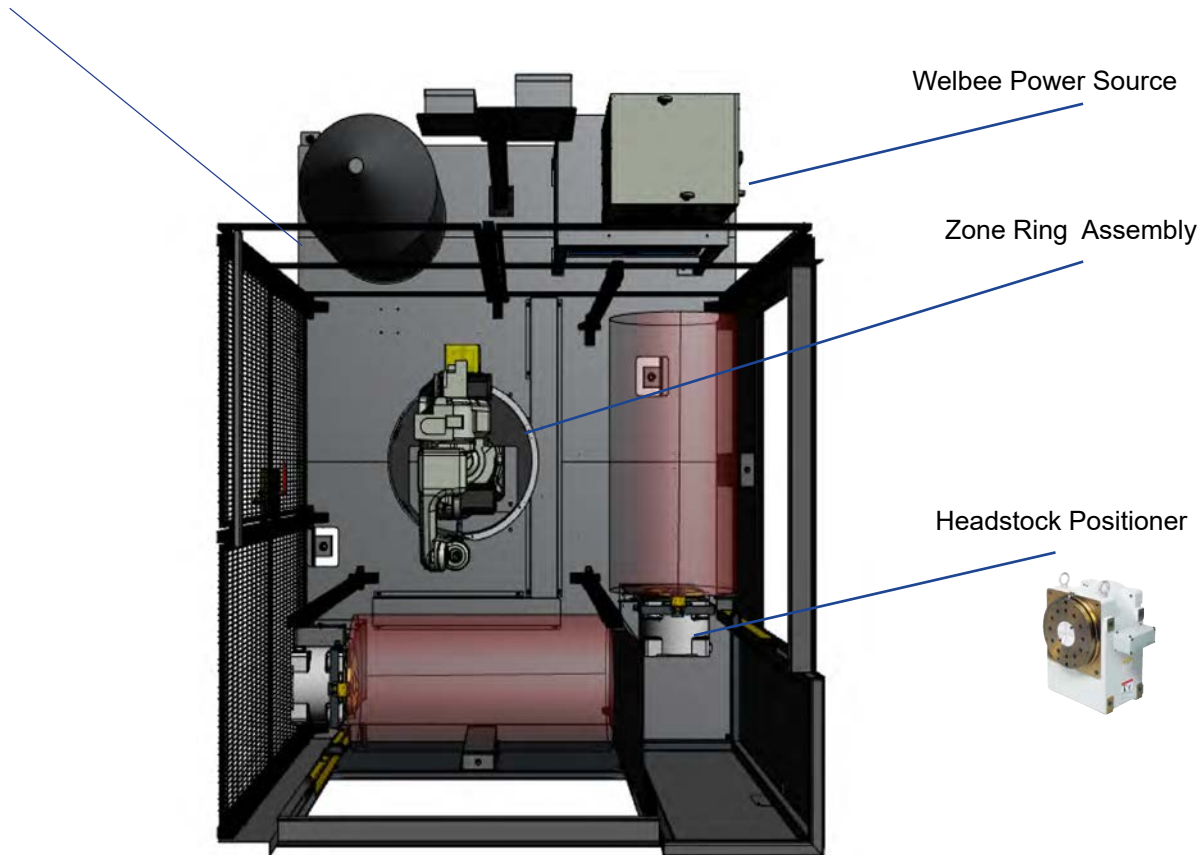
- Pneumatic shutter doors
- Zone Ring for station designation
- Standard fork lift pockets in base for easy movement
- Steel wall station divider
- Weight - Approx. 2500kg
- Maximum span: 1219.2mm (48")
- Maximum swing: 609.6mm (24")



FD-V8

FD-B6

Common Base Platform (Full Plate) W/Trailer



Specifications

Footprint Dimensions:

Width: 2350mm (92.5")
Height: 2329mm (91.7")
Depth: 3200mm (126.0")

Manipulator Types:

- FD-V8
- FD-B6

Cell Options:

- 2 Stationary tables
- Positioner/Table
- 2 Positioners

Headstock Options:

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

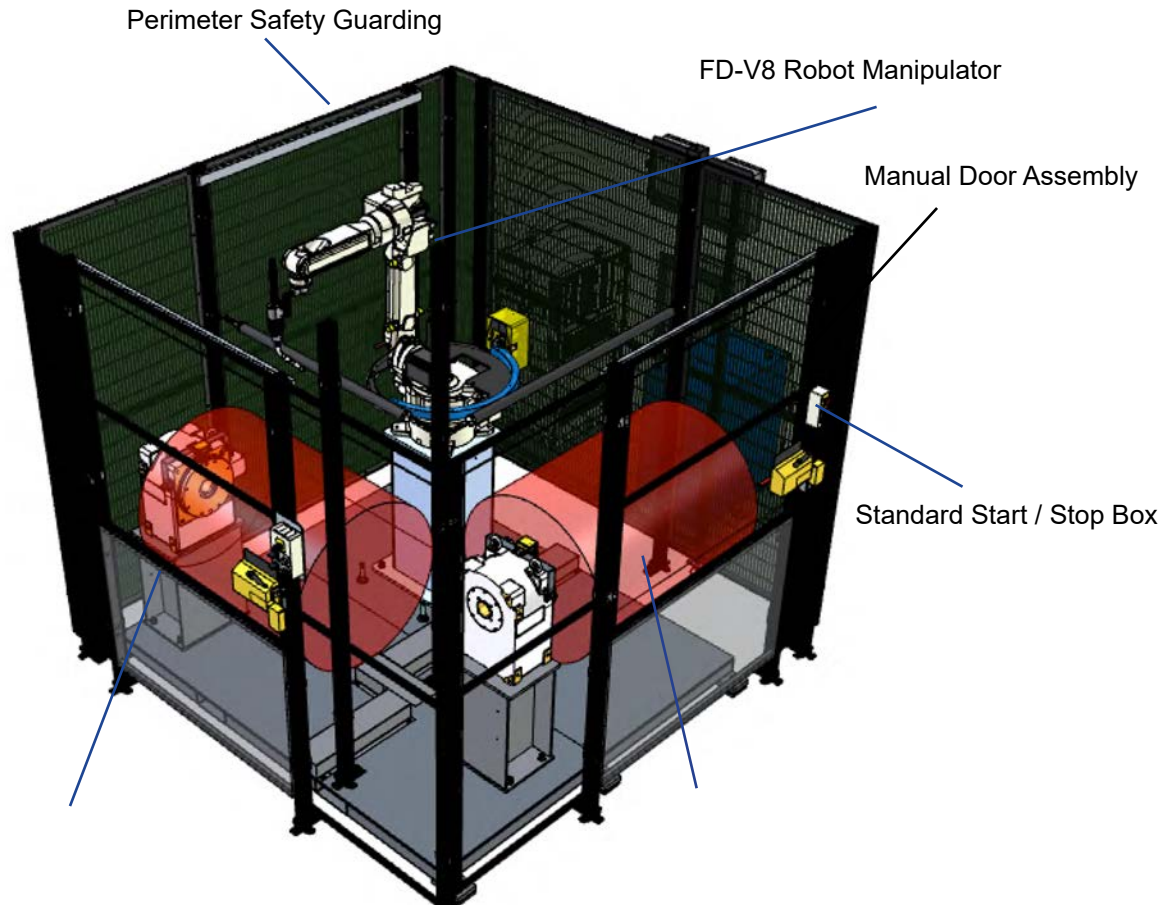
Available I/O Slots:

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

Other Options:

- Access Door on RH Side
- Manual Sliding Door Assembly
- Station Lighting
- Torch Cleaning Station
- Extended I/O

ECO-ARC 290B



Standard Configuration:

ECO-ARC 290B

2 Servo-controlled headstocks with standard robot manipulator (FD-V8)

Details

- Pneumatic shutter doors
- Zone Ring for station designation
- Standard fork lift pockets in base for easy movement
- Steel wall station divider
- Weight - Approx. 2000kg
- Maximum span: 1016mm (40")
- Maximum swing: 762mm (30")



FD-V8

FD-B6

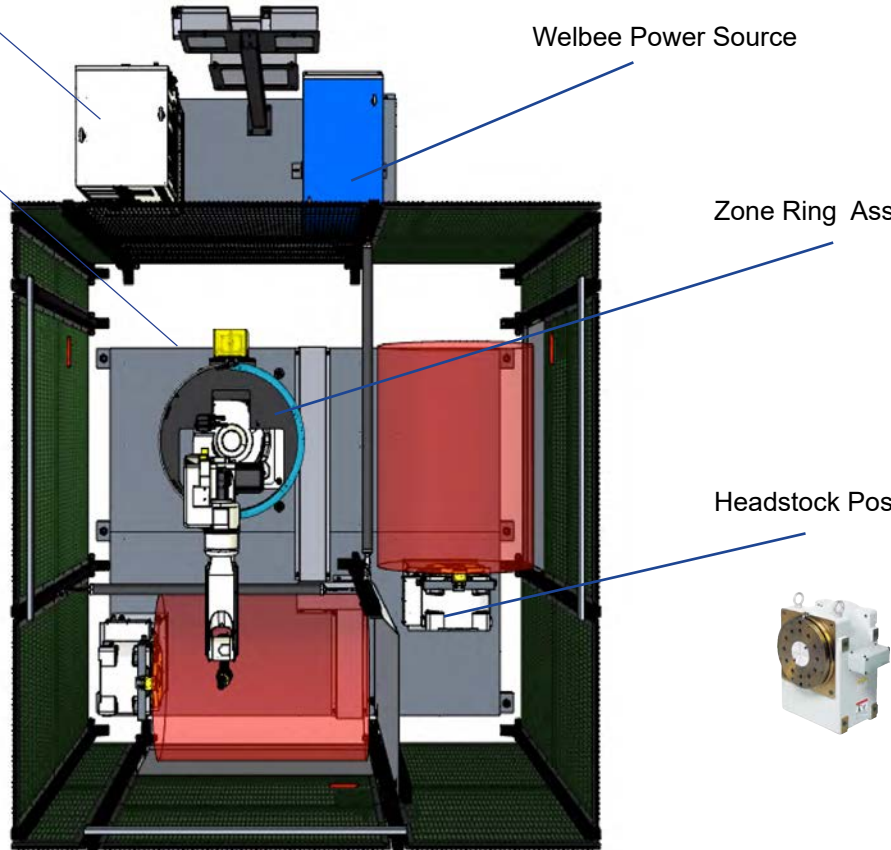
Common Base Platform (Full Plate) W/Trailer

FD21 Control Cabinet

Welbee Power Source

Zone Ring Assembly

Headstock Positioner



Specifications

Footprint Dimensions:

Width: 2590mm (102.0")

Height: 2331mm (91.8")

Depth: 3594mm (141.5")

Manipulator Types:

- FD-V8
- FD-B6

Available I/O Slots:

28 Inputs/26 Outputs

(Additional Power Supply needed for Outputs)

Cell Options:

- 2 Stationary tables
- Positioner/Table
- 2 Positioners

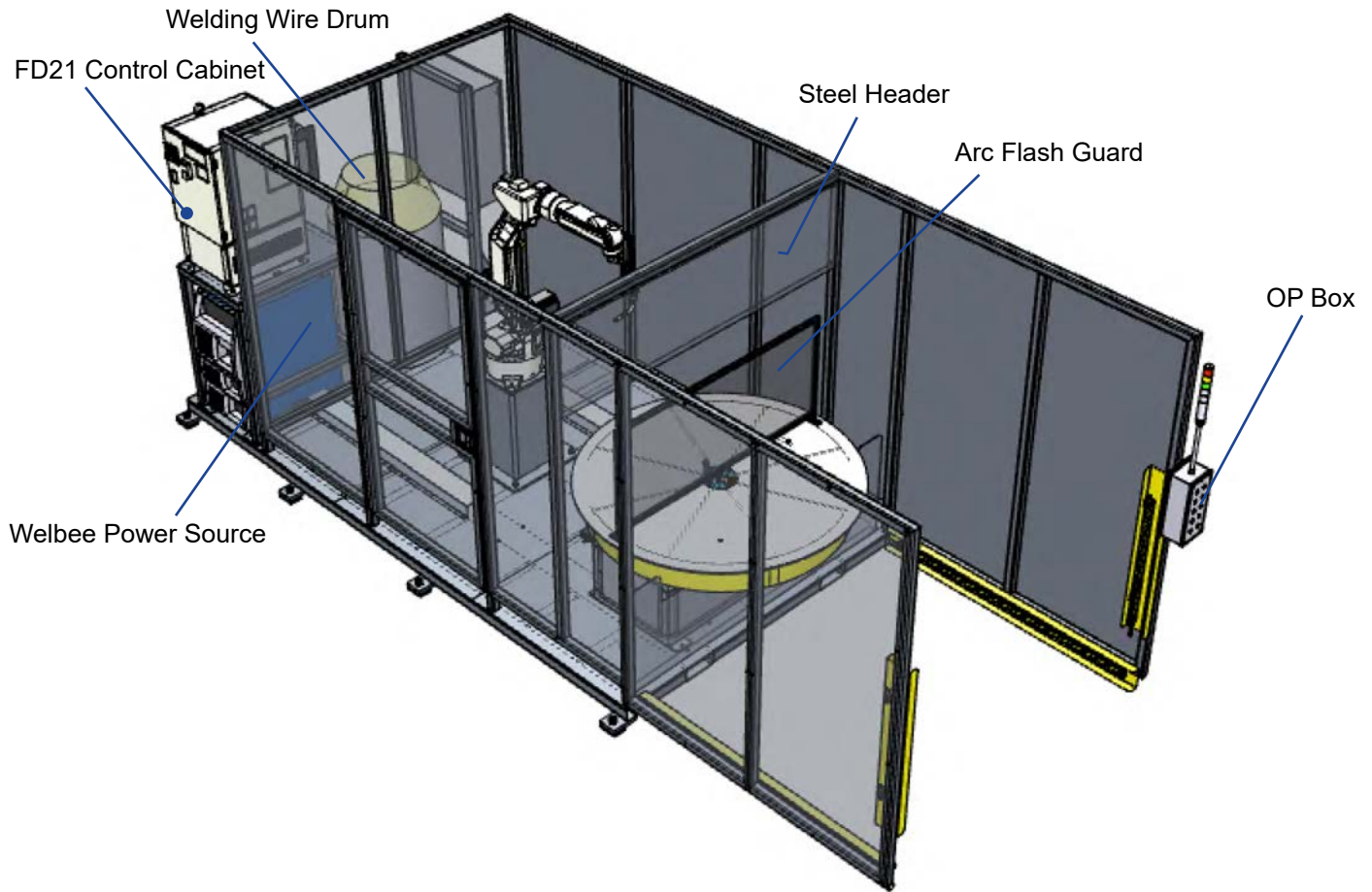
Other Options:

- Access Door on RH Side
- Station Lighting
- Torch Cleaning Station
- Extended I/O

Headstock Options:

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

PT-ARC 600



Standard Configuration:

PT-ARC 600

60" pneumatic indexing table

Details:

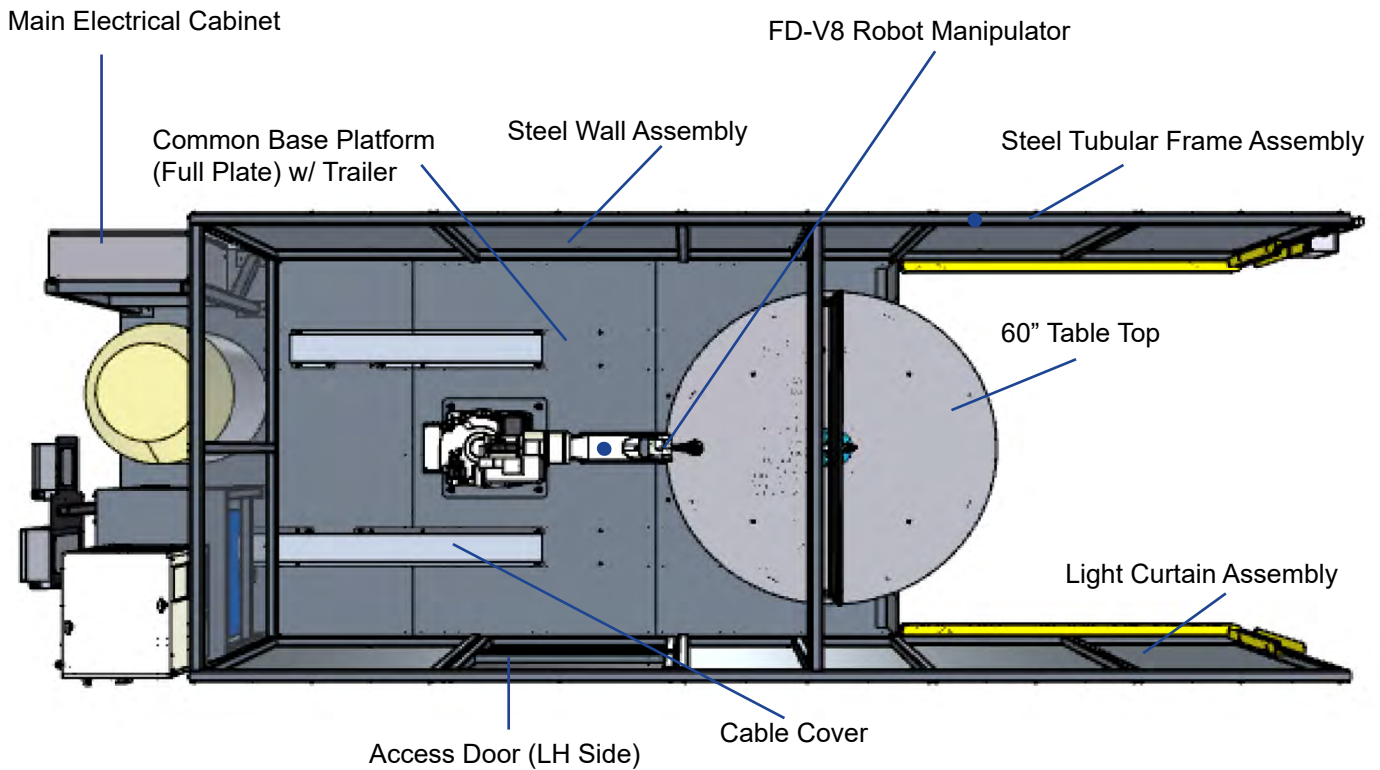
- Index Speed (180°) - 4.2 seconds
- Work Capacity – 250kg/side
- Weight – Approx. 3500kg
- Standard fork lift pockets
- Rack and Pinion Design



FD-V8



FD-B6



Specifications

Footprint Dimensions:

Width: 2200mm (86.6")
 Height: 2235mm (88.0")
 Depth: 5511mm (217.0")

Available I/O Slots:

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

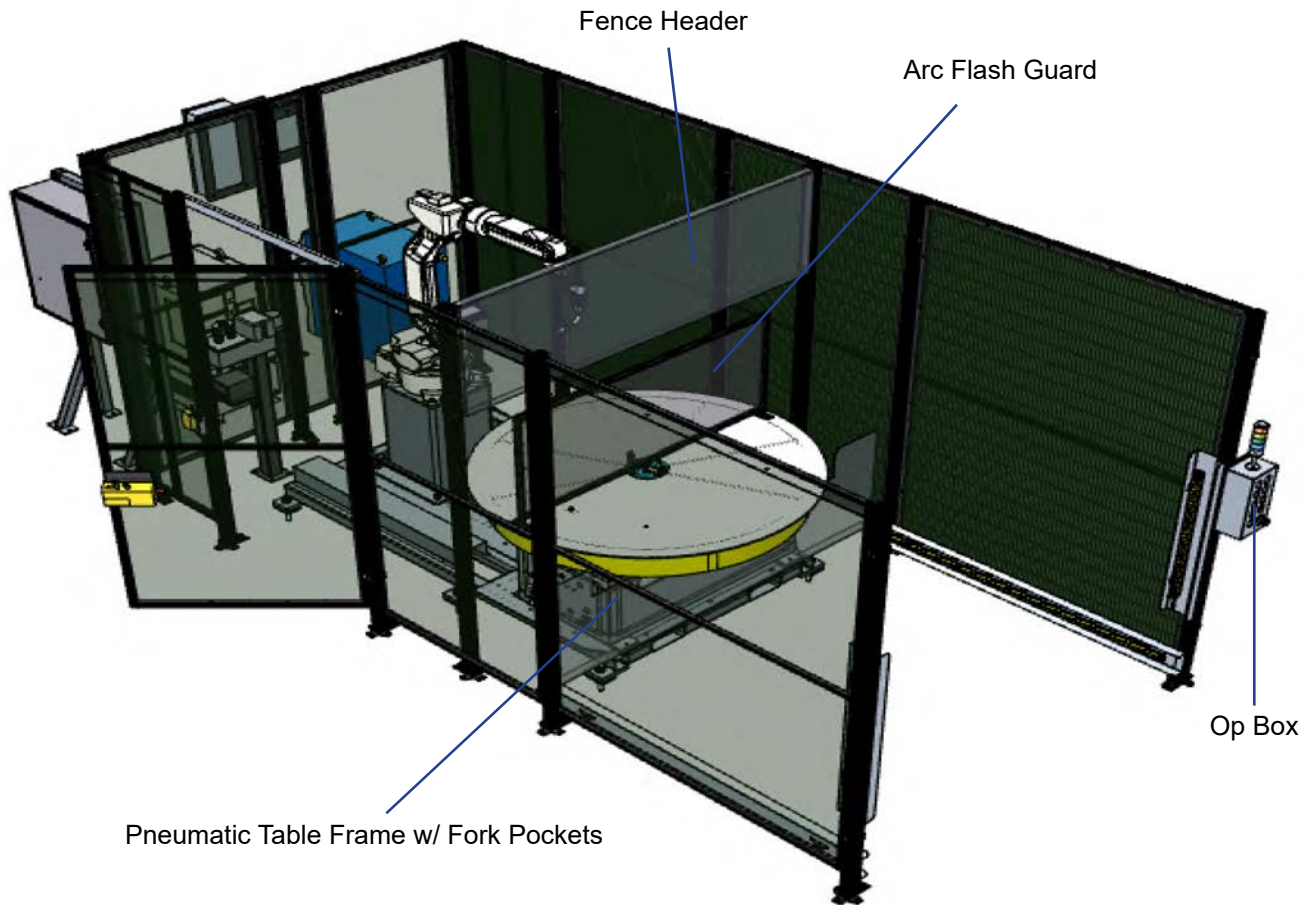
Manipulator Types:

- FD-V8
- FD-B6

Other 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 Configuration:

PT-ARC 600B

60" pneumatic indexing table

Details:

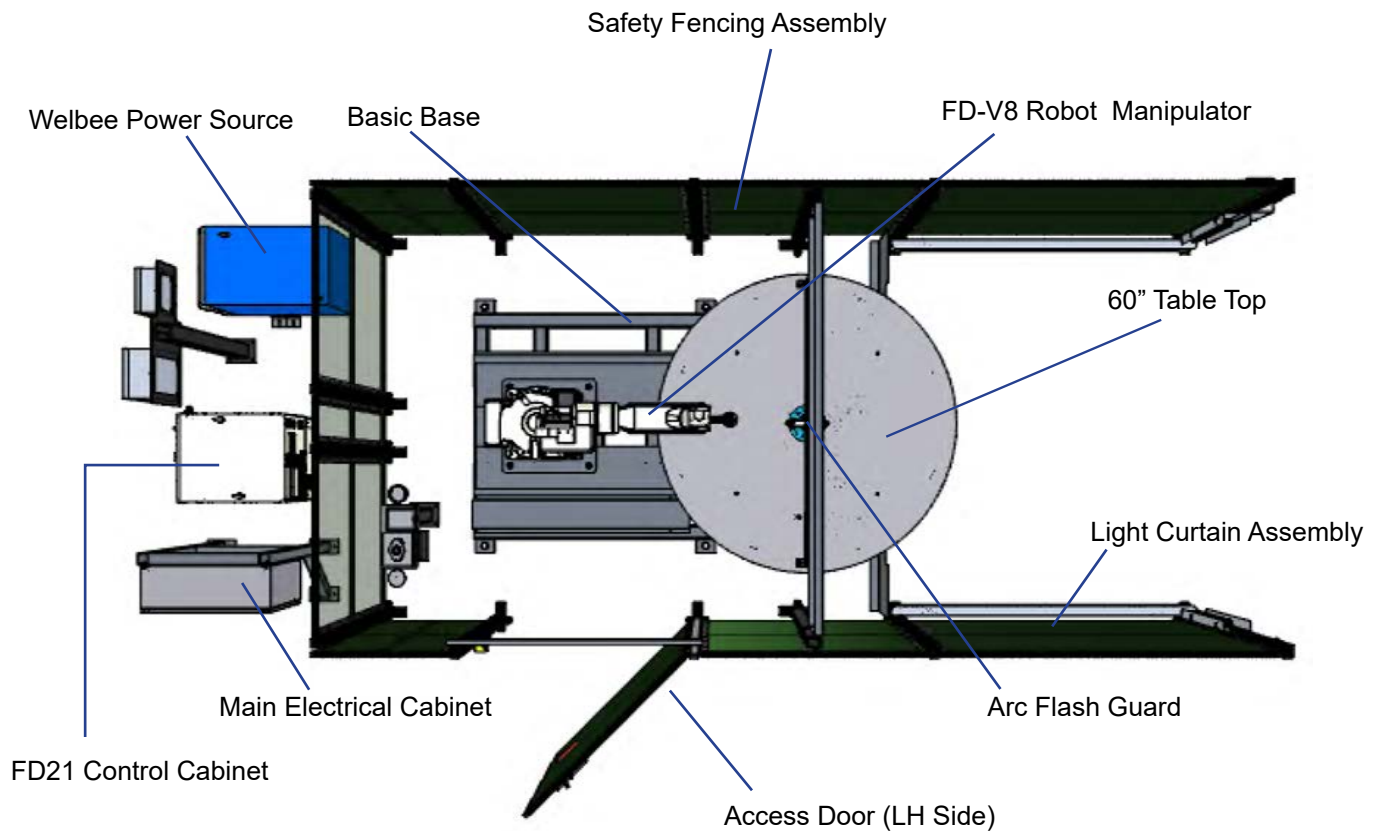
- Index speed (180°) - 4.2 seconds
- Work capacity – 250kg/side
- Weight - approx. 2000kg
- Standard fork lift pockets
- Rack and pinion design
- Floor mounted safety fencing w/ arc flash curtains



FD-V8



FD-B6



Specifications

Footprint Dimensions:

Width: 2263mm (89.1")
Height: 2200mm (86.6")
Depth: 5406mm (212.8")

Manipulator Types:

- FD-V8
- FD-B6

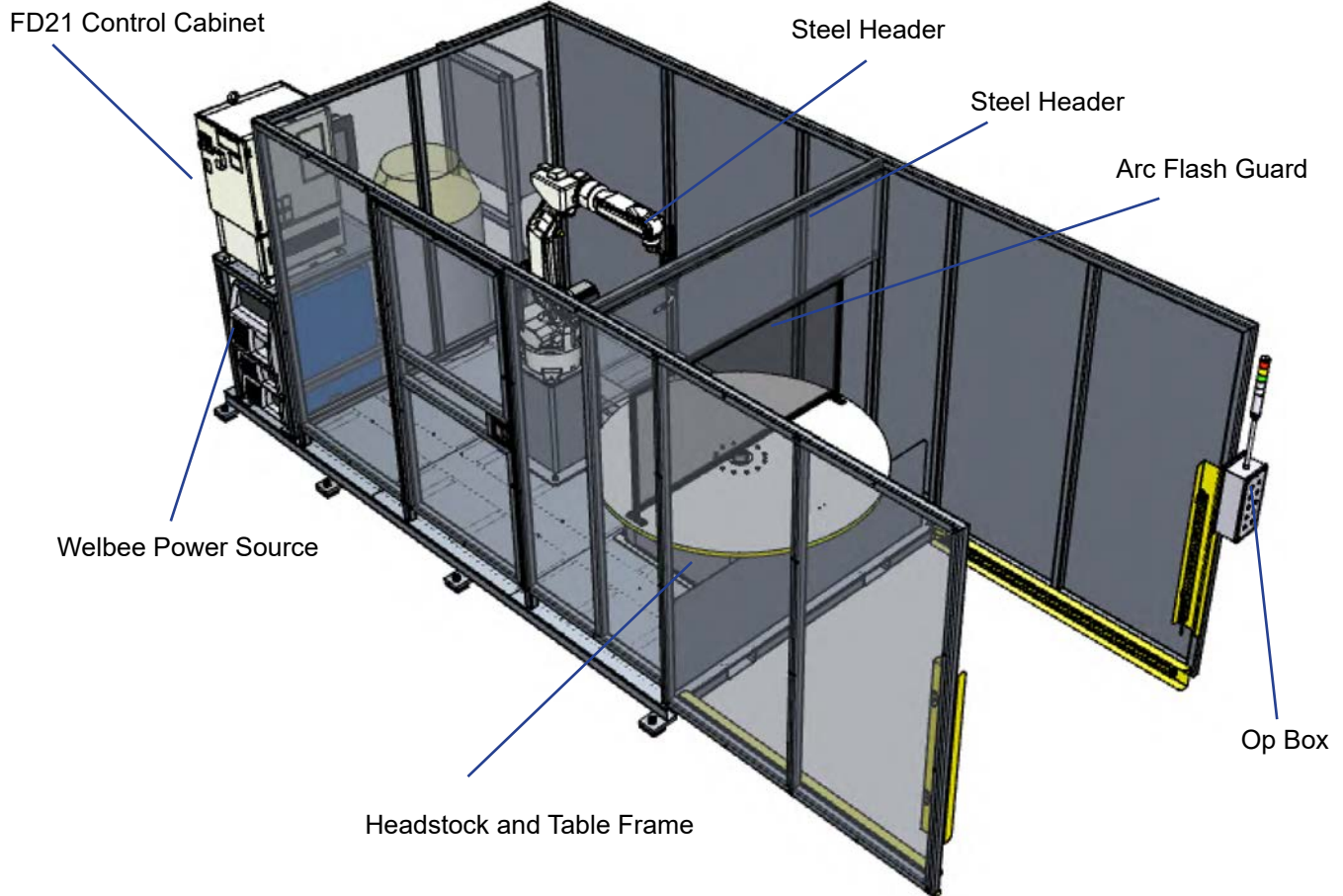
Available I/O Slots:

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

Other 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 Configuration:

SERVO-ARC 600

60" servo-driven indexing table

Details:

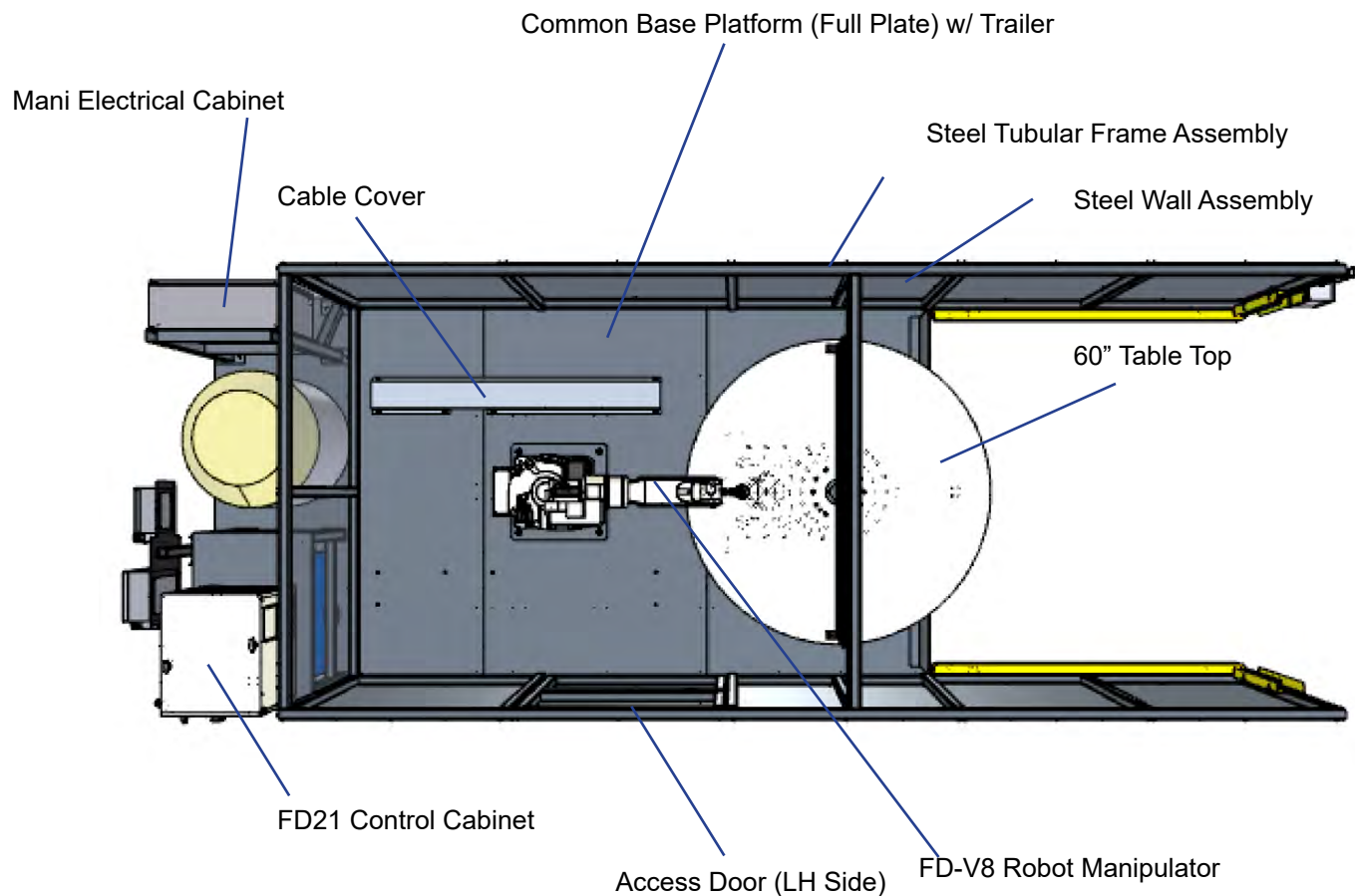
- 3" Through hole diameter in table top
- Index speed (180°) - 4.2 Seconds
- Work capacity – 250kg/side
- Weight – approx. 3000kg
- Standard fork lift pockets



FD-V8



FD-B6



Specifications

Footprint Dimensions:

Width: 2200mm (86.6")
 Height: 2235mm (88.0")
 Depth: 5511mm (217.0")

Available I/O Slots:

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

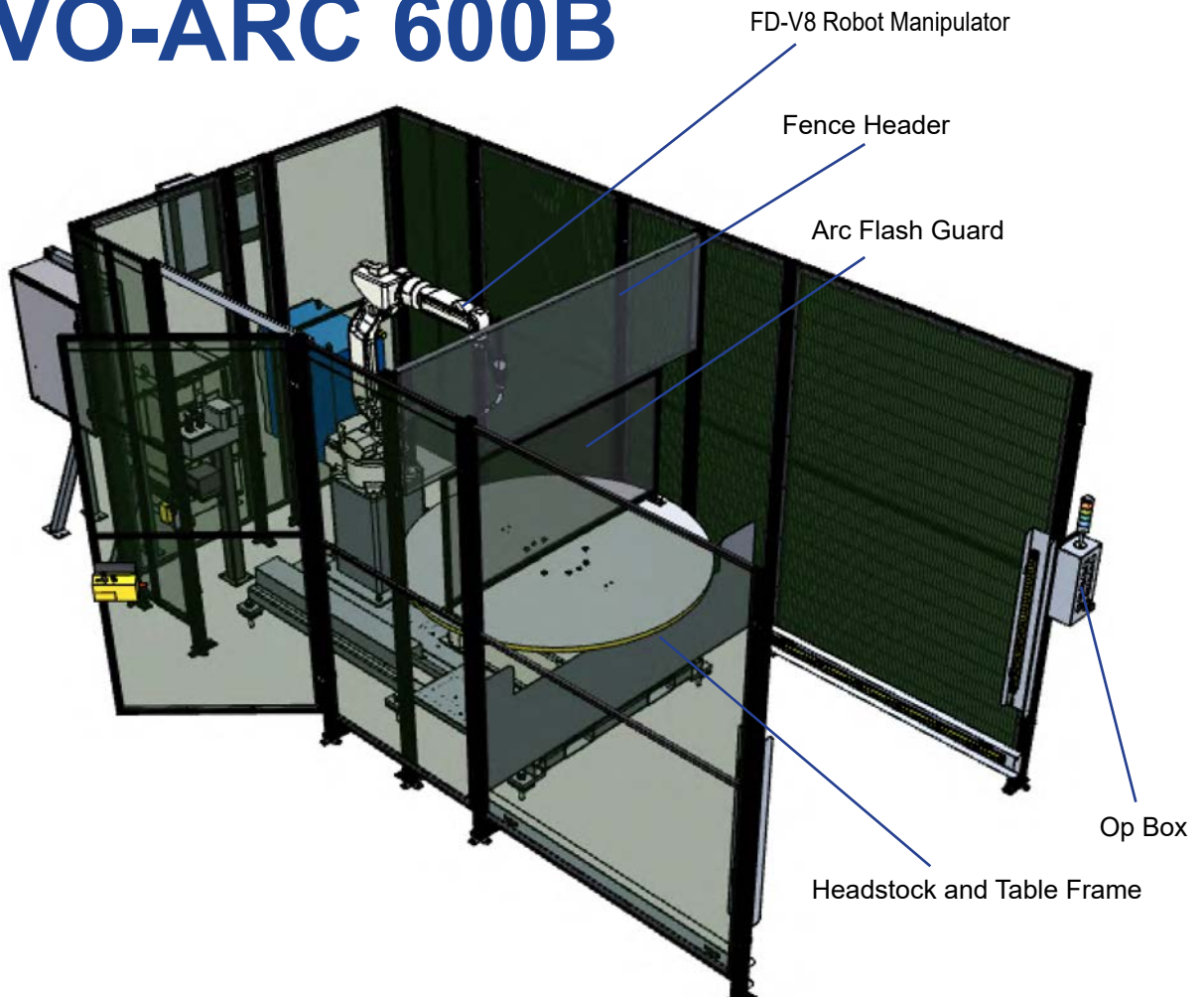
Manipulator Types:

- FD-V8
- FD-B6

Other 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
- Basic layout (servo-arc 600B)
- Extended i/o

SERVO-ARC 600B



Standard Configuration:

SERVO-ARC 600B

60" servo-driven indexing table

Details:

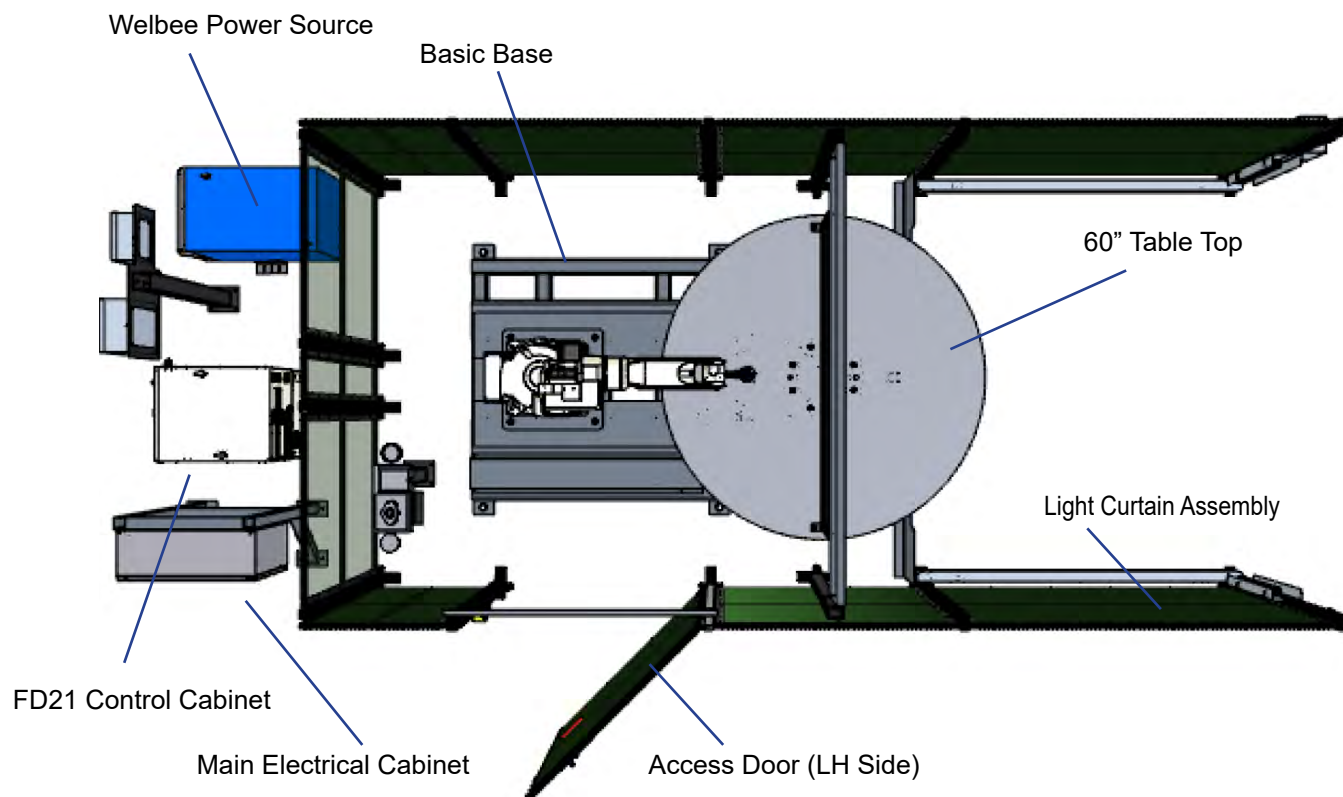
- 3" Through hole diameter in table top
- Index speed (180°) - 4.2 Seconds
- Work capacity – 250 kg/side
- Weight – approx. 2000kg
- Standard fork lift pockets
- A2PB-1000 headstock instead of servo-table
- Floor mounted safety fencing w/ arc flash curtains



FD-V8



FD-B6



Specifications

Footprint Dimensions:

Width: 2263mm (89.1")
 Height: 2200mm (86.6")
 Depth: 5406mm (212.8")

Available I/O Slots:

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

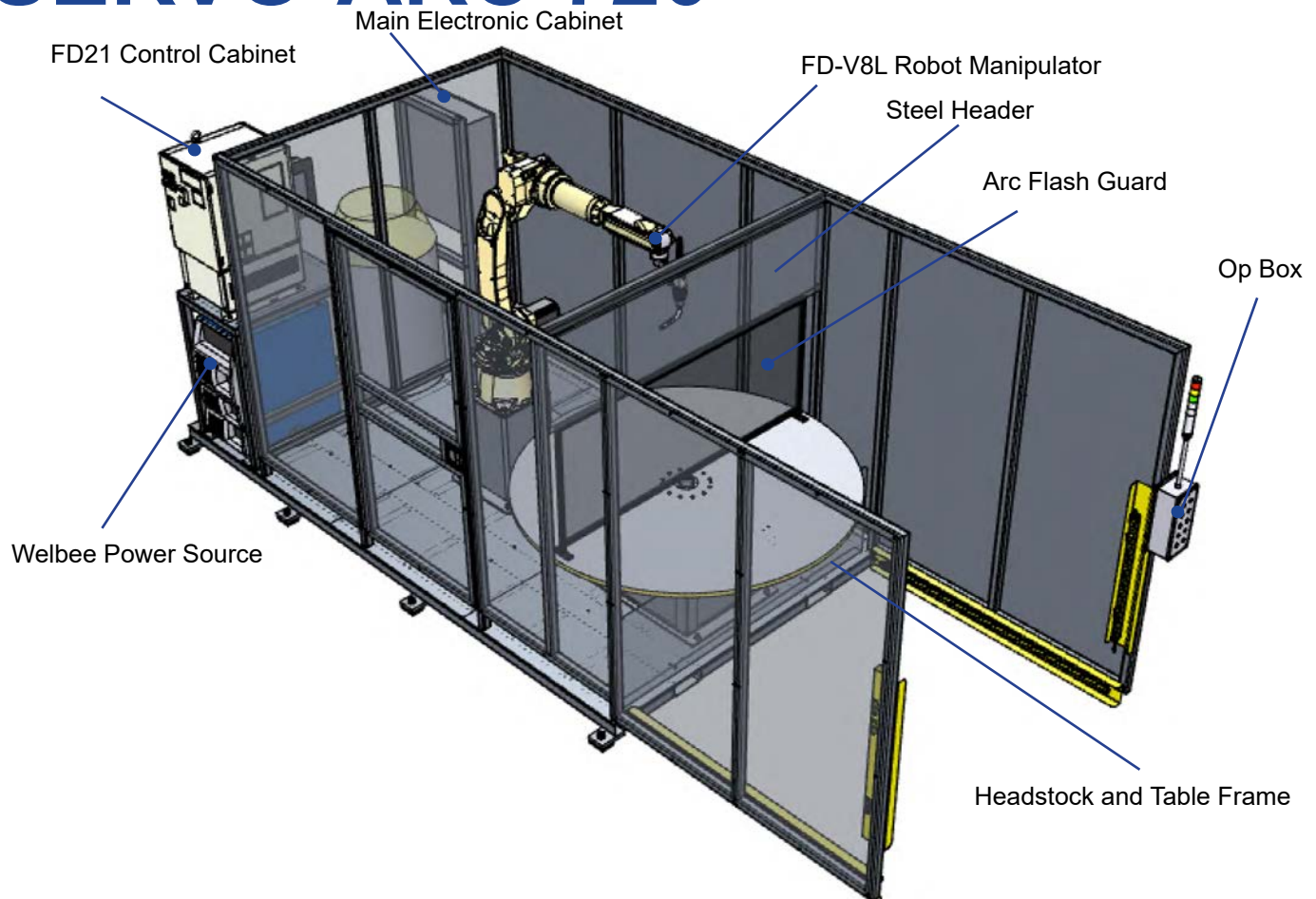
Manipulator Types:

- FD-V8
- FD-B6

Other Options:

- Fixture mounting pattern in table top
- Torch cleaning station
- Station lighting
- Access door on rh side
- Safety fence on full base
- Standard layout (servo-arc 600)
- Extended i/o
- Trailer (base)

SERVO-ARC 720



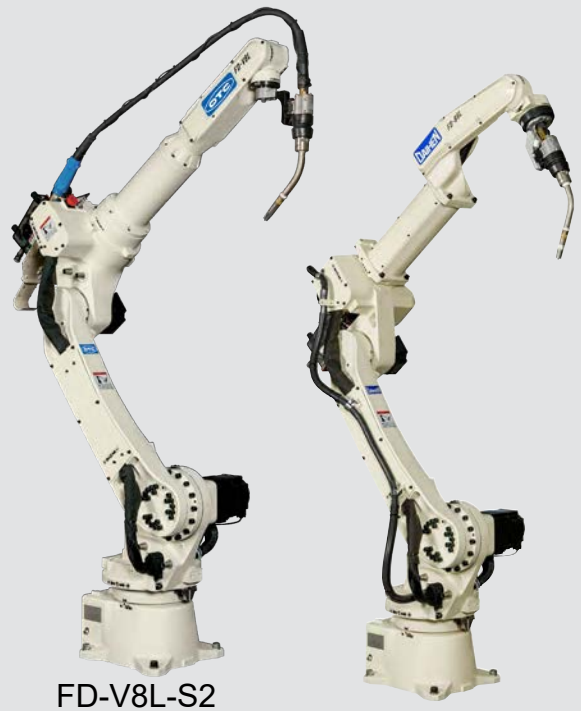
Standard Configuration:

SERVO-ARC 720

72" servo-driven indexing table

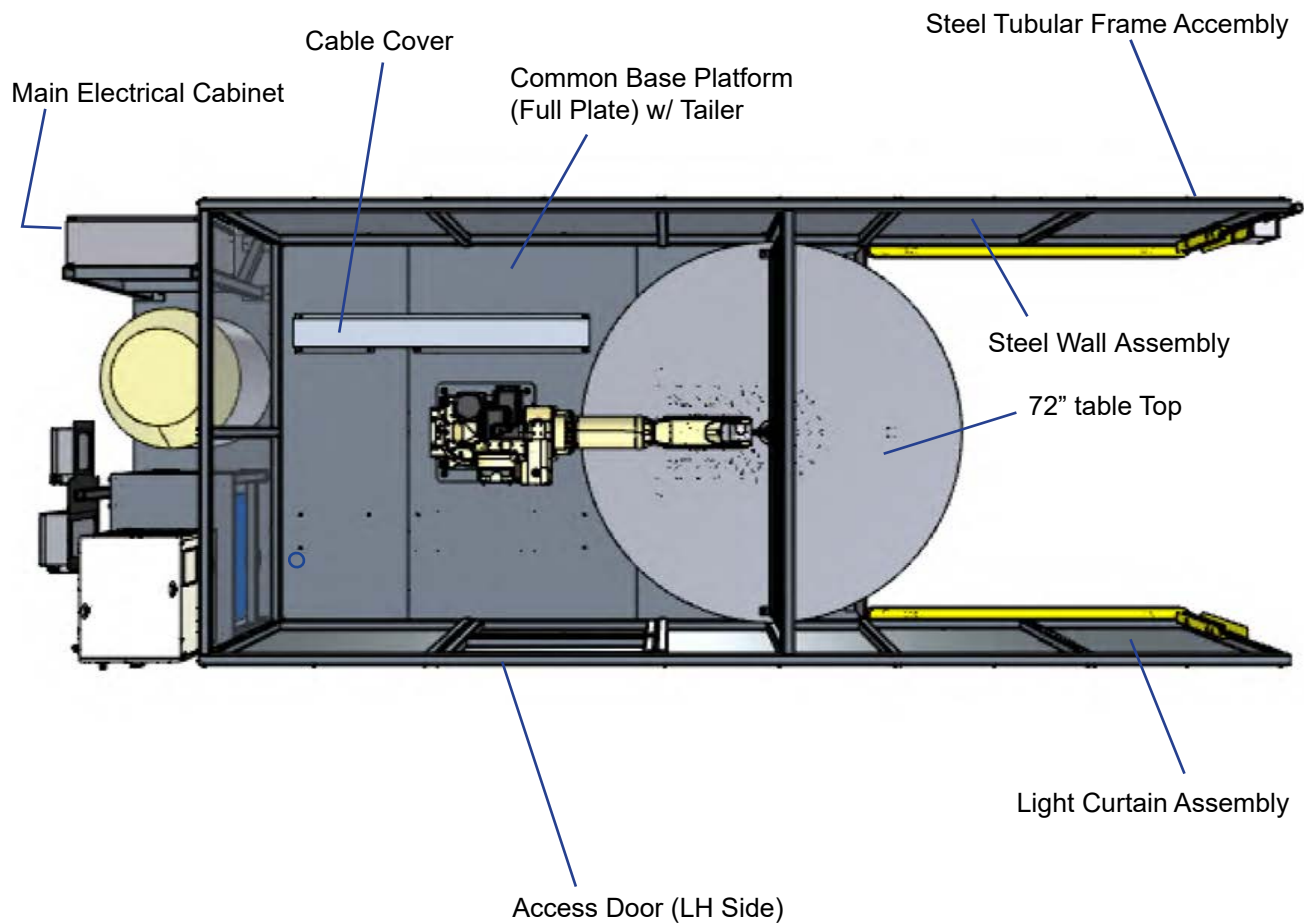
Details:

- 3" through hole diameter in table top
- Index Speed (180°) - 4.2 seconds
- Work capacity – 250kg/side
- Weight – approx. 3200kg
- Standard fork lift pockets



FD-V8L-S2

FD-B6L-S2



Specifications

Footprint Dimensions:

Width: 2200mm (86.6")
 Height: 2235mm (88.0")
 Depth: 5511mm (217.0")

Available I/O Slots:

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

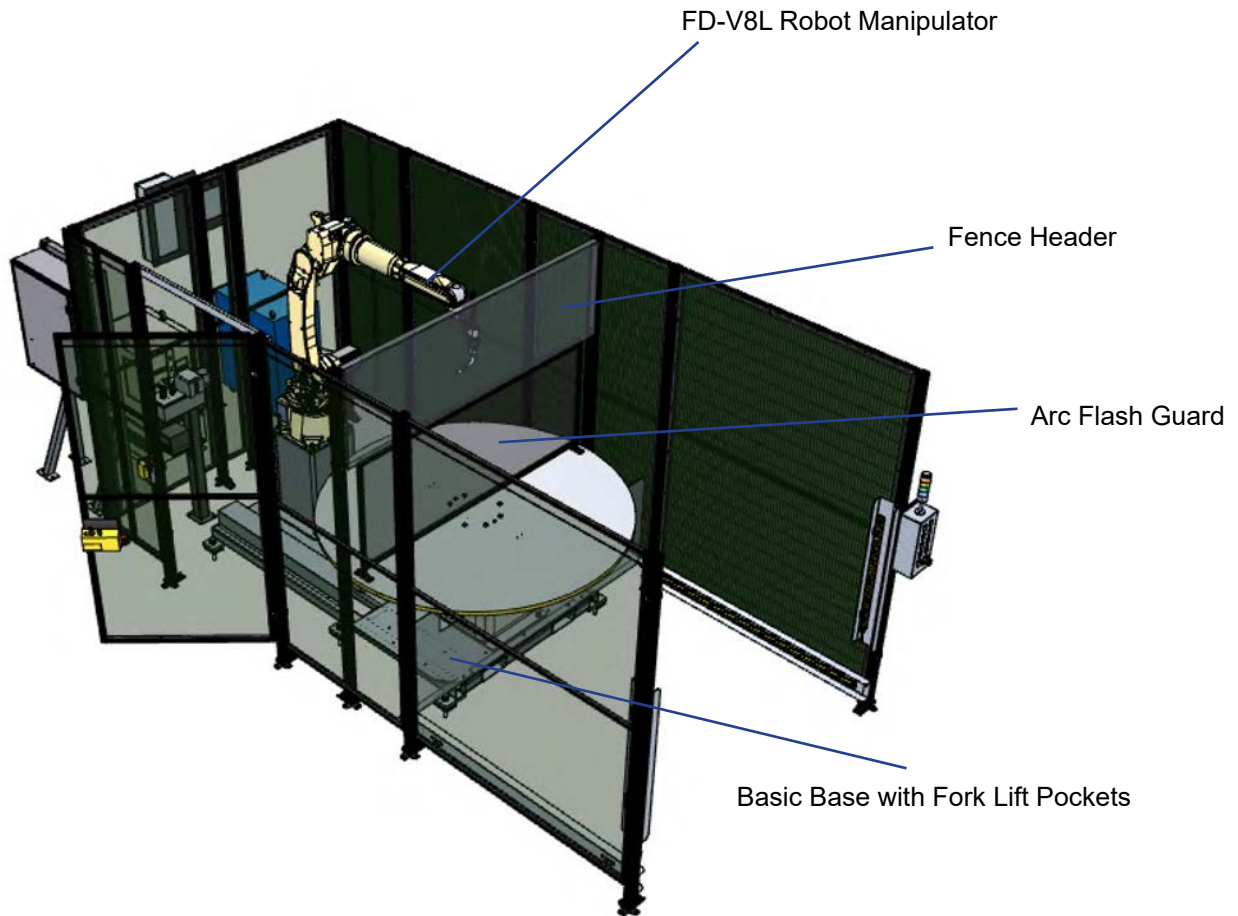
Manipulator Types:

- FD-V8
- FD-V8L-S2
- FD-B6
- FD-B6L-S2

Other 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



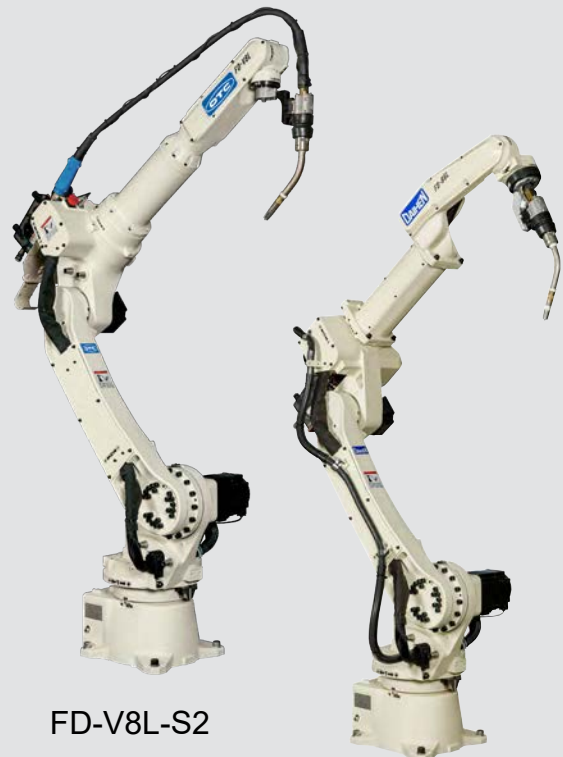
Standard Configuration:

SERVO-ARC 720B

72" servo-driven indexing table

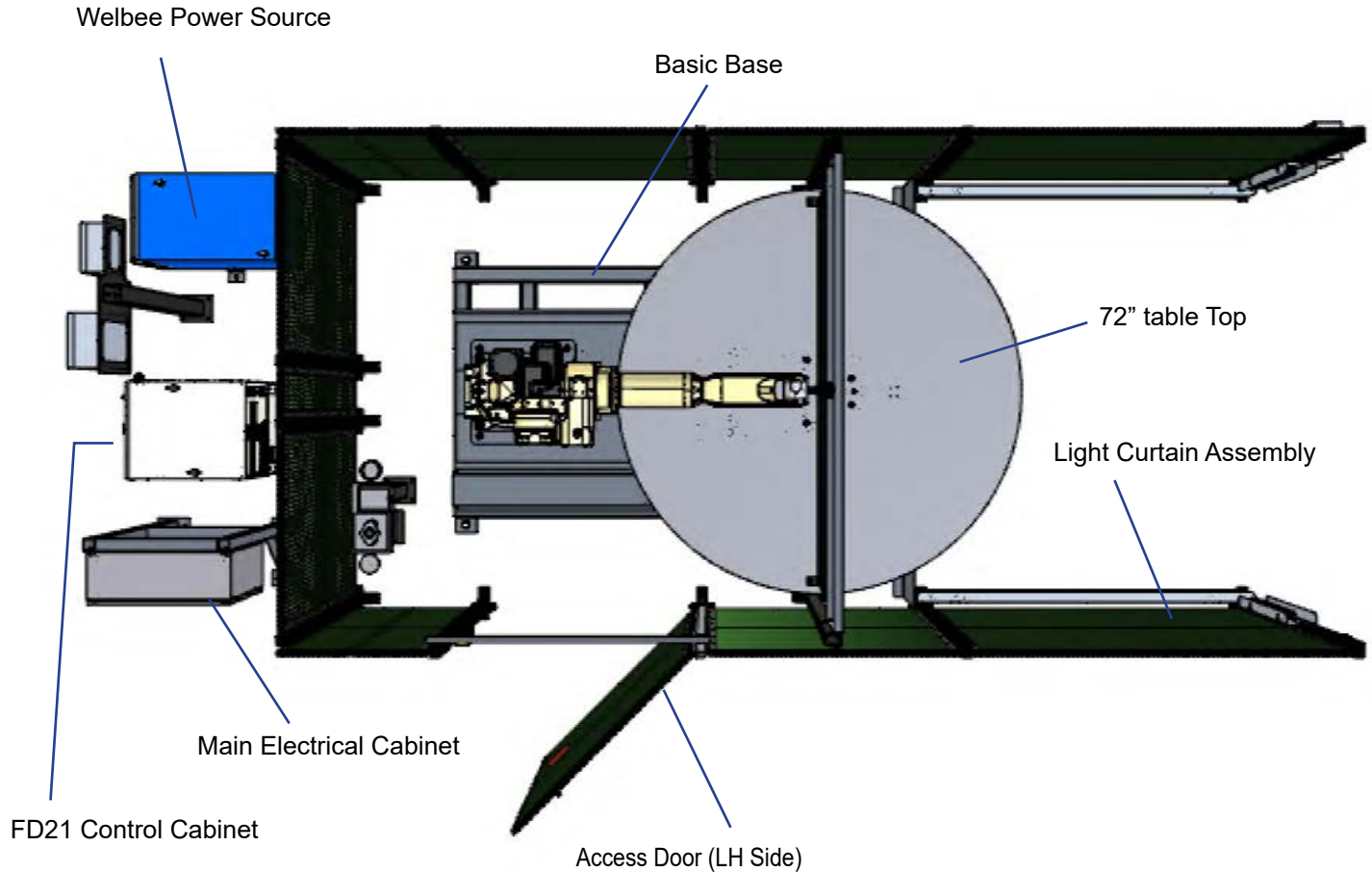
Details:

- 3" through hole diameter in table top
- Index speed (180°) - 4.2 Seconds
- Work capacity – 250 kg/side
- Weight – approx. 2200 kg
- Standard fork lift pockets
- A2PB-1000 headstock instead of servo-table
- Floor mounted safety fencing w/ arc flash curtains



FD-V8L-S2

FD-B6L-S2



Specifications

Footprint Dimensions:

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

Manipulator Types:

- FD-V8
- FD-V8L-S2
- FD-B6
- FD-B6L-S2

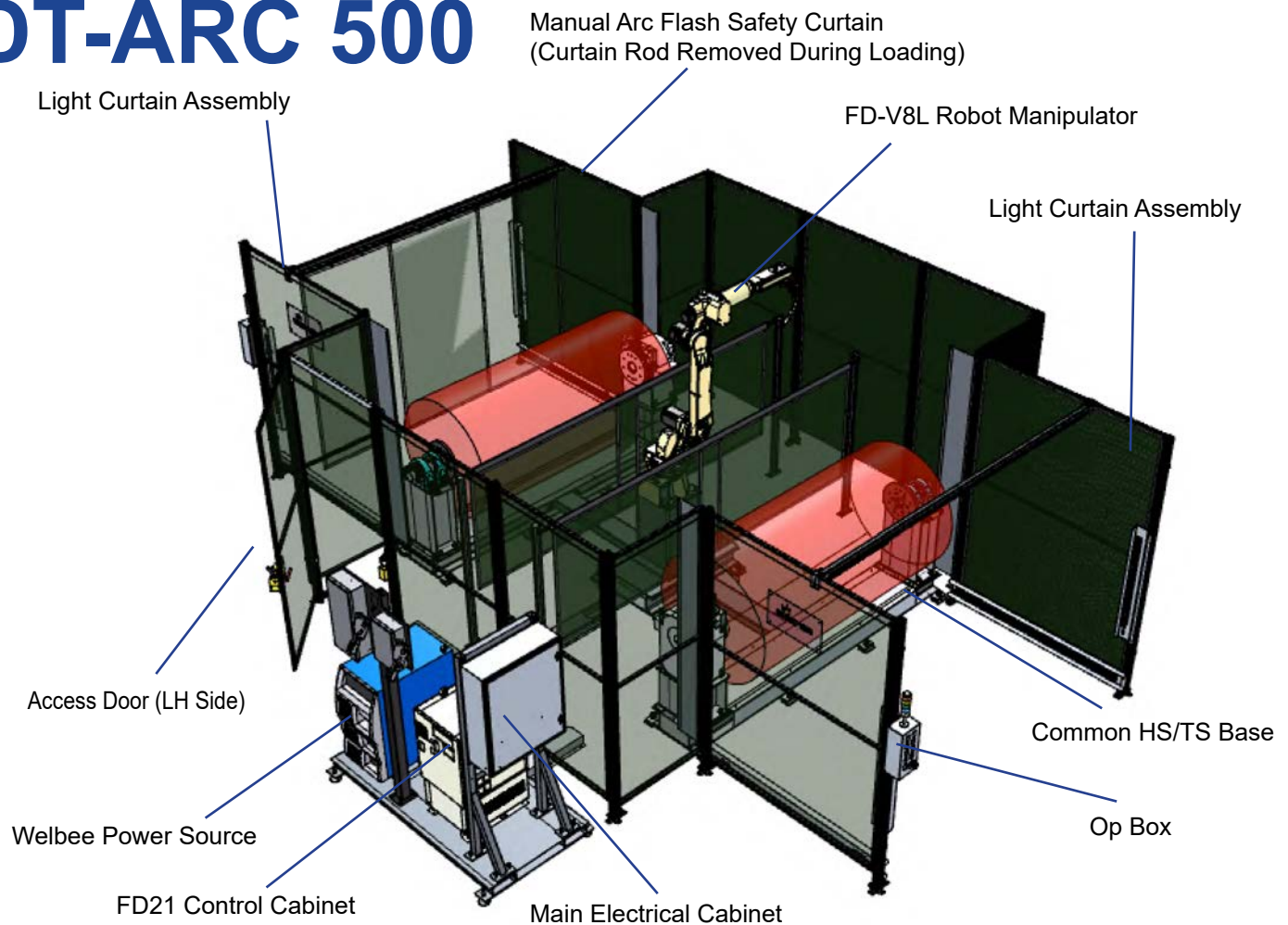
Available I/O Slots:

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

Other Options:

- 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

DT-ARC 500



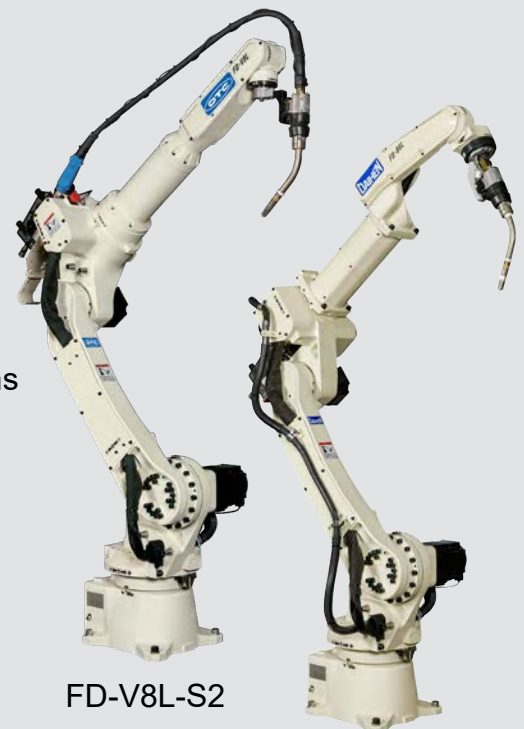
Standard Configuration:

DT-ARC 500

Dual Servo-controlled head and tailstock positioning cell

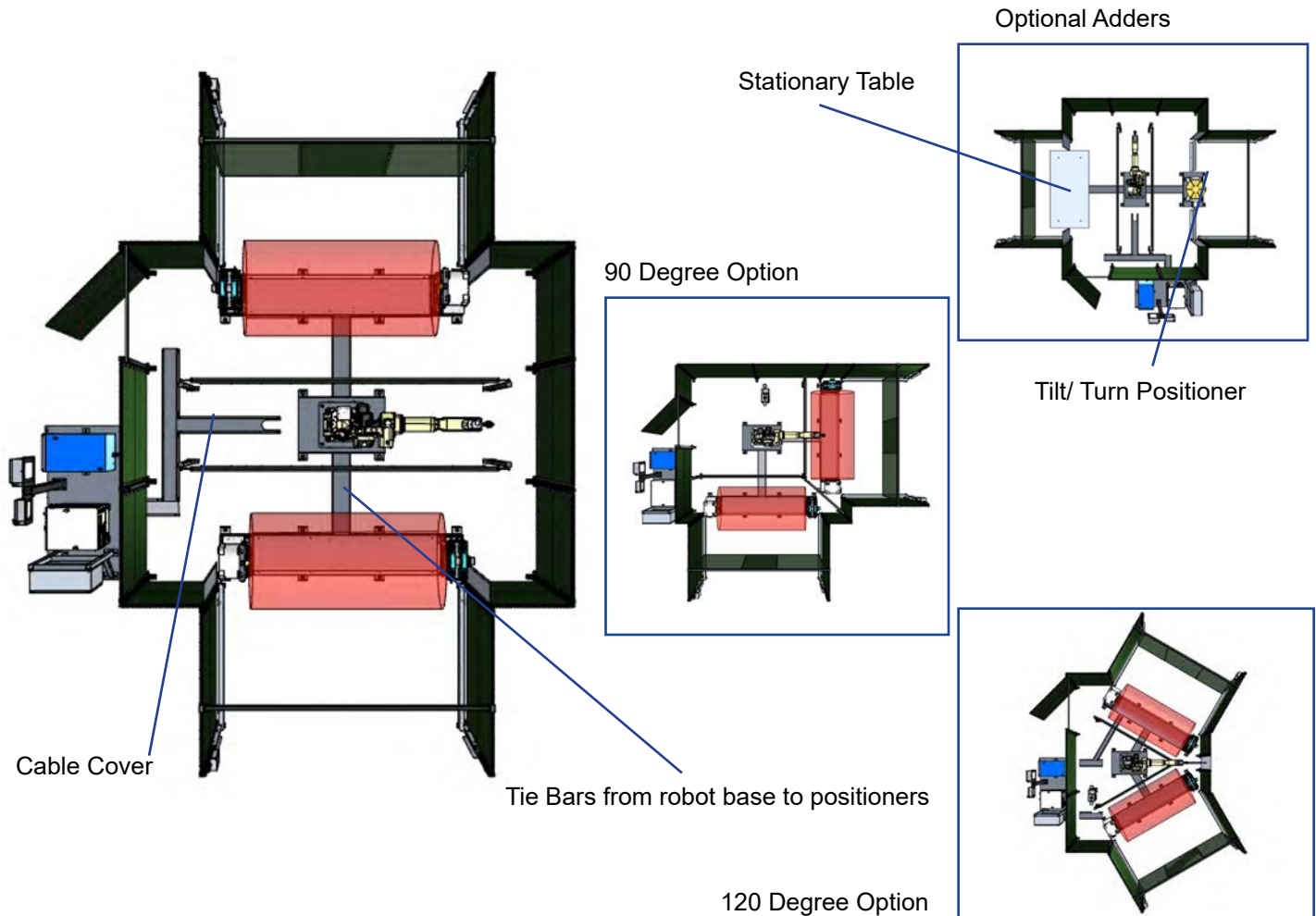
Details:

- Dual A2PB-500 headstock positioners
- Work Capacity – 500kg/side
- 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



FD-V8L-S2

FD-B6L-S2



Specifications

Footprint Dimensions:

Width: 5556mm (218.7")
 Height: 2200mm (86.6")
 Depth: 7055mm (277.8")



Manipulator Types:

- FD-V8L-S2
- FD-B6L-S2

Cell Options:

- Stationary table(s)
- H/S-T/S assembly(s)
- Tilt/Turn positioner(s)

Headstock Options:

- A2PB-250
- A2PB-1000

Tilt/Turn Options:

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

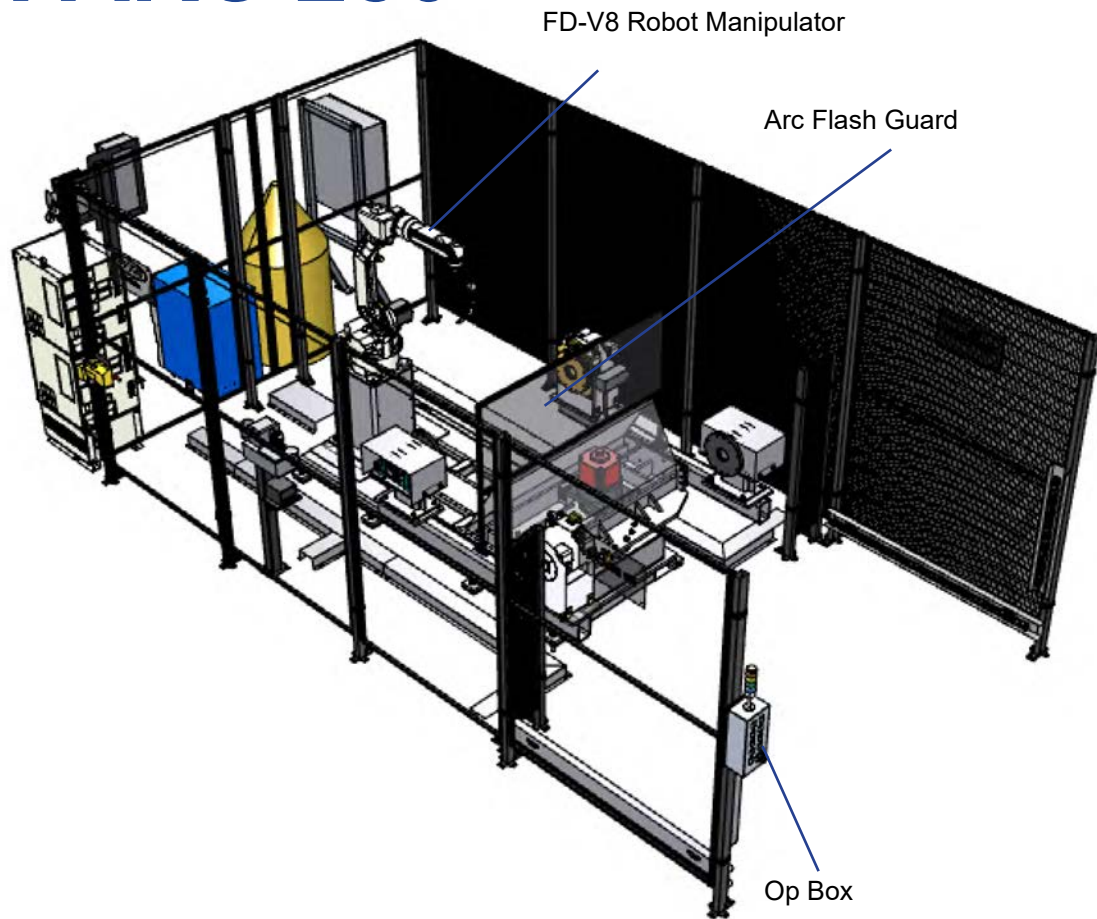
Available I/O Slots:

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

Other Options:

- Roll up arc flash door at individual operator stations –OTC design or RiteHite
- 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
- 90 Degree configuration

ROTA-ARC 250



Standard Configuration:

ROTA-ARC 250

3 Axis Rotary Positioner with (2) Headstock/Tailstock Stations

Details:

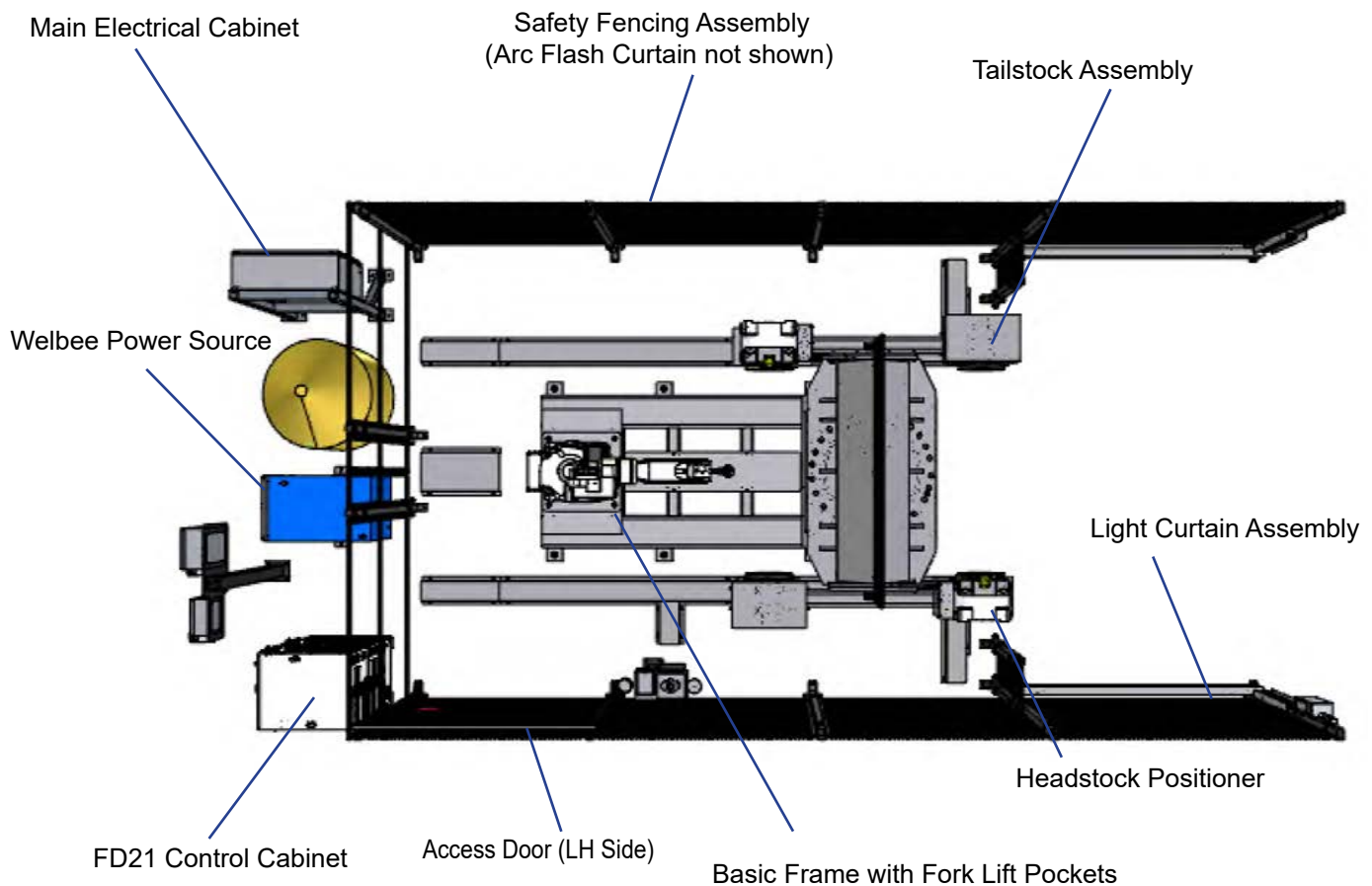
- 3-Axis, Servo-controlled Positioner
- Work Capacity – 250kg / side
- Weight – Approx. 4000kg
- Standard fork lift pockets in base
- Standard HS/TS span: 1500mm
- Index Speed - 5 seconds
- HS/TS swing diameter: 1000mm
- Floor mounted safety fencing w/ arc flash curtains
- Utility trailer



FD-V8



FD-B6



Specifications

Footprint Dimensions:

Width: 3347 mm (131.8")
 Height: 2200mm (86.6")
 Depth: 6732mm (265.0")

Available I/O Slots:

21 Inputs/29 Outputs
 (Additional Power Supply needed for Outputs)

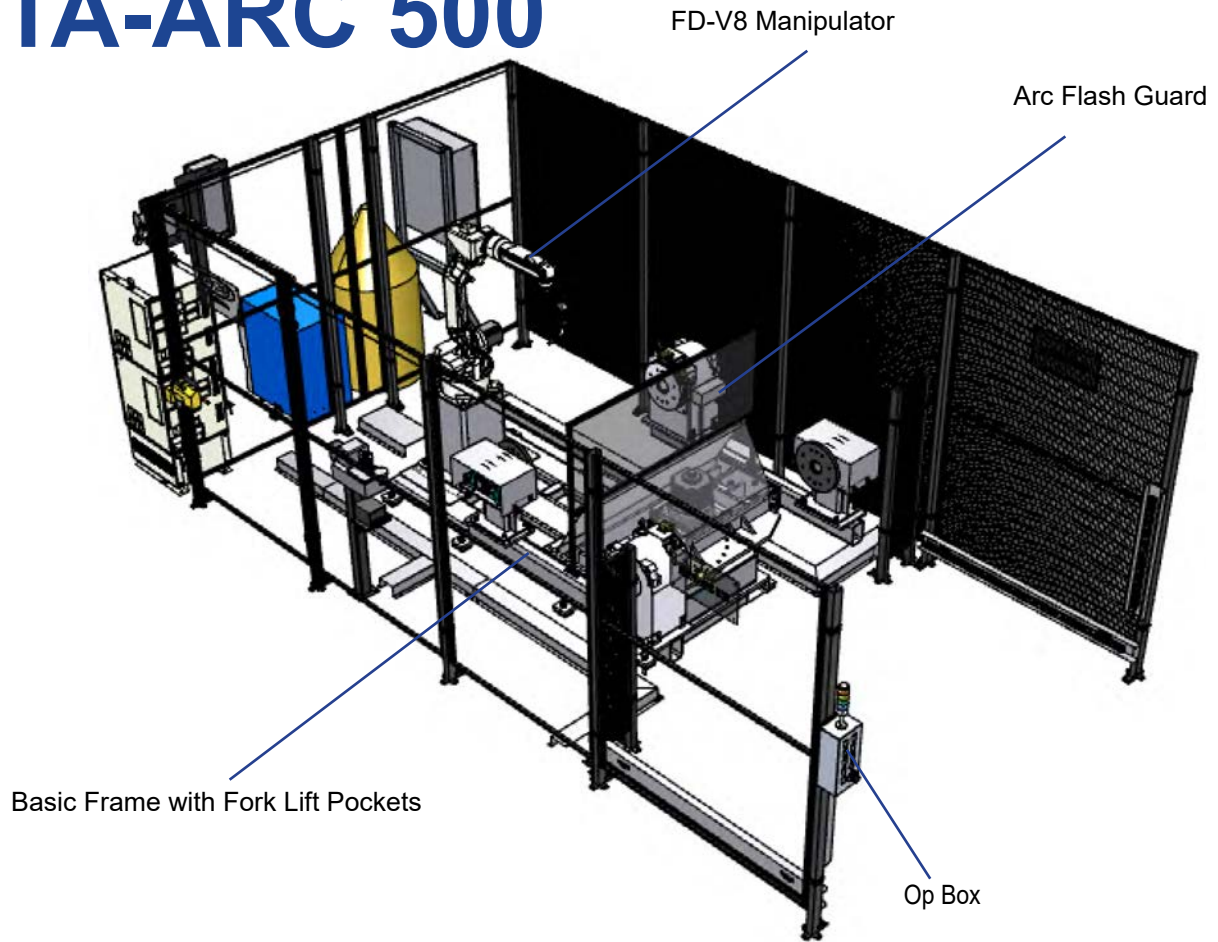
Manipulator Types:

- FD-V8
- FD-V8L-S2
- FD-B6
- FD-B6L-S2

Other Options:

- HS/TS span of 1500mm max.
- Torch cleaning station
- Access door on RH side
- Multiple manipulators
- Extended I/O (recommended)

ROTA-ARC 500



Standard Configuration:

ROTA-ARC 500

3 Axis Rotary Positioner with (2) Headstock/Tailstock Stations

Details:

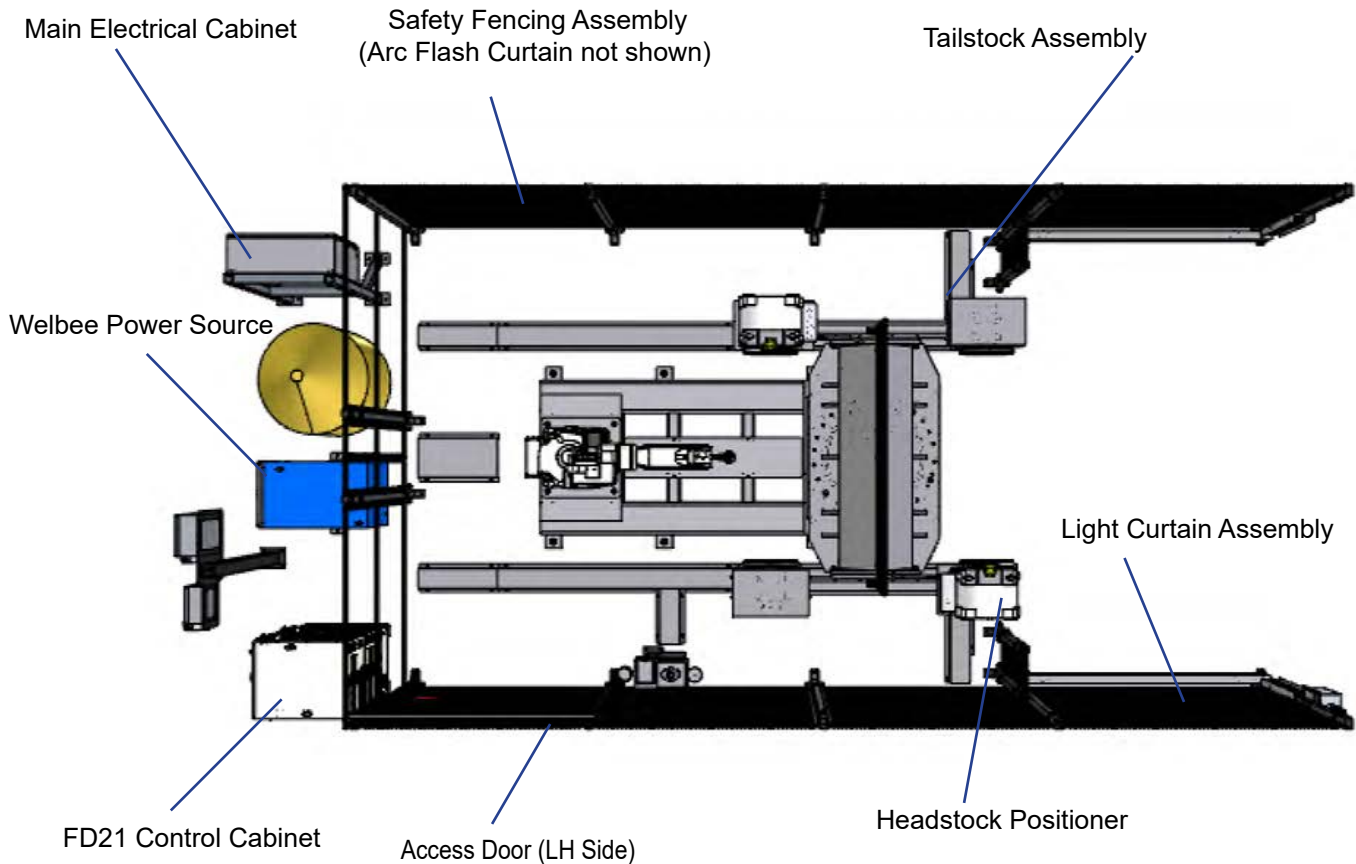
- 3-Axis, Servo-controlled Positioner
- Work Capacity – 500kg / side
- Weight – Approx. 4250kg
- Standard fork lift pockets in base
- Standard HS/TS span: 1500mm
- Index Speed - 5 seconds
- HS/TS swing diameter: 1000mm
- Floor mounted safety fencing w/ arc flash curtains
- Utility trailer



FD-V8



FD-B6



Specifications

Footprint Dimensions:

Width: 3347mm (131.8")
 Height: 2200mm (86.6")
 Depth: 6732mm (265.0")

Available I/O Slots:

21 Inputs / 29 Outputs
 (Additional Power Supply needed for Outputs)

Manipulator Types:

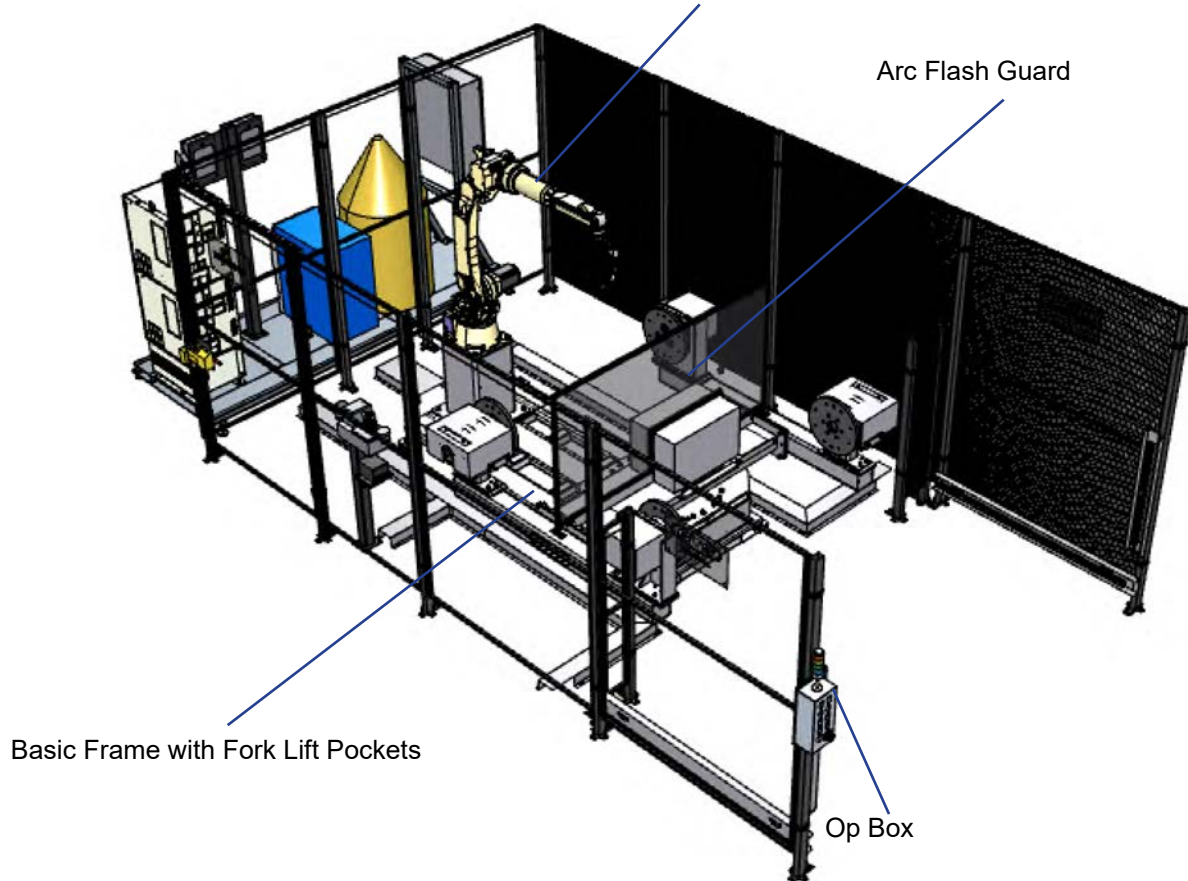
- FD-V8
- FD-V8L-S2
- FD-B6
- FD-B6L-S2

Other Options:

- HS/TS span of 1500mm max.
- Torch cleaning station
- Access door on RH side
- Multiple manipulators
- Extended I/O (recommended)

ROTA-ARC 1000

FD-V8L Robot Manipulator



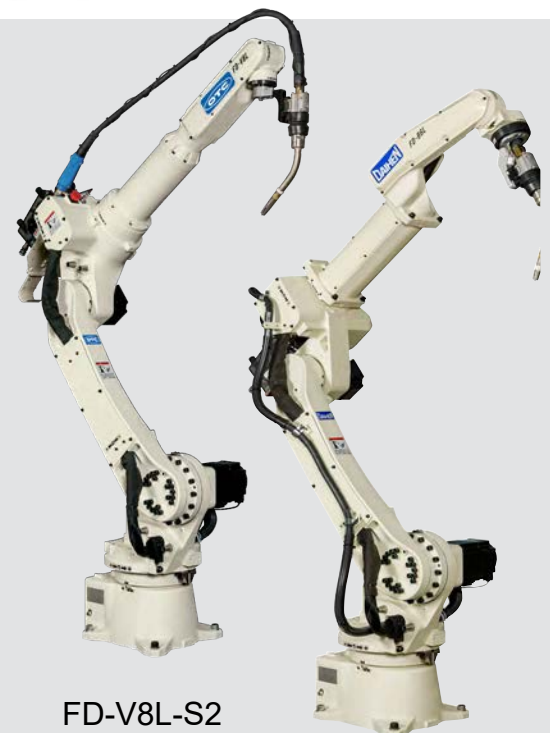
Standard Configuration:

ROTA-ARC 1000

3 Axis Rotary Positioner
with (2) Headstock/Tailstock Stations

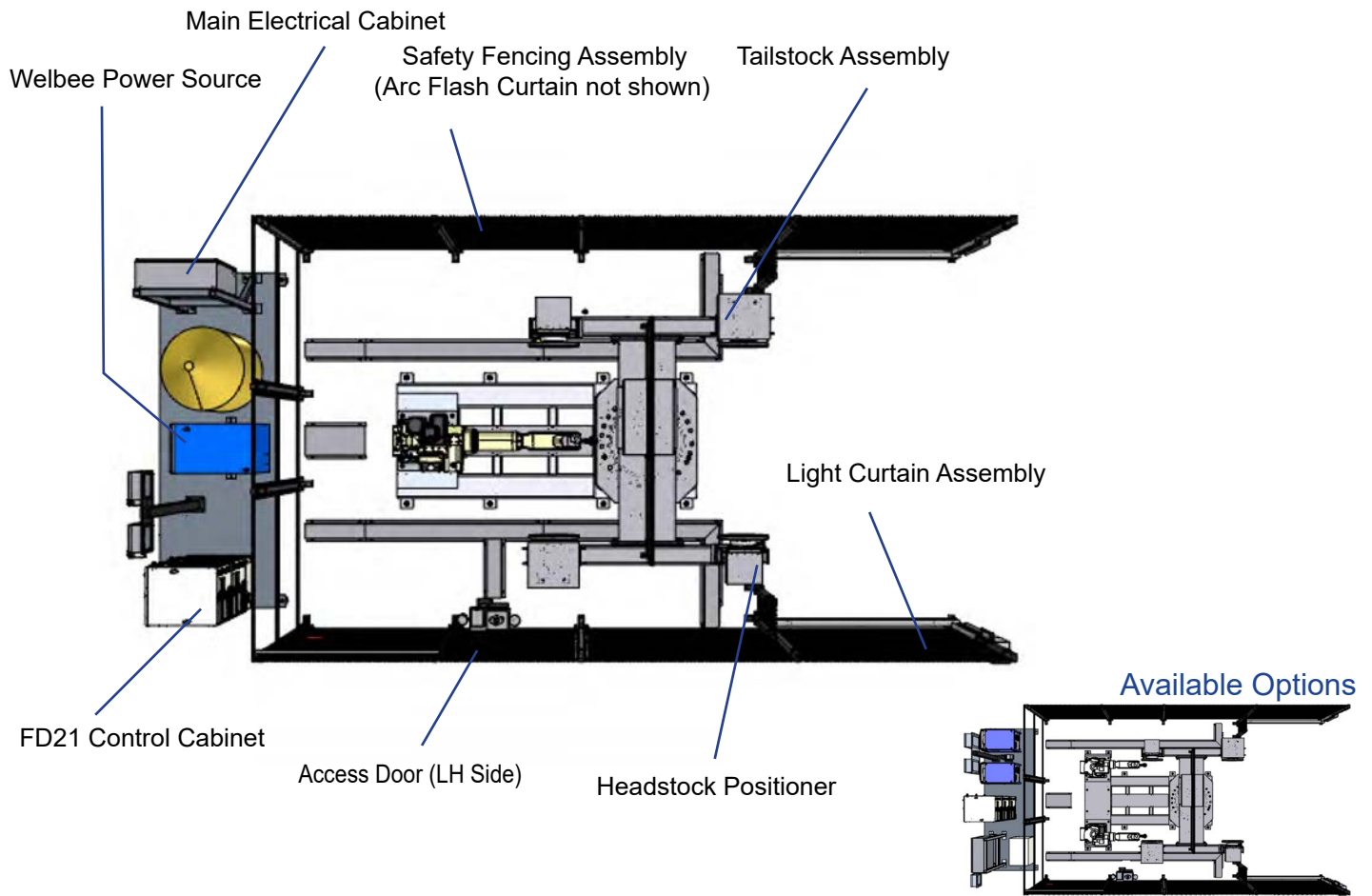
Details:

- Work Capacity – 1000kg/side
- Weight – Approx. 4500kg
- Standard fork lift pockets in base
- Standard HS/TS span: 1500mm
- Index Speed - 5 seconds
- HS/TS swing diameter: 1000mm
- Floor mounted safety fencing w/ arc flash curtains
- Utility trailer



FD-V8L-S2

FD-B6L-S2



Specifications

Footprint Dimensions:

Width: 3398 mm (133.8")
 Height: 2200mm (86.6")
 Depth: 6732mm (265.0")

Available I/O Slots:

21 Inputs/29 Outputs
 (Additional Power Supply needed for Outputs)

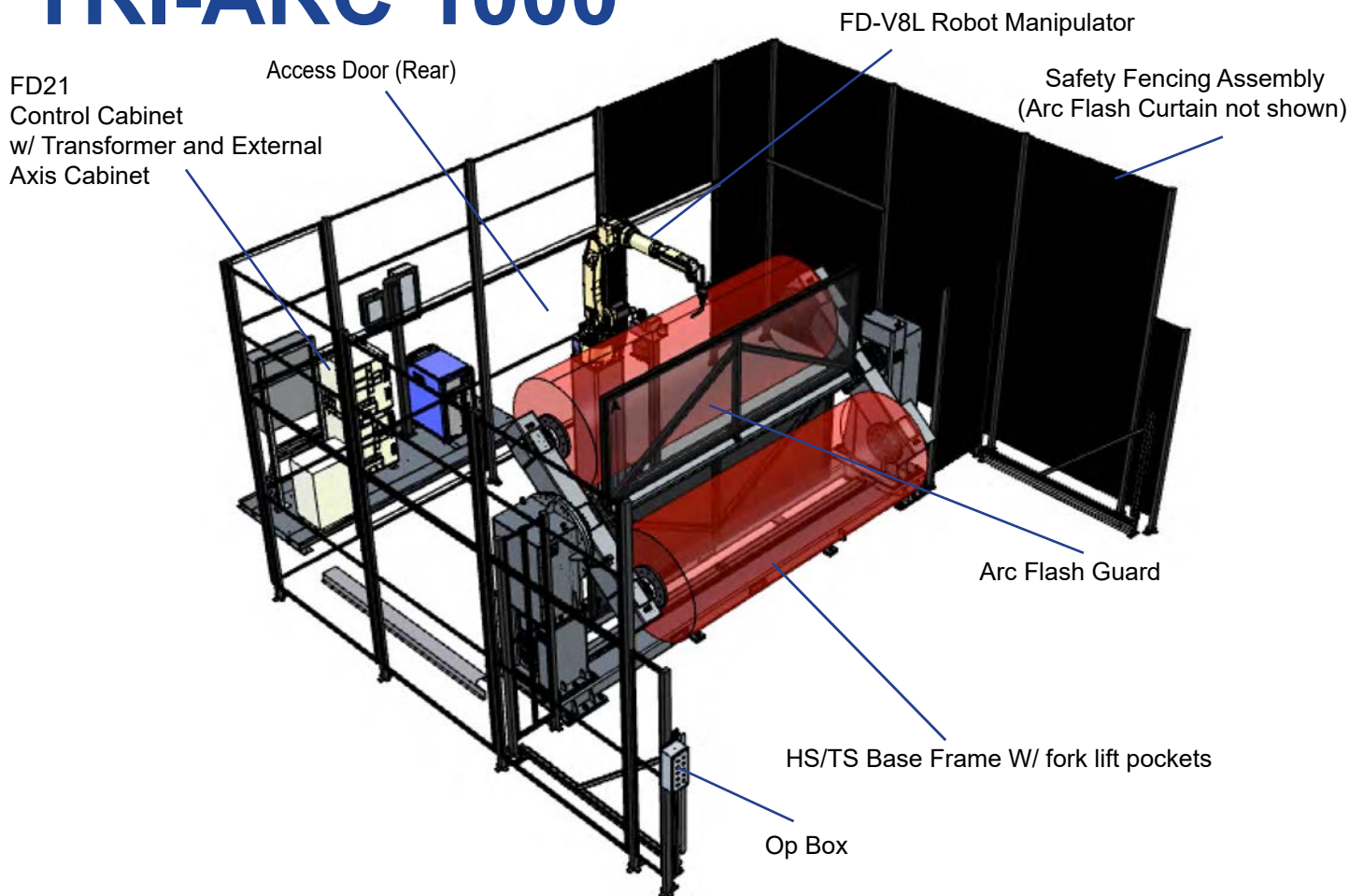
Manipulator Types:

- FD-V8
- FD-V8L-S2
- FD-B6
- FD-B6L-S2

Other Options:

- HS/TS span of 2000mm max.
- Torch cleaning station
- Access door on RH side
- Multiple manipulators
- Extended I/O (recommended)

TRI-ARC 1000



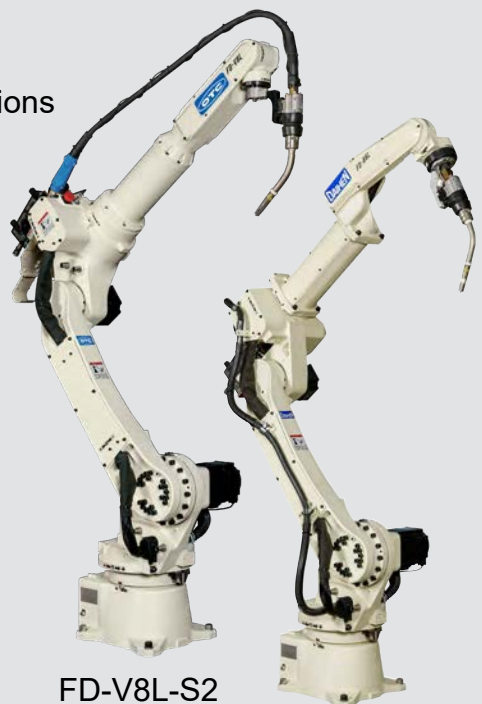
Standard Configuration:

TRI-ARC 1000

3 Axis Ferris Wheel Positioner with (2) Headstock/Tailstock Stations

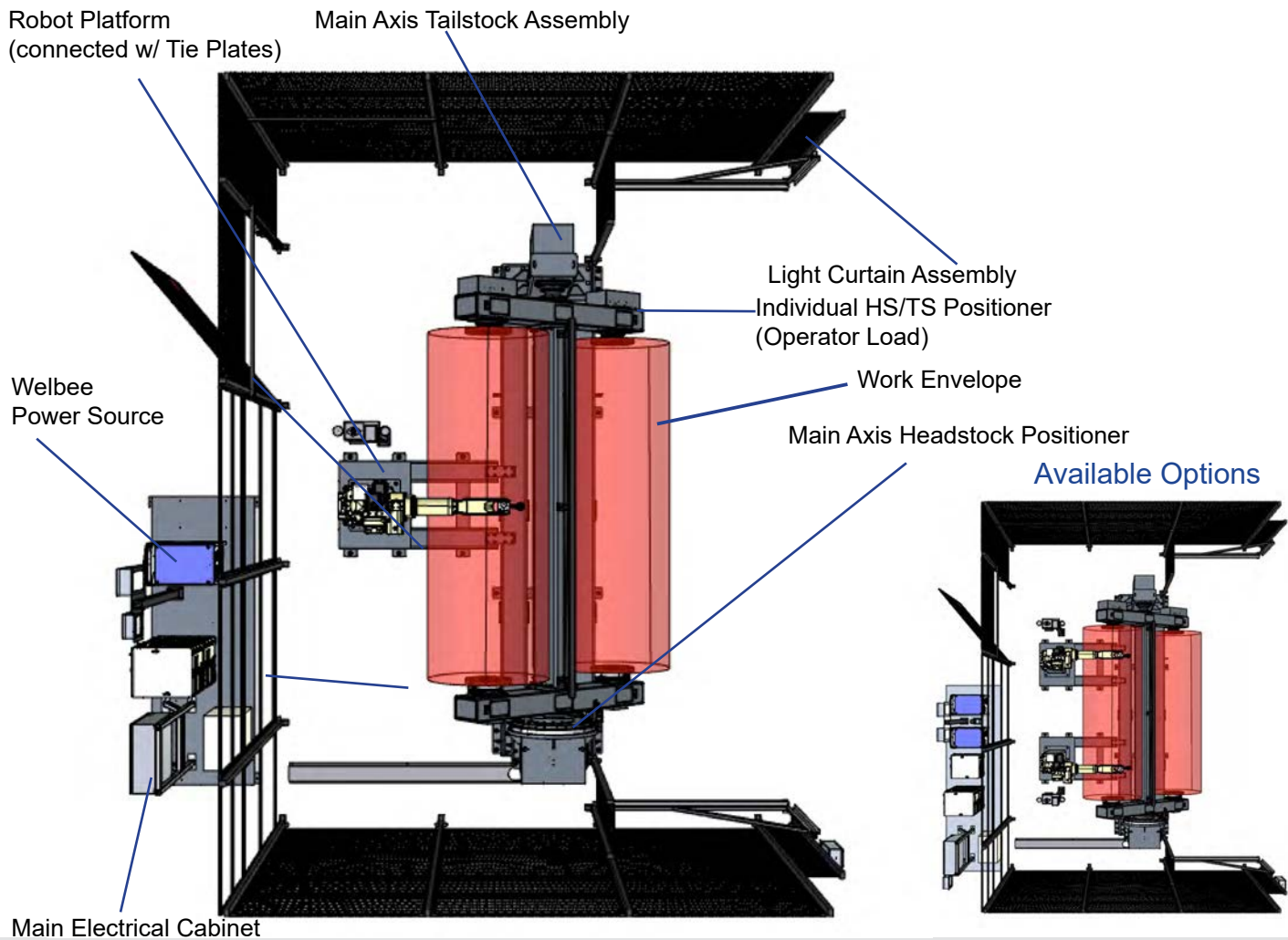
Details:

- Single Load/Unload point
- Work Capacity – 1000kg/side
- Weight – Approx. 5500kg
- Standard fork lift pockets in base
- Standard HS/TS span: 2000mm
- Index Speed - 5 seconds
- HS/TS swing diameter: 1050mm
- Robot platform connected with tie plates
- Floor mounted safety fencing w/ arc flash curtains
- Utility Trailer



FD-V8L-S2

FD-B6L-S2



Specifications

Footprint Dimensions:

Width: 5618mm (221.2")
 Height: 3460mm (136.2")
 Depth: 6437mm (253.4")

Available I/O Slots:

21 inputs / 29 outputs
 (Additional Power Supply needed for Outputs)

Manipulator Types:

- FD-V8L-S2
- FD-B6L-S2

Other Options:

- HS/TS span of 4000mm max.
- Torch cleaning station
- Access door on RH or LH side
- Multiple manipulators w/ platform
- Extended I/O (recommended)

888-OTC-ROBO



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