

VUTEk h3/h5 Printer Specifications

Description: Use these specifications when planning printer installation.

Affected Printers: VUTEk h3 & h5

VUTEk h3/h5 Printer Specifications

Use these specifications when planning printer installation.

Prior to installation, read and understand the EFI Printer Safety Guide, available at <http://inkjet.support.efi.com/doc.php?doc=683>.

Revision History

05/21/2018	Rev. A	Initial release.	DR 4860
06/14/2018	Rev. B	Updated nominal power and average consumption. Updated Printer Dimensions and Weights. Updated site drawings.	DR 5068
07/18/2018	Rev. C	Updated nominal power.	DR 5147
09/18/2018	Rev. D	Added crated dimensions.	DR 5238
09/26/2018	Rev. E	Added palletized dimensions.	DR 5271
10/03/2018	Rev. F	Updated text re: internet connections.	DR 5265
10/22/2018	Rev. G	Updated compressed air requirement.	email
11/02/2018	Rev. H	Updated KWH.	DR 5330
11/14/2018	Rev. I	Updated Exhaust Collar Volume to 550 and fixed a couple CFM acronyms.	DR 5354
12/19/2018	Rev. J	Updated operation amperage.	email
01/03/2019	Rev. K	Added flooring requirements as section 2.3 and added Revision History table.	DR 5446
03/07/2019	Rev. L	Section 2.4 Electrical. Table 4. Changed absolute from 360-509 to 360-504 in the leg to leg.	DR 5578
10/30/2019	Rev. M	Removed Operation Amperage in section 2.4.	DR 6012
12/05/2019	Rev. N	Absolute Min VAC L-L updated to 380, rather than 360. Min/Max for VAC L-G updated to 219-288	DR 6075

1.0 Printer Shipping Specifications

Definitions

EFI printers are shipped in one of two packaging configurations: **crated** or **palletized**.

- **Crated:** EFI printers that are shipped outside US borders, and peripherals, are shipped in an enclosure (crate) to protect against damage.
- **Palletized:** EFI printers that are shipped within the continental US and Canada are shipped on a pallet and wrapped in plastic wrap to keep contaminants out. Printers are shipped on dedicated trailers: nothing else is loaded onto the truck other than the printer and any separate printer parts included on the printer order.
- **Uncrated:** The printer has been removed from the shipping crate and all packaging.

Note: Use the uncrated dimensions to determine if the printer will fit through your doorway.

Table 1: Printer Dimensions and Weights

	Height	Depth (front to back)	Width (left to right)	Weight
Crated	98" [249 cm]	74" [188 cm]	265" [673 cm]	10,705 lbs. [4856 kgs.]
Palletized	86" [218 cm]	74" [188 cm]	265" [673 cm]	10,000 lbs. [4536 kgs.]
Uncrated	Printer Top: 76" [193 cm]	Doors Closed: 61" [155 cm]	Doors Closed: 254" [645 cm]	7,495 lbs. [3400 kgs.]
	Stack Lights: 87" [221 cm]	Doors Open: 96" [244 cm]	Doors Open: 350" [889 cm]	

2.0 Installation Requirements

2.1 Clearances

The drawings at the end of this document show the printer dimensions, as well as working clearances needed to accommodate printer operation.

2.2 Print Environment

EFI Inkjet Solutions does not supply a ventilation system for your digital printing system. However, EFI Inkjet Solutions does require a ventilation system be installed for extracting ozone, ink particles, solvent fumes, and heat from the printing area.

Customers must maintain the following environmental conditions for the printer and the area in which it is installed.

Table 2: Environment Specifications

Specification	Imp.	Metric
Volume at <u>each</u> exhaust collar (two per printer)	550 CFM	14.2 m ³ /min.
Maximum under hood temperature	104° F	40° C
Ambient room temperature	68° F – 86° F	20° C – 30° C
Relative humidity (non-condensing)	30% – 80%	
Exhaust collar <u>outside</u> diameter	10.25 inches	26.0 cm
Exhaust collar <u>inside</u> diameter	10 inches	25.4 cm

2.3 Flooring Material

The flooring in the production area must be concrete, dust-free, and prevent the hazardous accumulation of static electricity. Anti-static carpeting or tiles may be placed in the production area on top of the concrete floor prior to the printer's installation. The flooring must be designed to safely support the weight of the system.

2.4 Electrical

A licensed electrician must ensure that your printer's dedicated power source meets the specification requirements.

Table 4: Electrical Specifications

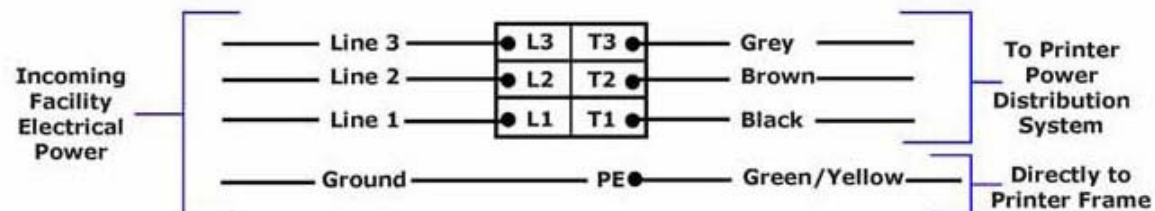
Parameter	Value
Power, Nominal	400-480 @ 30A; 3 phase (N America/Europe)
Power, Absolute Min/Max	VAC L-L 380-504 VAC L-G 219-288
Average Power Consumption	3.8 kWh
Frequency	50 or 60 Hz
Wiring	4 Wire (3 phase + Earth Ground)

Important: Measure the line-to-line and line-to-ground voltages. The line-to-line voltage difference must be less than 5% and the difference between each line and chassis ground must be less than 5%.

2.4.1 Three Phase Configurations

Defines the three phase electrical configurations.

Figure 1-2: Three-phase electrical configuration



Printer 3-Phase Distribution Block

2.5 Compressed Air

Requires customer-supplied ½" NPTF from facility air compressor.

Table 5: Compressed Air Specifications

	Imp.	Metric
Minimum	110 psi @ 16 CFM	7.73 kg/cm ² @ 0.4531 m ³ /min.
Maximum	145 psi	10.2 kg/cm ²

Customers must adhere to the Compressed Air Quality Specifications, located online at <https://inkjet.support.efi.com/doc.php?doc=975>, to ensure print quality and to prevent equipment damage.

2.6 Internet Connection

The customer is required to provide direct internet-ready access to the VUTEk h3/h5 printers.

An Internet network connection is required for remote diagnostics and troubleshooting purposes.

The customer is responsible for all network connections.

Lack of direct internet-ready access may directly impact EFI's ability to acutely diagnose issues and order appropriate replacement parts in a timely fashion.

Printer network configuration allows for Auto DHCP or static IP address. Please do not use 192.168.14.X subnet.

2.7 AC Power Cord

A power cord must be supplied by the customer. Size and configuration is determined by local code requirements.

3.0 Media Specifications

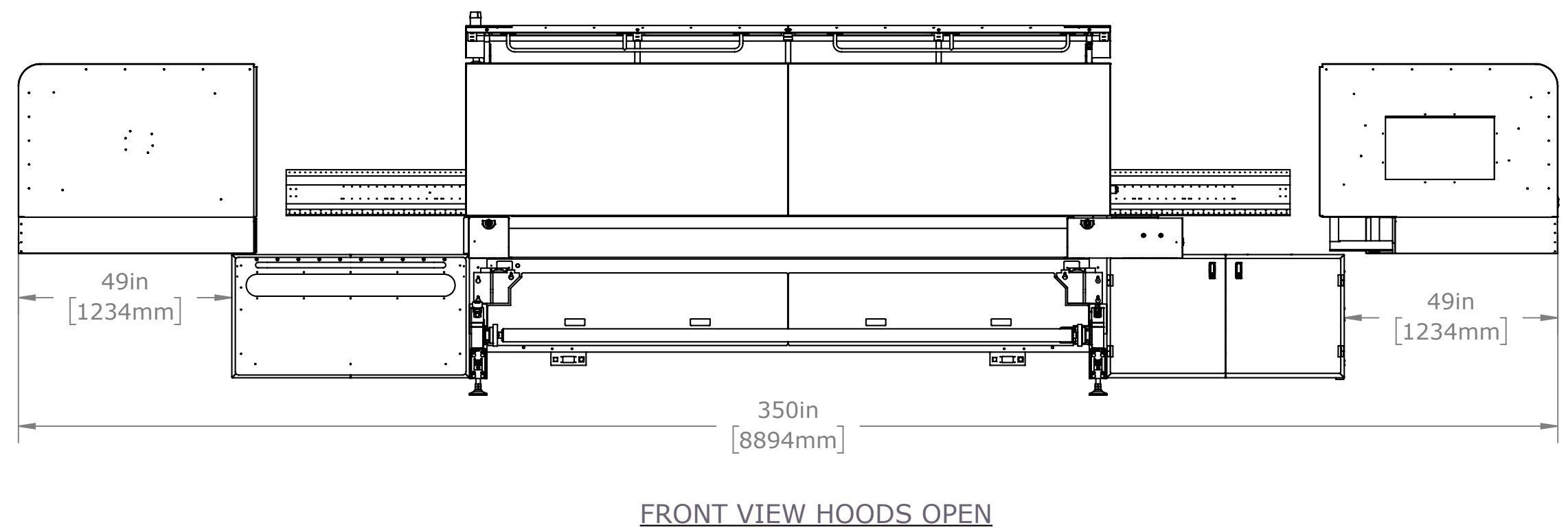
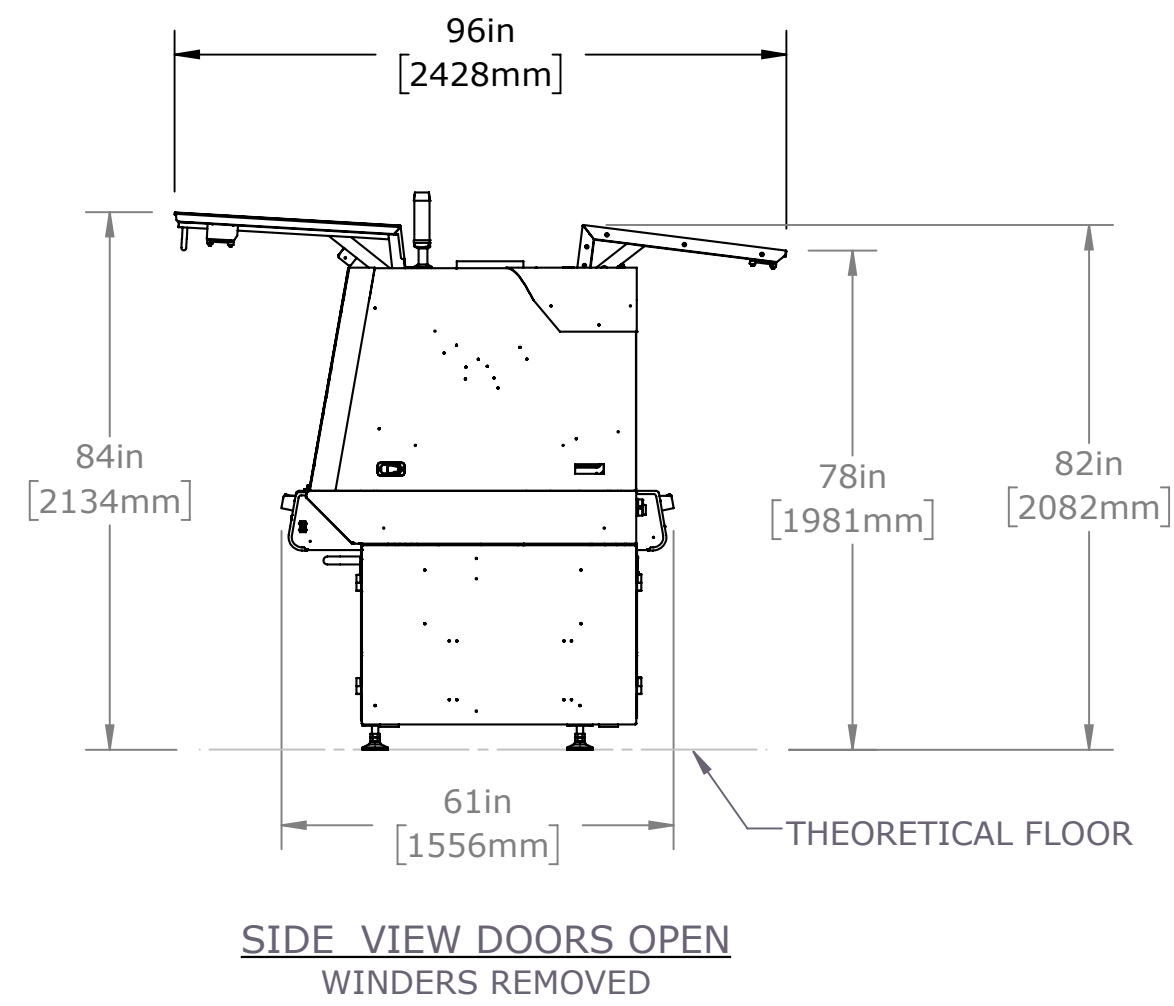
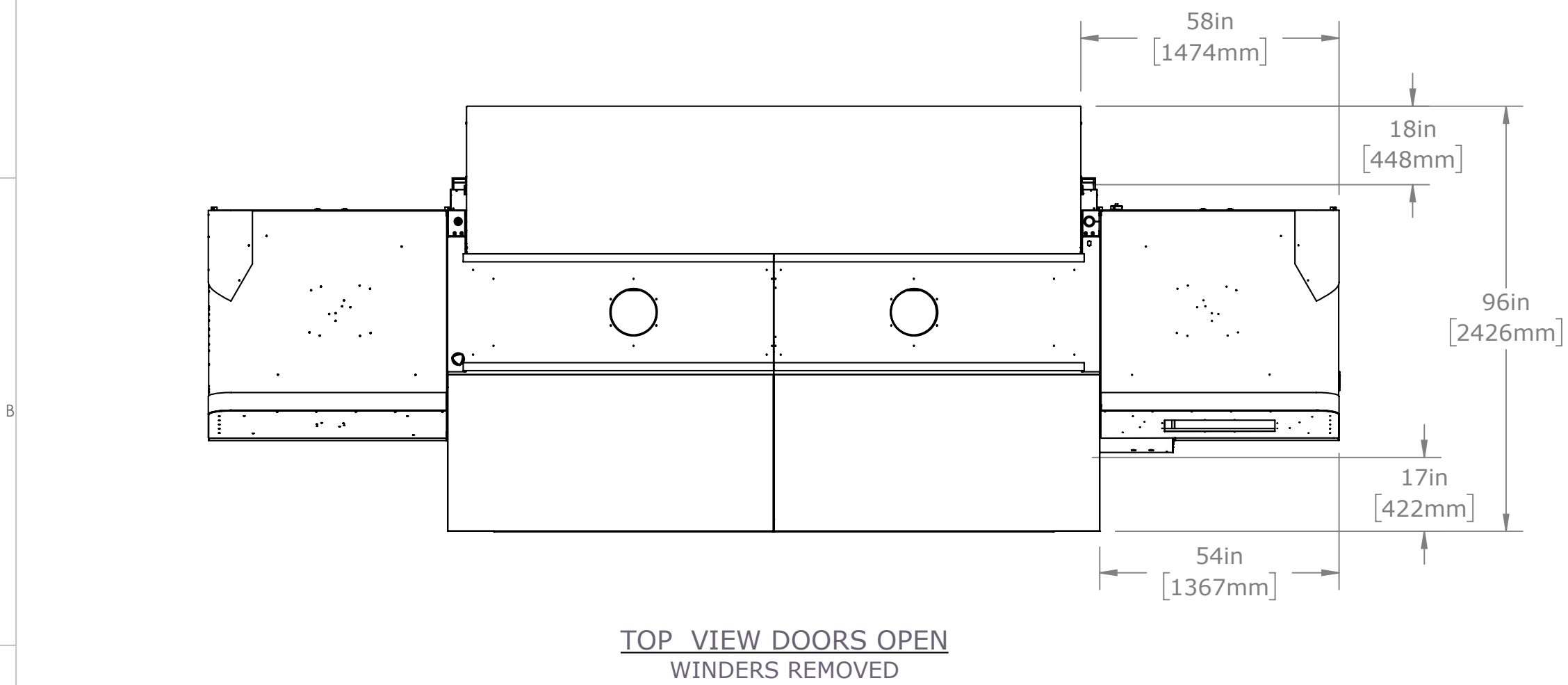
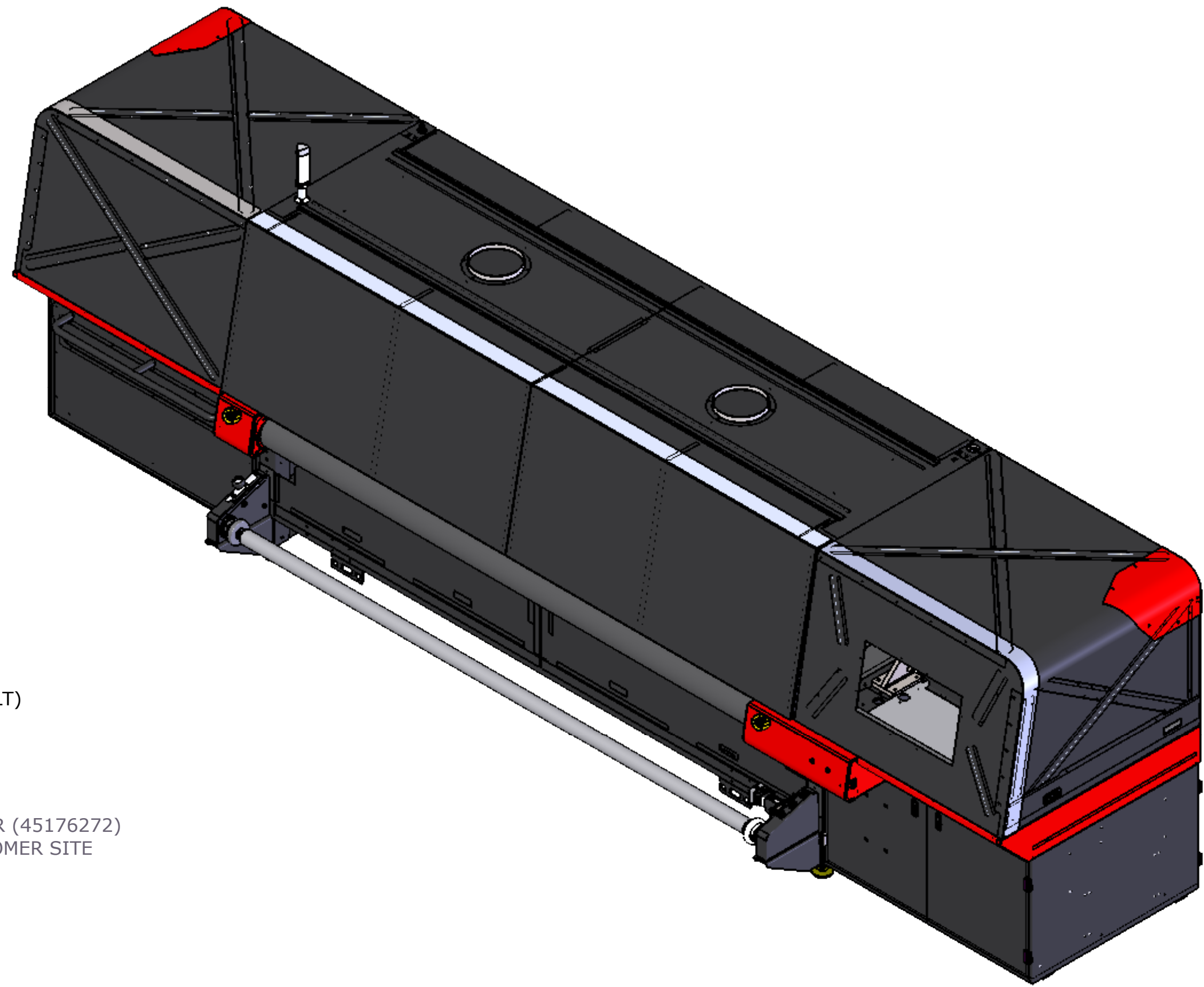
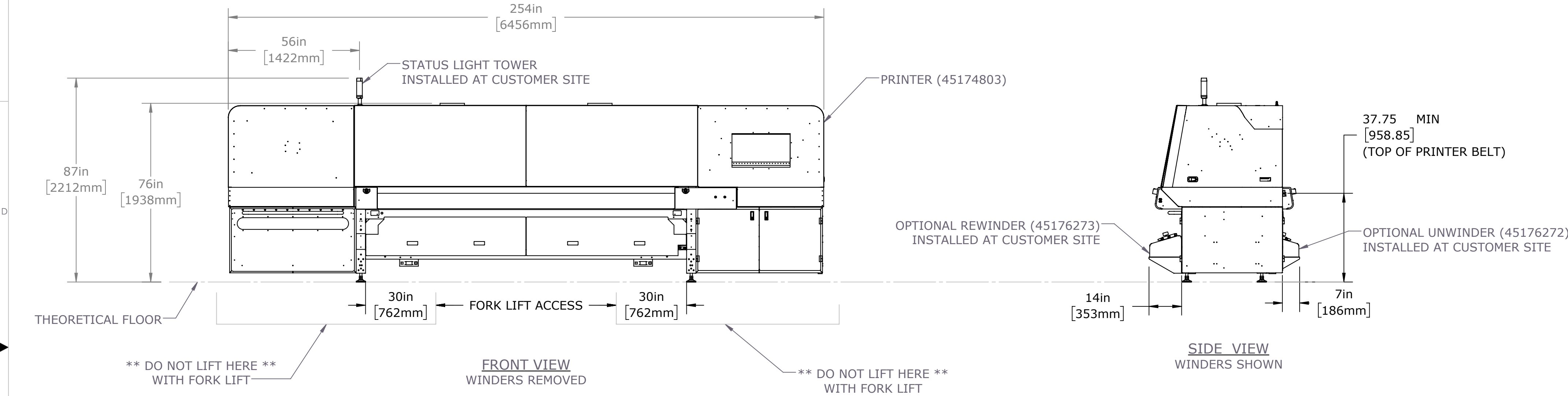
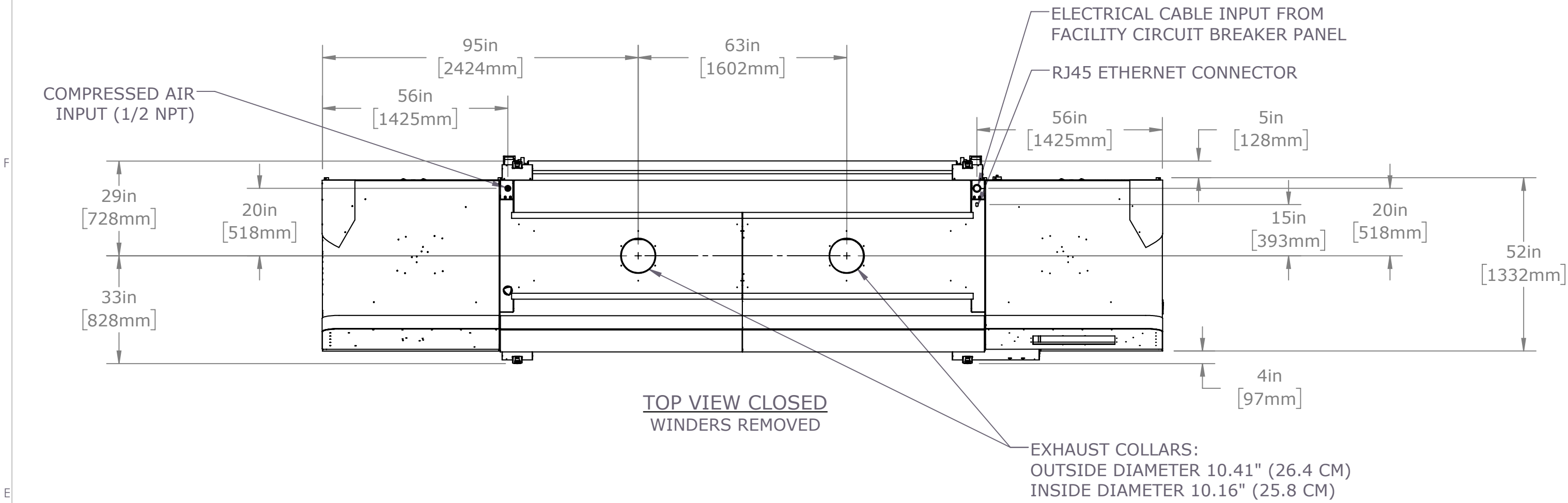
Table 6: Media Specifications – h3/h5 Printer(s)

	Standard Winder P/N 45183358 Imp. (Metric)	Elevated P/N 45183359 Imp. (Metric)	Dual Motor, Elevated P/N 45183360 Imp. (Metric)
Min. Media Width	12" (30 cm)		
Max. Media Width	126" (320 cm)		
Max. Media Width, with Material Edge Guide (MEG) skis installed	123.95" (314.8 cm)		
Max. Roll Weight – Air Core @ 126" (320 cm)	400 lbs. (180 kg)		
Max. Roll Weight – Air Core @ 54" (137.2)	170 lbs. (77.1 kg)		
Media Roll Core, inside diameter	3" (7.6 cm)		
Roll maximum diameter	12" (30 cm)		
Max. Sheet Thickness	2" (5 cm)		
Max. Sheet Weight @ 126" (320 cm)	200 lbs. (90.7 kg)		

4.0 Site Plan and Dimensions

The drawings shown on the following pages of this document illustrate the printer dimensions with a standard table configuration, and required clearances around the printer area. To ensure that you have the latest version of this drawing, contact your field service engineer before site planning.

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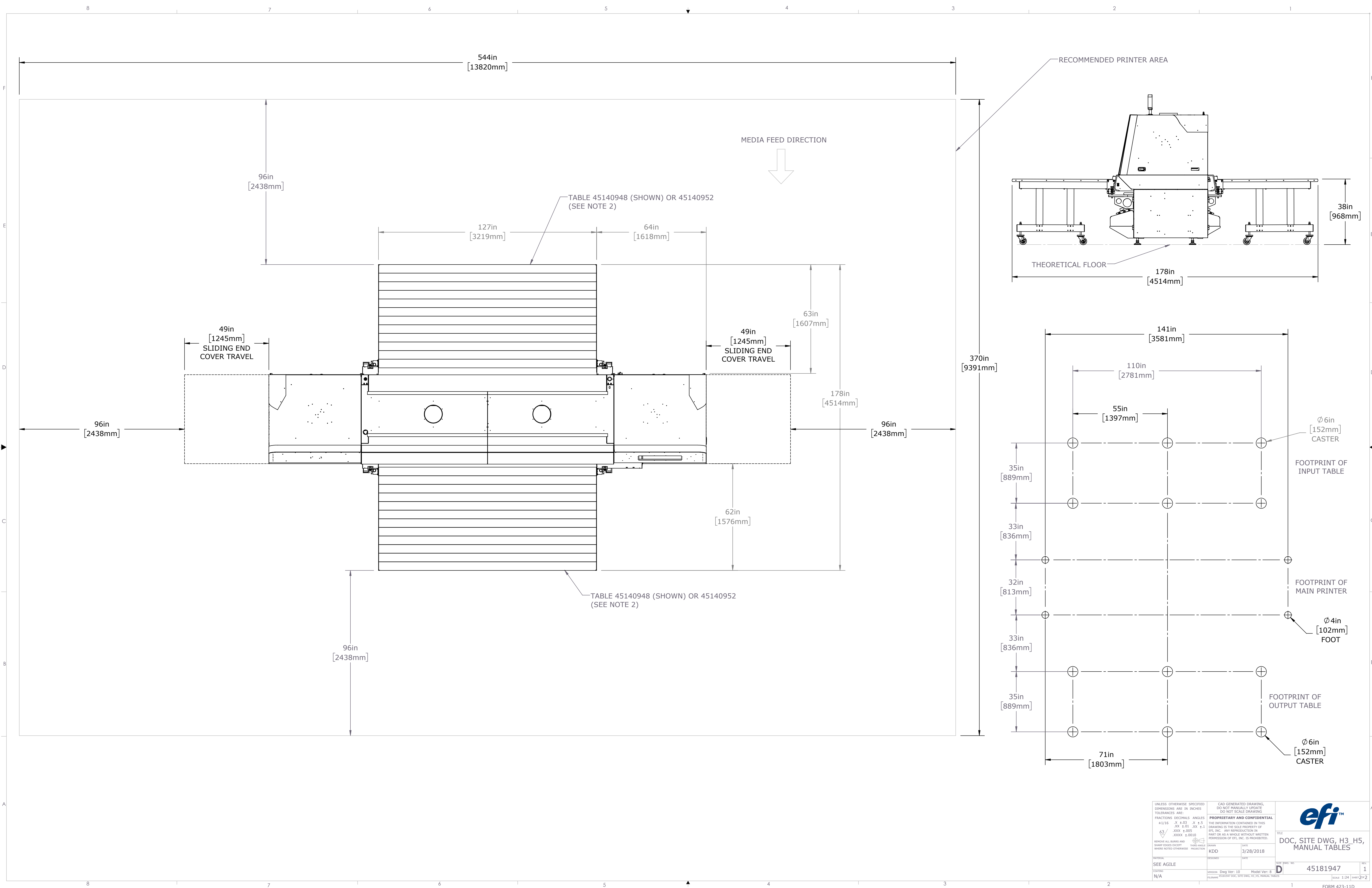


- NOTES:
- DIMENSIONS ARE NOMINAL EXCEPT AS SHOWN (DUAL DIMENSIONS ARE IN MILLIMETERS)
 - MANUAL TABLES REQUIRE 45179897 (KIT, BRACKET, MTG, MANUAL TABLE DOCK, MCKINLEY)

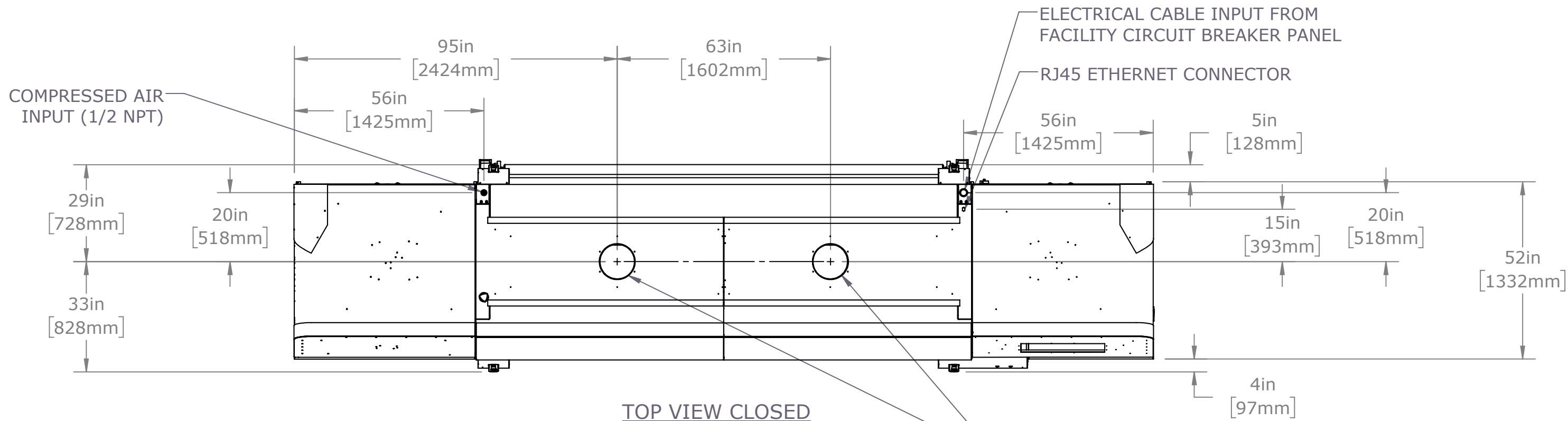
PRINTER WITH OPTIONAL
UNWINDER AND REWINDER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES #1/16 .X .03 .X .5 .XX .01 .XX .1 XXX .005 XXXX .0010 REMOVE ALL BUBBLES AND SHARP EDGES EXCEPT WHERE NOTED OTHERWISE			CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING. PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF EFI, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF EFI, INC. IS PROHIBITED. DRAWN: KDD DATE: 3/28/2018 CHECKED: DATE: MATERIAL: SEE AGILE COATING: N/A VERSION: Dwg Ver: 10 Model Ver: 8 FILENAME: 45181947.DWG; H3_H5_MANUAL TABLES			TITLE DOC, SITE DWG, H3_H5, MANUAL TABLES SIZE: Dwg: 10 45181947 SCALE: 1:30 SHEET 1 OF 2		REV 1
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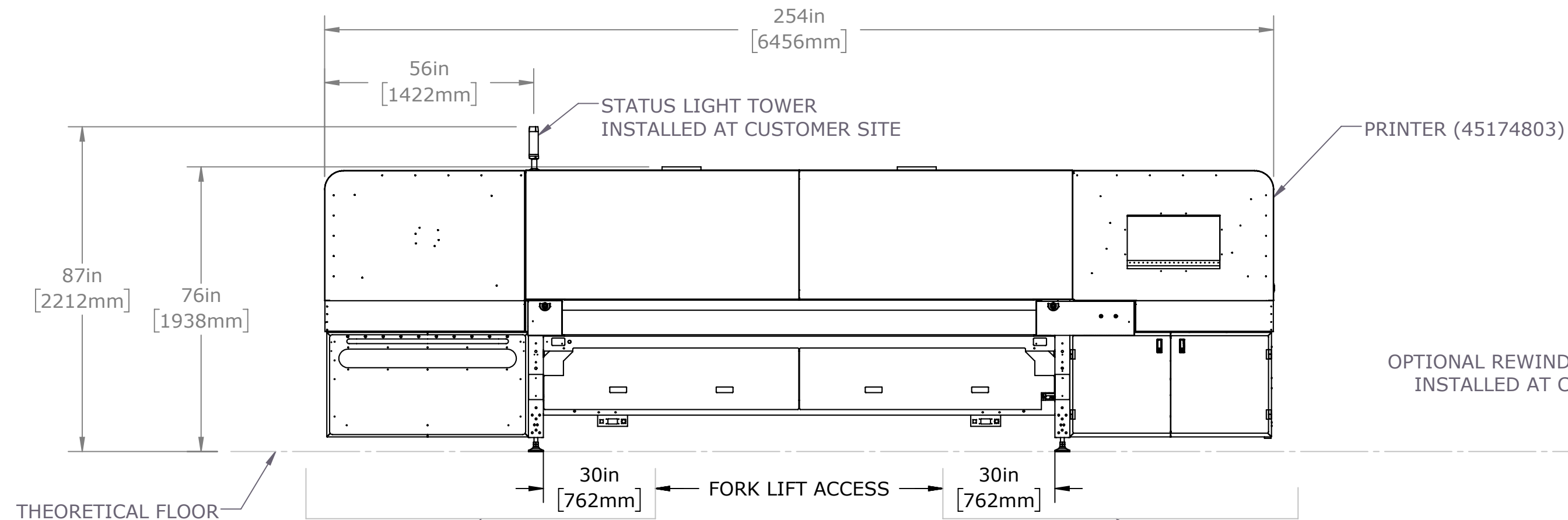


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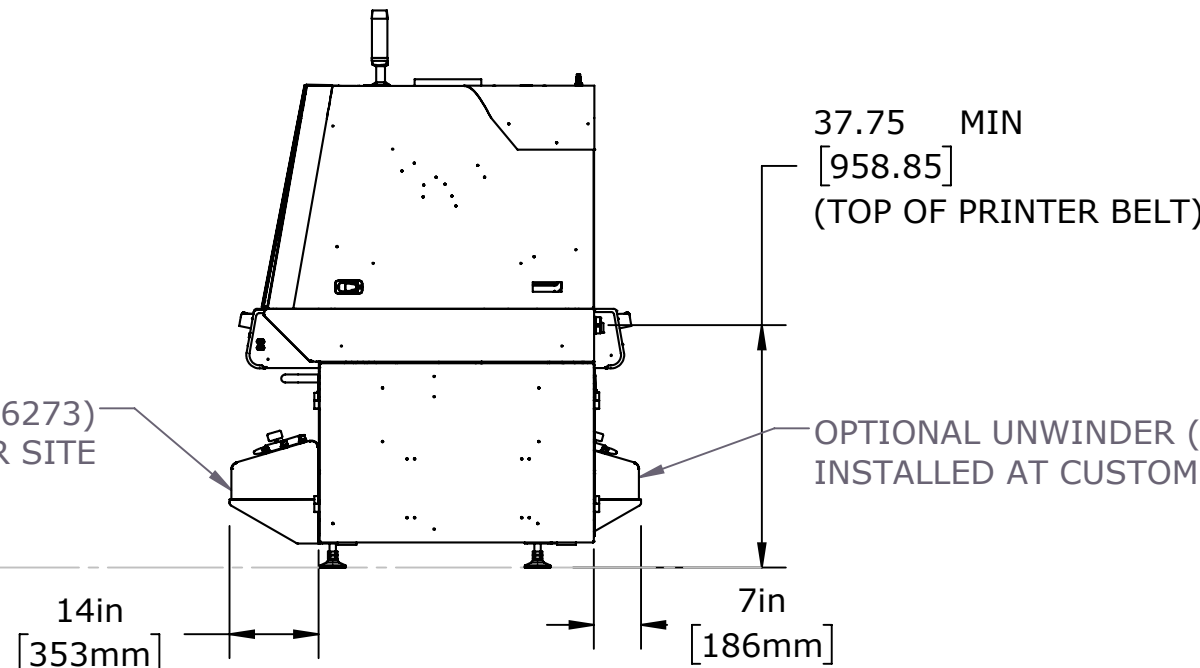
TOP VIEW CLOSED
WINDERS REMOVED

EXHAUST COLLARS:
OUTSIDE DIAMETER 10.41" (26.4 CM)
INSIDE DIAMETER 10.16" (25.8 CM)

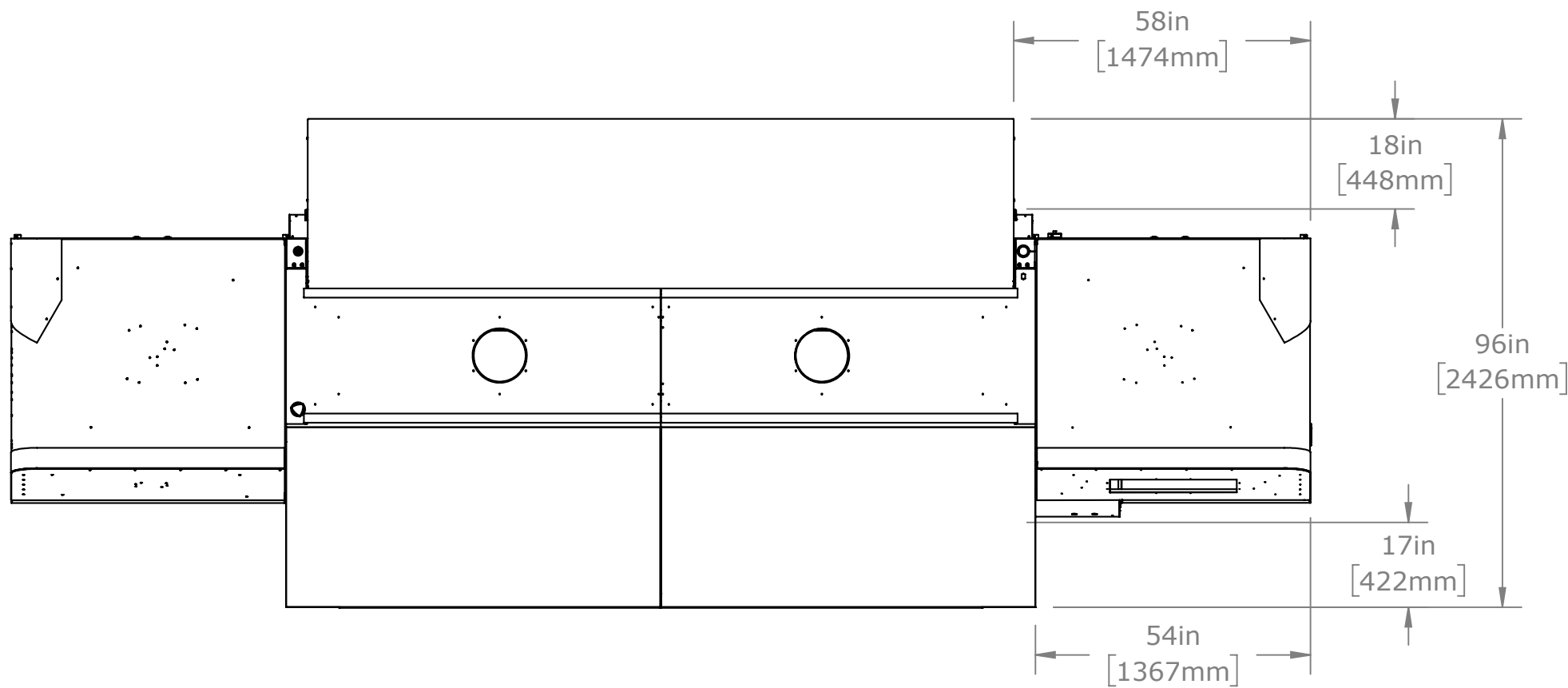
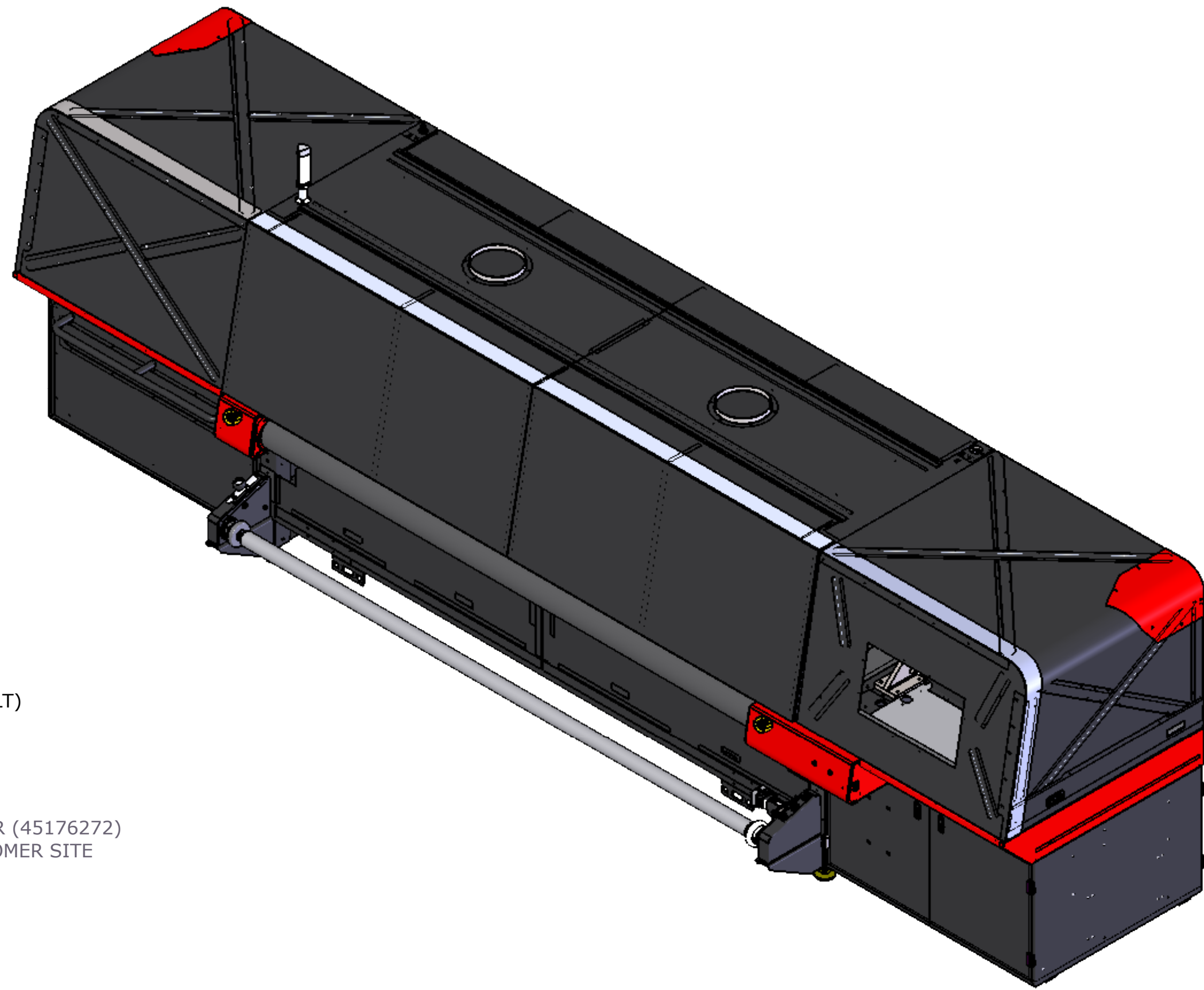


FRONT VIEW
WINDERS REMOVED

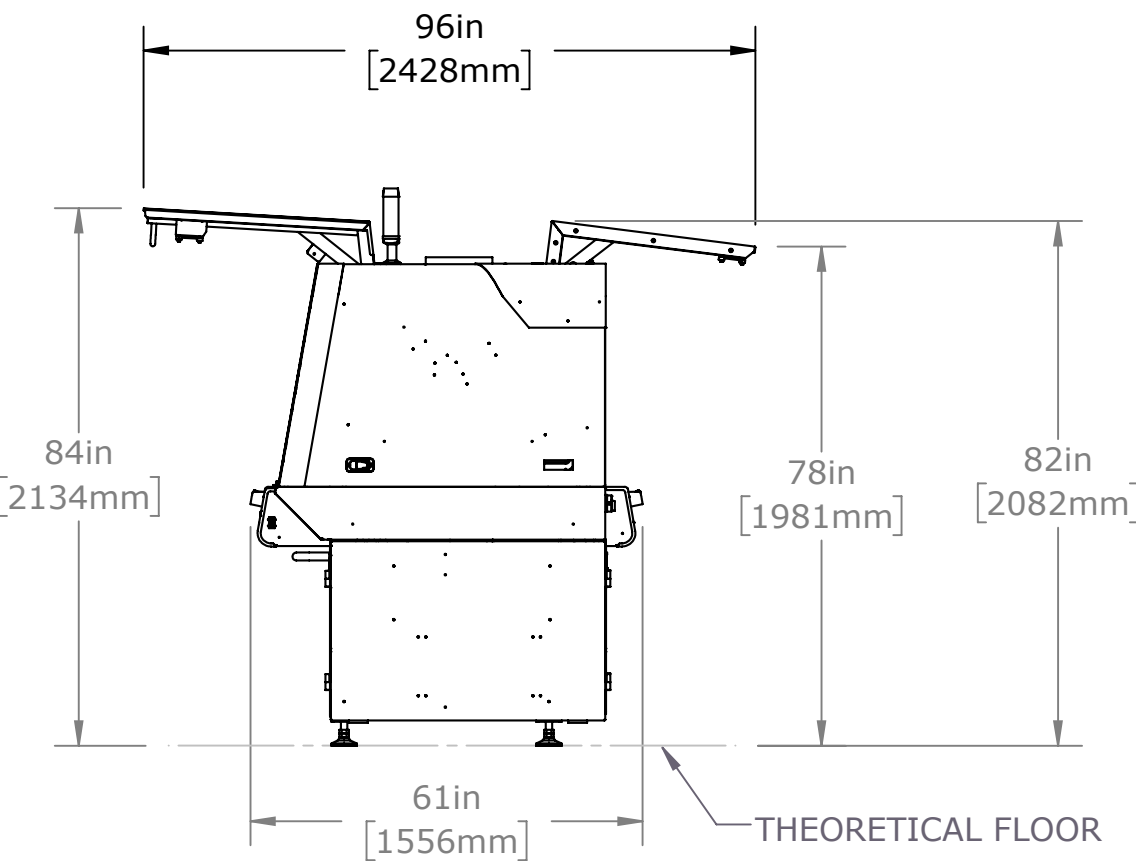
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WITH FORK LIFT



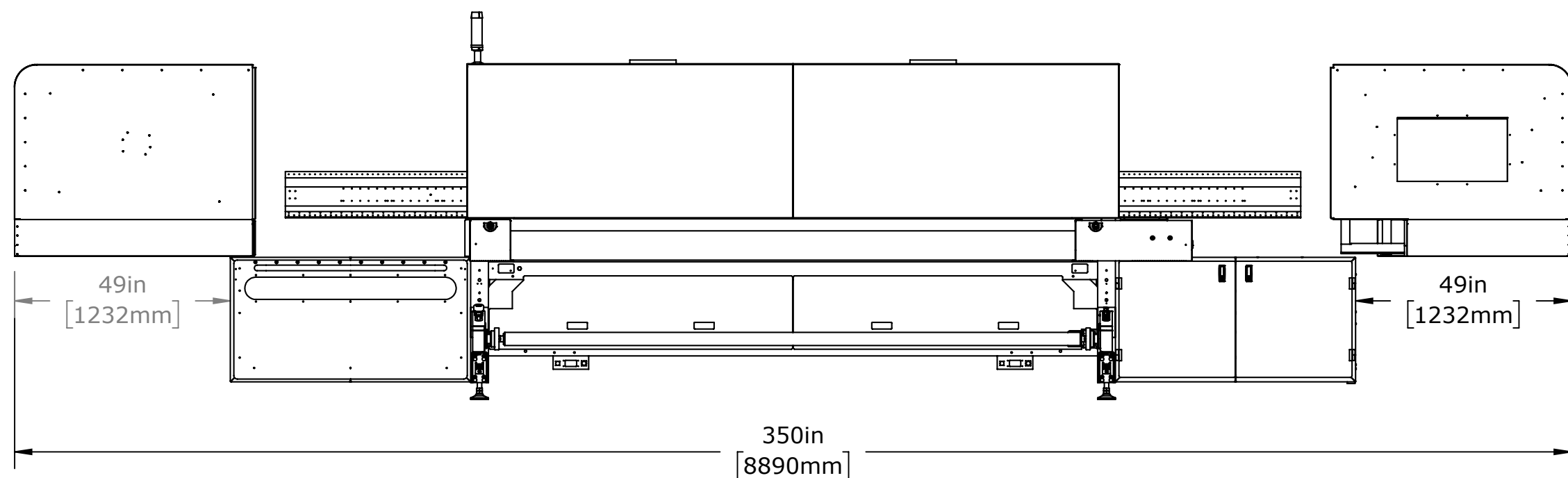
SIDE VIEW
WINDERS SHOWN



TOP VIEW DOORS OPEN
WINDERS REMOVED



SIDE VIEW DOORS OPEN
WINDERS REMOVED



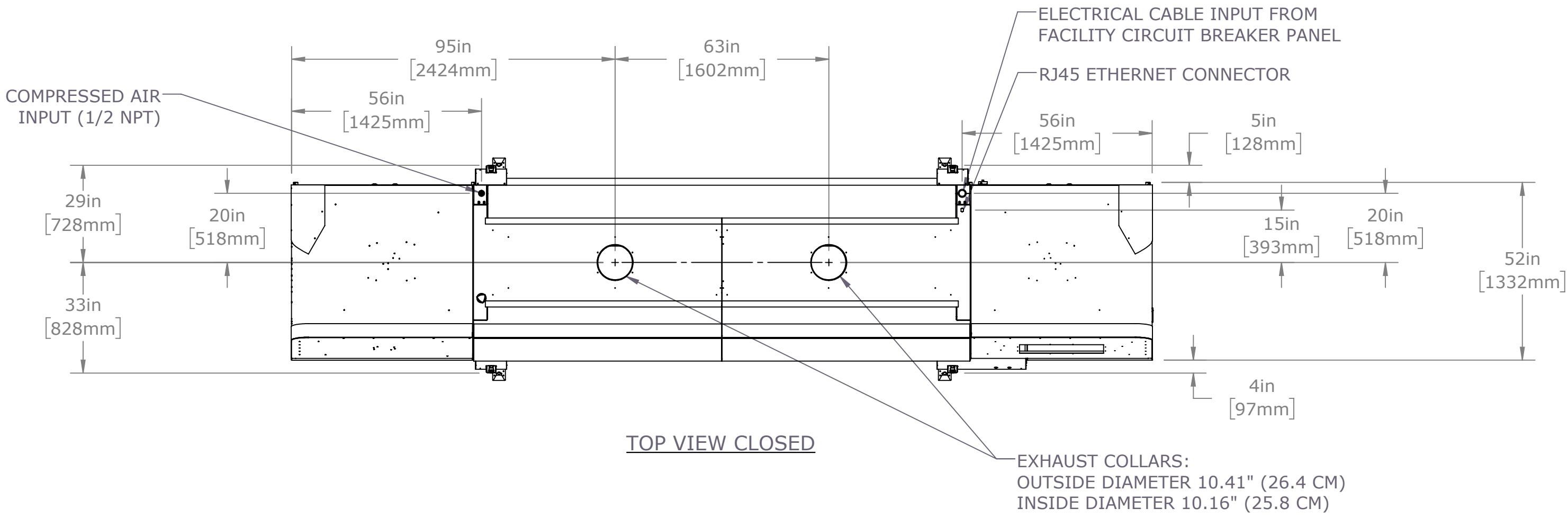
FRONT VIEW HOODS OPEN

- NOTES:
1. DIMENSIONS ARE NOMINAL EXCEPT AS SHOWN (DUAL DIMENSIONS ARE IN MILLIMETERS)
2. ALL DIMENSIONS ARE REFERENCE ONLY.

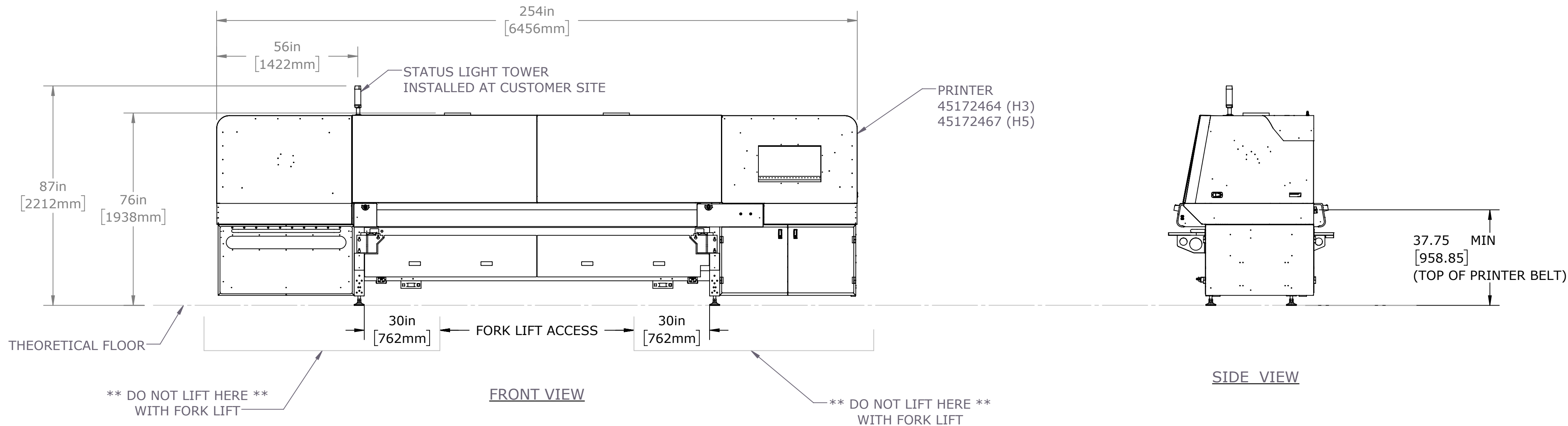
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES #1/16 .X .03 .X ±.5 XX .01 .XX ±.1 XXX .005 XXXX .0010 REMOVE ALL BURS AND SHARP EDGES EXCEPT WHERE NOTED OTHERWISE			CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING. PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF EFI, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF EFI, INC. IS PROHIBITED.			TITLE DOC, SITE DWG, H3_H5, WINDERS		
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COATINGS N/A	VERSION Dwg Ver: 9 FILENAME: 45182427.DWG; SITE DWG; H3_H5; WINDERS	Model Ver: 9	SCALE: 1:30			SHEET 1 of 4		



REV	DESCRIPTION	DATE	DRN BY	CHECKED
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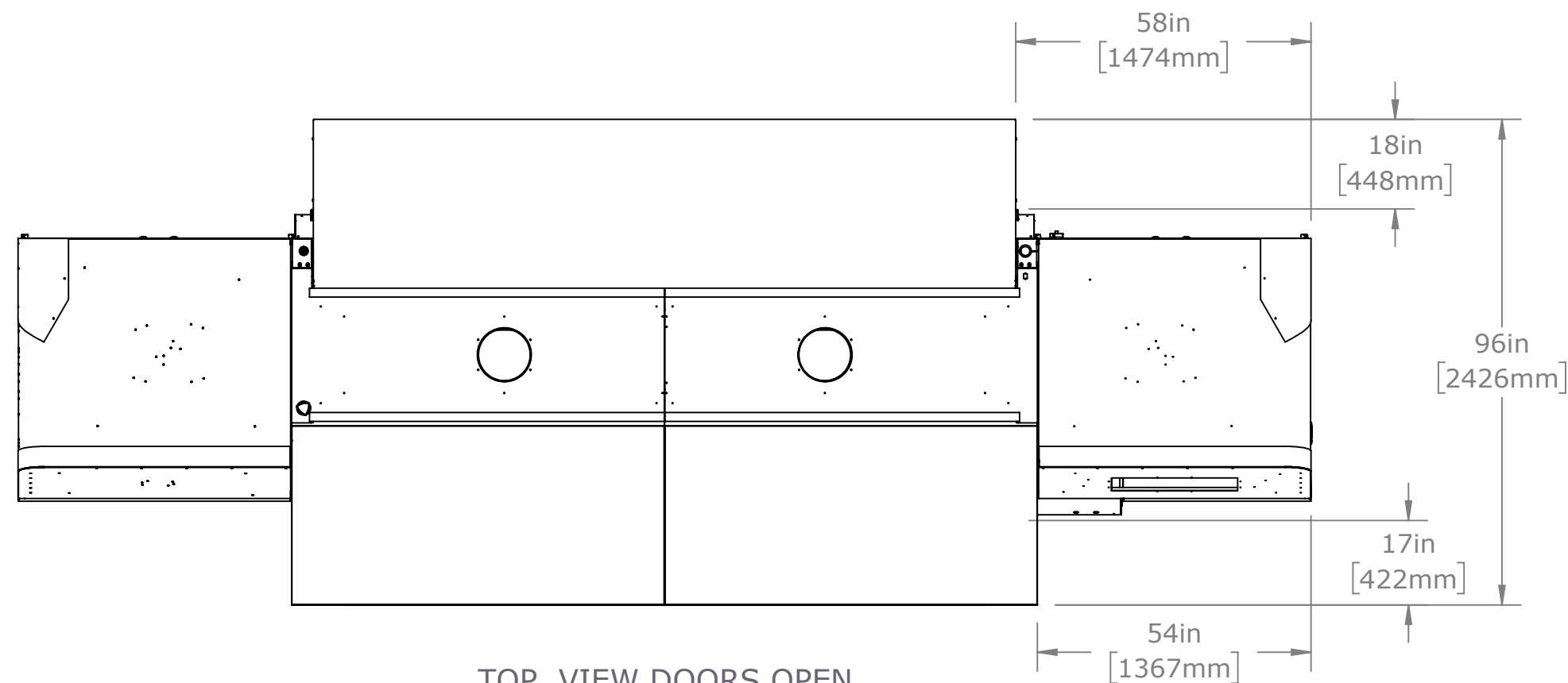


TOP VIEW CLOSED

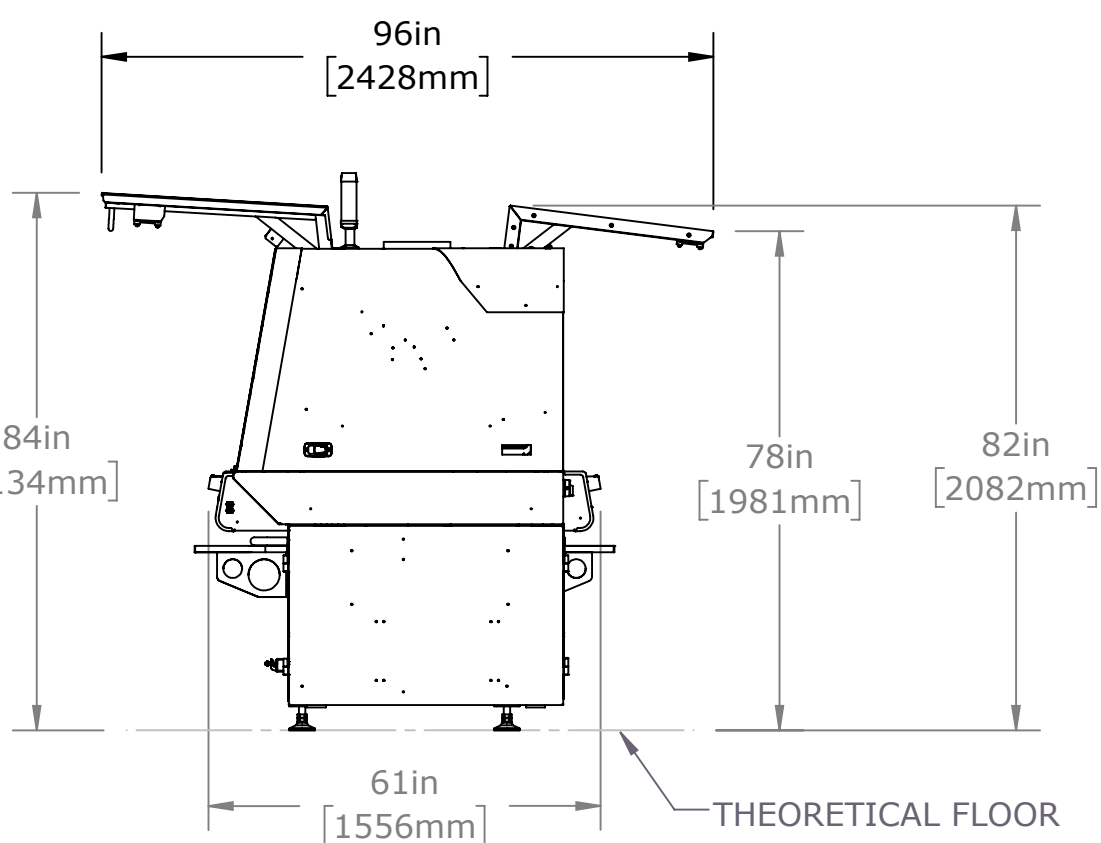


FRONT VIEW

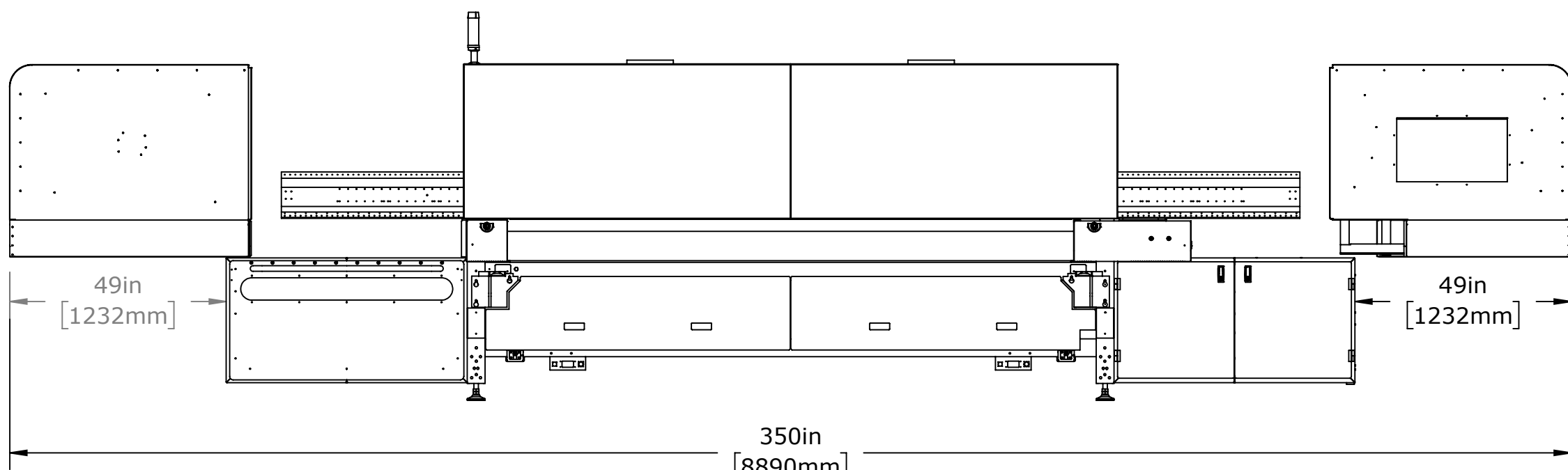
SIDE VIEW



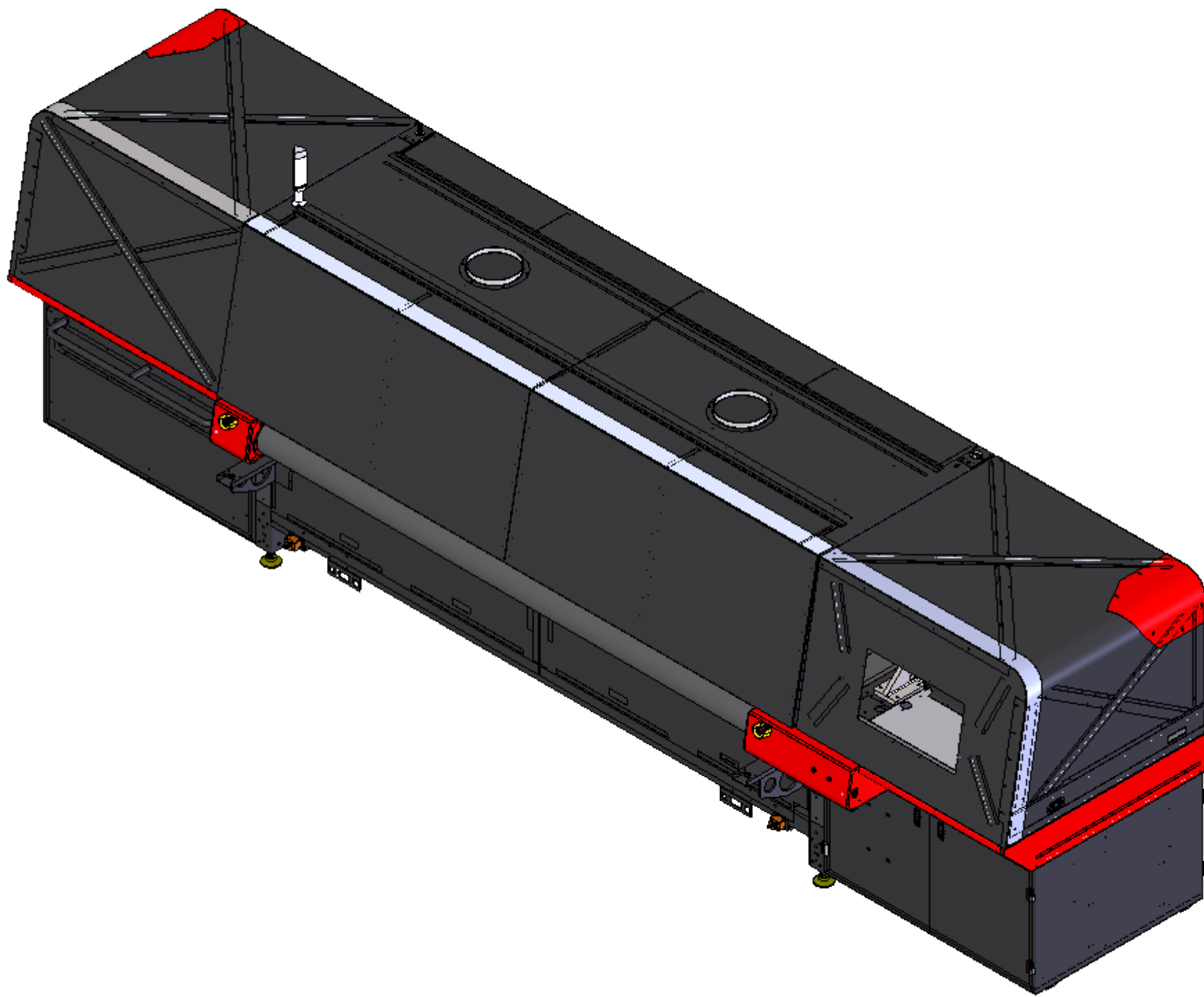
TOP VIEW DOORS OPEN



SIDE VIEW DOORS OPEN



FRONT VIEW HOODS OPEN

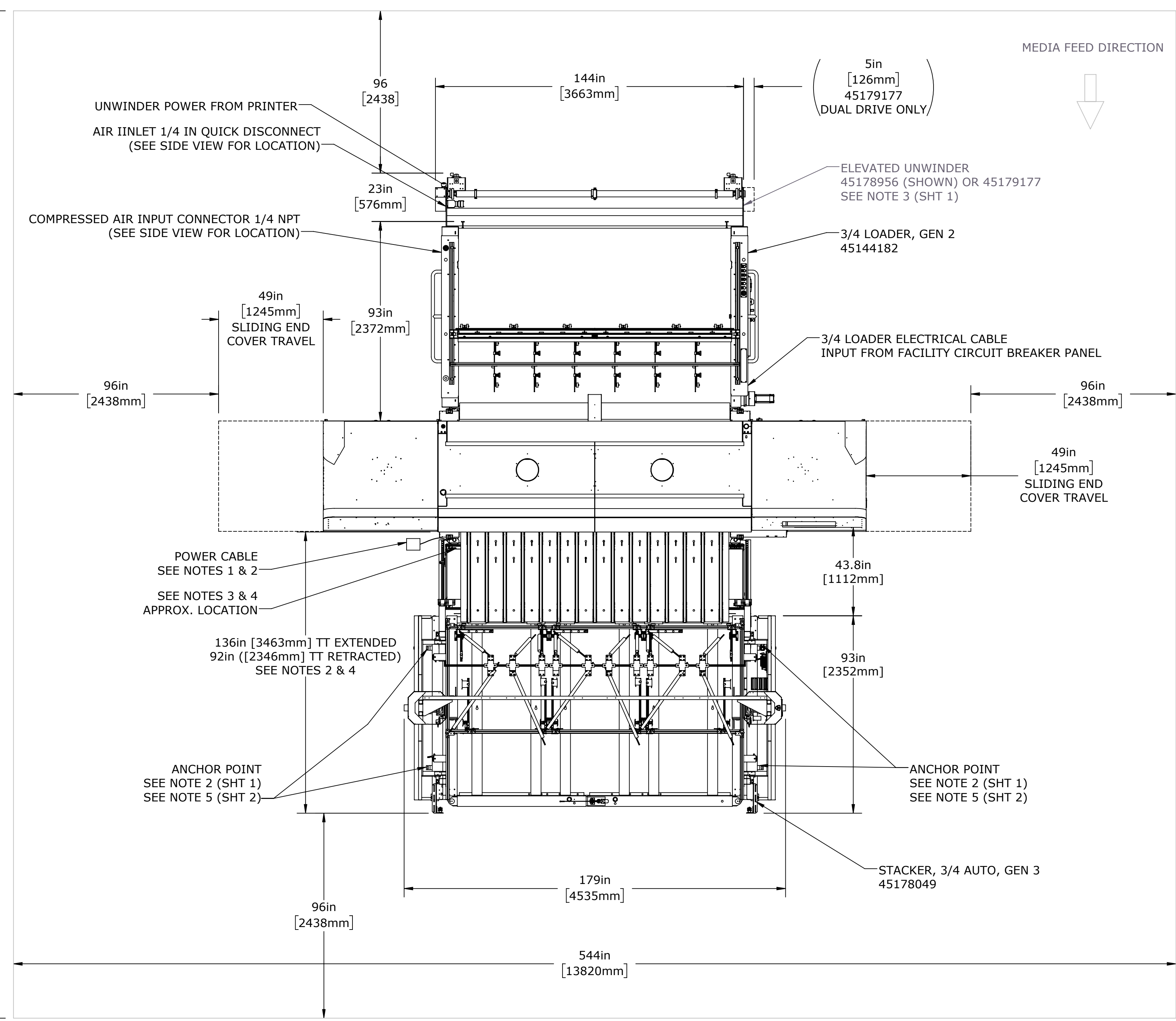


- NOTES:
- DIMENSIONS ARE NOMINAL EXCEPT AS SHOWN (DUAL DIMENSIONS ARE IN MILLIMETERS)
 - STACKER SHOWN ON SHEET 2 MUST BE ANCHORED TO THE FLOOR, AFTER FINAL POSITION IS ESTABLISHED.
 - ELEVATED UNWINDER REQUIRES DOCKING KIT 45182839 SUPPLIED WITH WINDER. SEE 45182427 FOR WINDER INPUT REQUIREMENTS.

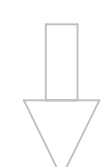
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efi™
DOC, SITE DWG, H3_H5,
3_4 AUTO

45182607

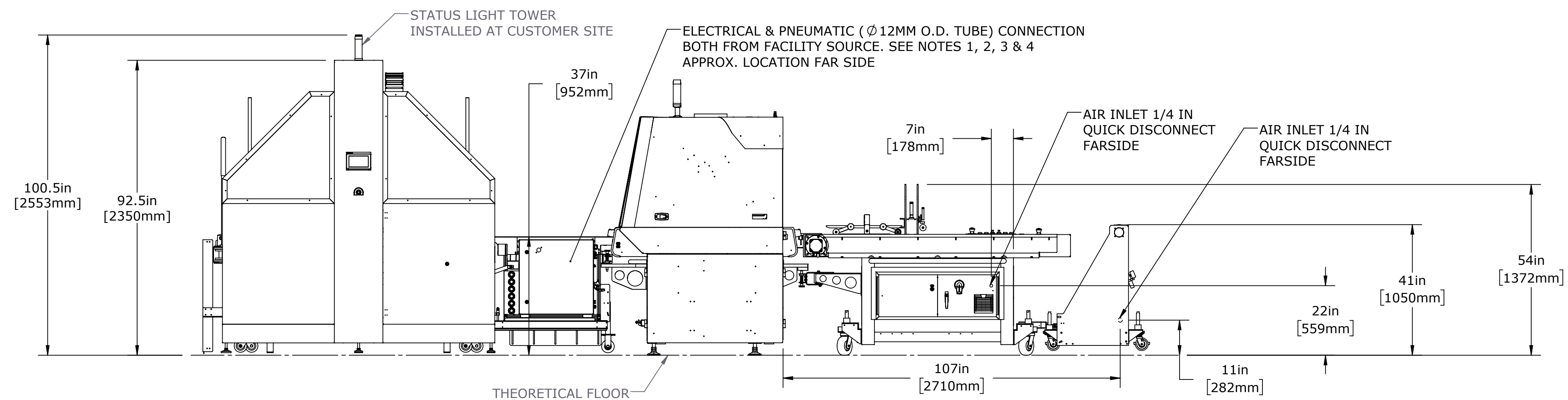
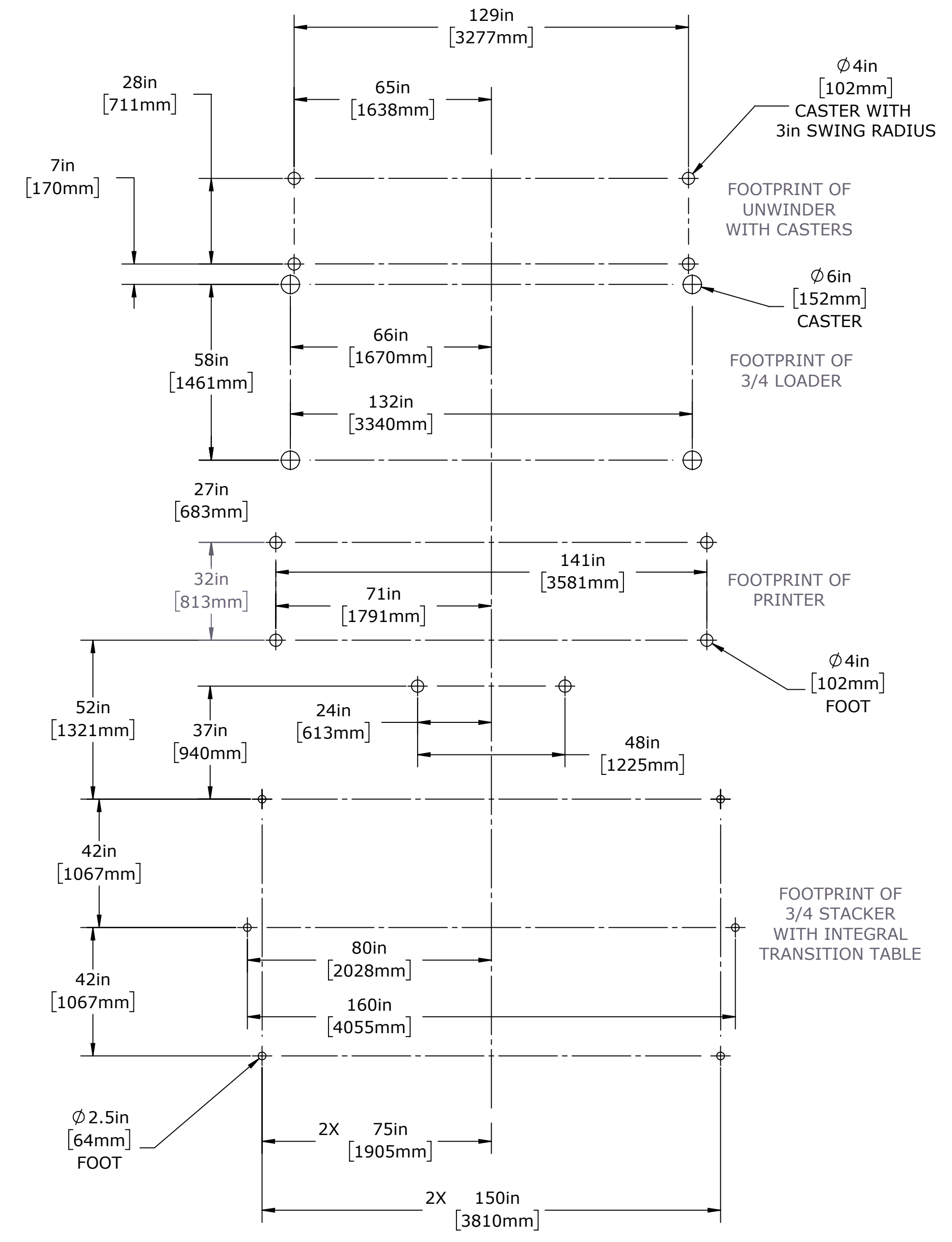


MEDIA FEED DIRECTION



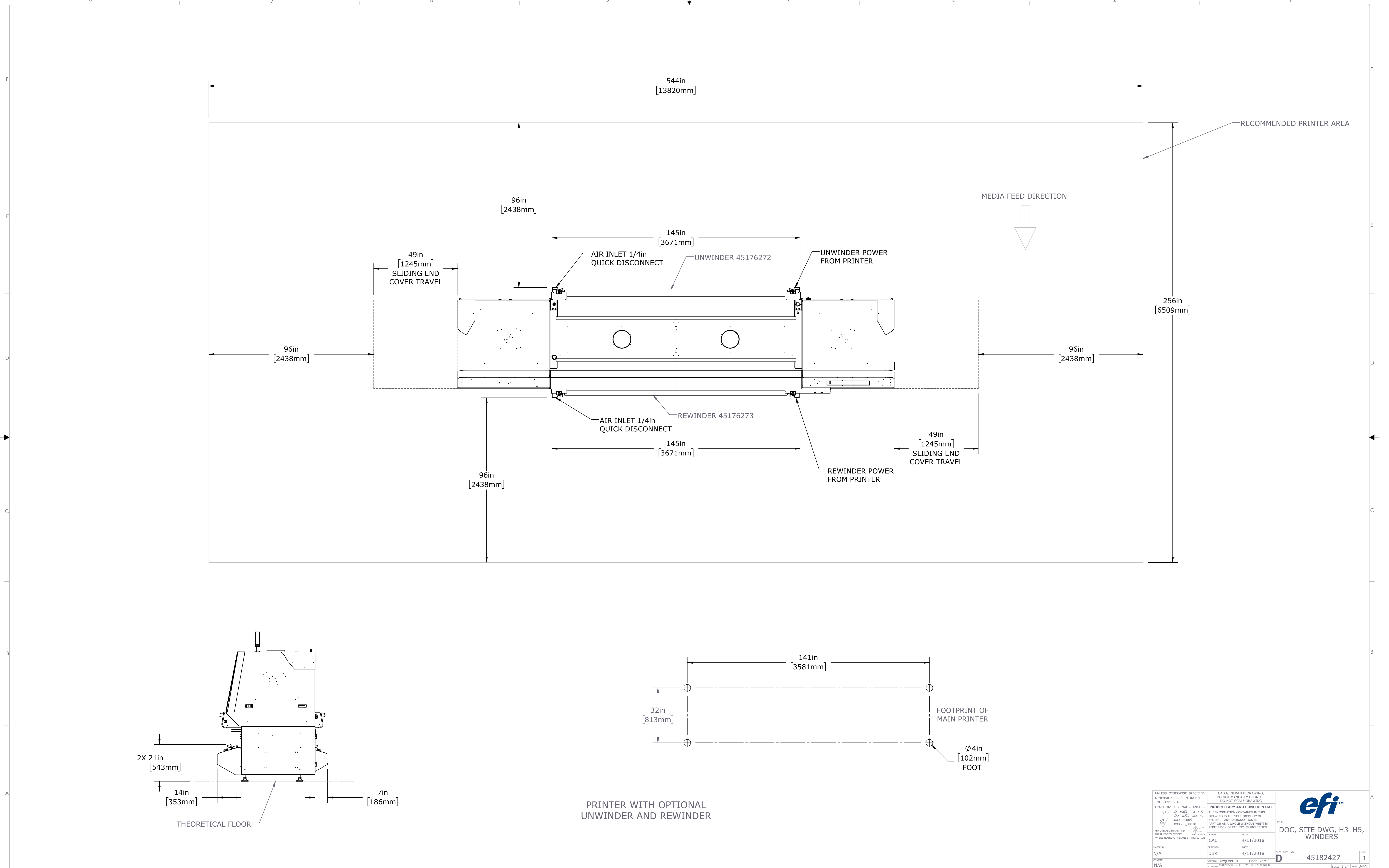
RECOMMENDED PRINTER AREA

- NOTES:
1. POWER REQUIREMENTS: DEFINED IN 3/4 STACKER GEN 3 ENGINEERING SPECIFICATION 45183714.
 2. POWER FEED MUST ACCOMMODATE THE TRANSITION TABLE (TT) IN BOTH EXTENDED AND RETRACTED POSITIONS.
 3. AIR REQUIREMENTS: CLEAN DRY AIR, 80CFM @ 90PSI
 4. AIR FEED MUST ACCOMMODATE THE TRANSITION TABLE (TT) IN BOTH EXTENDED AND RETRACTED POSITIONS.
 5. MACHINE LAGGING REQUIREMENTS: M12 CONCRETE ANCHORS IN 4" THICK MINIMUM OF 4000 PSI CONCRETE. ANCHOR ENGAGEMENT 3.5" MINIMUM
 6. ESTIMATED MACHINE WEIGHT: 4500 TO 5000 LBS
- FACILITY CONNECTIONS PROVIDED:
- AIR: 12MM OD TUBE RATED FOR 200 PSI OR GREATER
 - ELECTRICAL: NEMA STYLE L16-30P TWISTLOCK RECEPTACLE, 30 AMP, 4 WIRE



PRINTER WITH OPTIONAL
ELEVATED WINDERS & 3/4 LOADER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES #1/16 .X .03 .X ±.5 XX .01 .XX ±.1 XXX .005 XXXX .0010	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF EFI, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF EFI, INC. IS PROHIBITED.	TITLE DOC, SITE DWG, H3_H5, 3_4 AUTO	REV 1
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PRINTER WITH OPTIONAL
UNWINDER AND REWINDER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES #1/16 .X .03 .X $\pm$ 5 .XX .01 .XX $\pm$ 1 XXX .003 XXXX .0010	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING. PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF EFI, INC.. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF EFI, INC. IS PROHIBITED.	efi™ DOC, SITE DWG, H3_H5, WINDERS
REMOVE ALL BURS AND SHARP EDGES EXCEPT WHERE NOTED OTHERWISE	DATE 4/11/2018 CAX 4/11/2018 DBR 4/11/2018 VERSION Dwg Ver: 9 Model Ver: 9 FILENAME: 45182427.DWG; SITE DWG; H3_H5; WINDERS	
FORM 423-11D		

