



AR SERIES

Digital Ceramic In-Glass Printers

Grow your business with a comprehensive glass printing solution

Dip-Tech's digital in-glass printing solution combines the durability of ceramic inks with the versatility and quality of digital printing. The end-to-end Dip-Tech solution ensures exceptional printing results for multiple applications, optimal printer productivity and a proven approach to market penetration. It includes:

- One investment – many applications
- Field-proven digital in-glass printers
- Comprehensive range of digital ceramic inks
- Design-to-glass software for advanced image processing
- Tools and strategies spanning all aspects of glass printing – technical, graphics, applications, business development, sales and marketing
- Extensive Dip-Tech know-how and responsive service

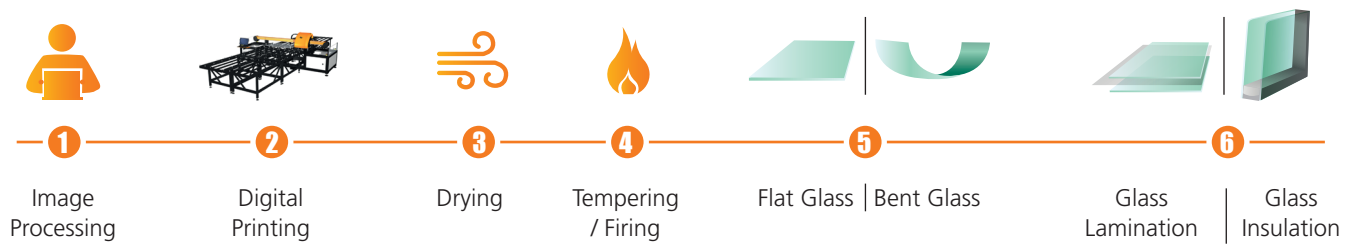
Powerfully boost the value of your glass offering

Advance your business with the most versatile digital ceramic glass printers available – the Dip-Tech AR Series. Offering highly-durable digital ceramic in-glass printing for both exterior and interior applications, these advanced printers support any size glass, up to mega-sized panels for building facades and interior walls. The AR Series provides:

- Top-of-the-line productivity and performance for medium-large production lines
- Excellent printing quality
- Optimized footprint for production floor space
- Workflow efficiency



WORKFLOW



Key Specifications

	Dip-Tech AR1400	Dip-Tech AR4000	Dip-Tech AR6000	Dip-Tech AR6000W
Resolution	720 dpi			
Maximum throughput (sqm/h) *	76	76	76	76
Maximum glass size (mm)	2800 x 1400	2800 x 4000	2800 x 6000	3300 x 6000
Minimum glass size (mm)	800 x 800 Smaller glass sizes supported by a designated jig			
Glass thickness (mm)**	2-19	2-19	2-19	2-12
Inks	Dip-Tech Premium Spectrum Inks, Dip-Tech Extra Durable S1 Inks, Dip-Tech Slip-Resistance Ink, Dip-Tech Architectural Light Scattering Ink, Dip-Tech Automotive Black Ink, Dip-Tech Anti-Stick Ink			
Drop Fixation system	Included			
Software	DXP3 Advanced (includes Pattern Generator, Color Atlas)			
Inline pass through conveyer	Included			
Dryer	Real-Time Dryer Kit (optional)			
Overall dimensions (mm)	6070 x 3300 x 1600	6070 x 5800 x 1600	6070 x 7750 x 1600	6070 x 7750 x 1600
Image format	All popular graphic formats, including PDF, PS, EPS, Tiff, BMP and JPEG			
Ambient temperature	18-25°C			
Electrical phase	3X16A			

* Maximum throughput for sellable printed glass. Depends on the number of colors, coverage and layer thickness.

** Maximum glass thickness is dependent on total glass weight.



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In-line Dryer



Ver.1

2013

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Introduction

Dip-Tech’s “In line dryer” is an additional component to be installed over Dip-tech’s AR series machines. It dries the printed glass throughout the printing process and solves issues as dust accumulation and prolonged air-dry waiting period prior to mobilizing the glass. Additional significant advantage of Dip-Tech’s “In line dryer” is the amount of space it saves previously occupied by a dedicated drying machine.

Requirements

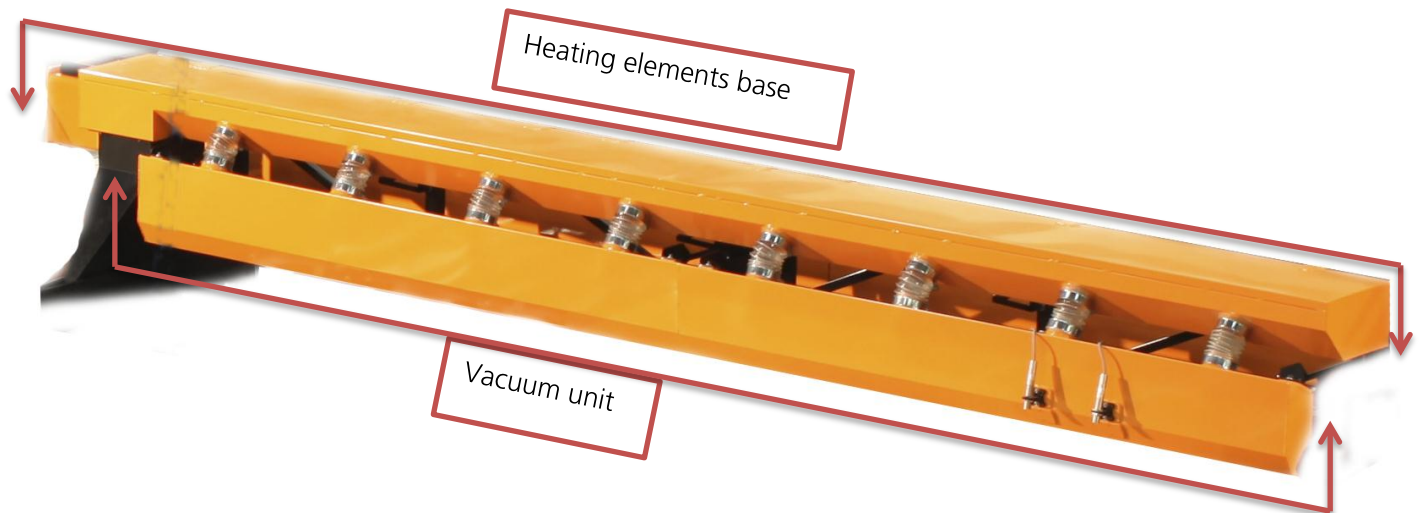
- Electricity – 3 phase x 100 amp outlet
- Blower to ventilate exhaust - 1800 M3/h (not included)

Assembly time

Five working days

How it works

The dryer is the same width as the printing table and it is located on the X axis beam – behind the print heads carriage.



- The printer starts printing at the far end of the glass and works its way towards the operator.
- As soon as the X beam got closer to the operator and the dryer hovers over the printed image, the dryer kicks in and heating up the glass to 80° whilst simultaneously vacuuming exhaust fumes
- It continues to heat the glass in intervals to maintain this temperature
- At the end of the print, the conveyer forwards the remaining unheated glass bellow the dryer
- In case you are printing >40 micron of a single color in a high speed printing mode (press), you may need to have the dryer complete additional cycle.

Ventilation Blower Requirements

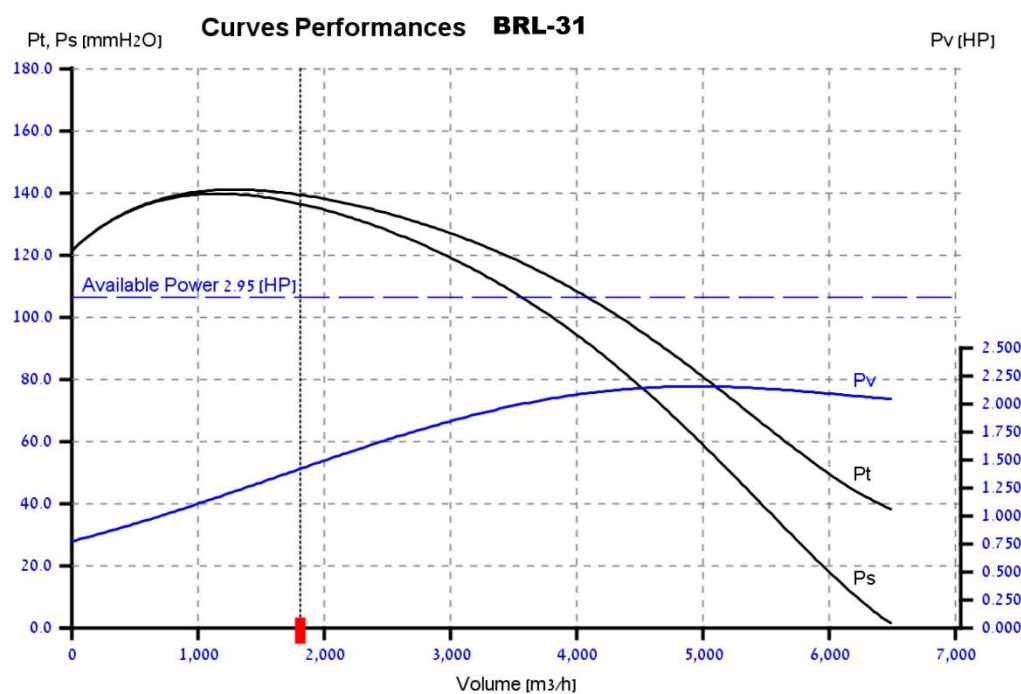
In order to exhaust fumes from the dryer it must be connected to a ventilation blower with following specs -

- Vacuum outlet 1200 CFM
 - Vacuum Pipe Diameter 200 (mm) – (8 Zoll)
 - Minimum Static pressure = 126 mm wg
-
- Dip-Tech's "In-line Dryer" does not contain integral blower and a vacuum pipe as its length is customized per factory. Those components should be attained independently with the stated above specs

Optional Blower

Upon request, Dip-Tech is able to provide you with the following dryer at additional cost



Performances BRL-31Volume: **1,800.00** [m3/h]Total Pressure: **139.24** [mmH2O]Static Pressure: **136.37** [mmH2O]RPM: **2,840**Absorbed Power: **1.42** [HP]Installed Power: **see Default Motor**Efficiency: **64.40** %Pot. sonora funzionamento: **84.50** [dBA]Working Sound Press.: **77.00** [dBA]**Default Motor**Code: **90 L-2** Power: **2.2** [KW]Frequency: **50** [Hz] **2.95** [HP]Poles N.: **2****Picture****Limits RPM**

<=20 C°: 3820
 20-100 C°: 3500
 100-200 C°: 3100
 200-300 C°: 2750

Conditions

Altitude a.s.l. [m]

0

Temperature [°C]

20.0

RPM

2,840

x1

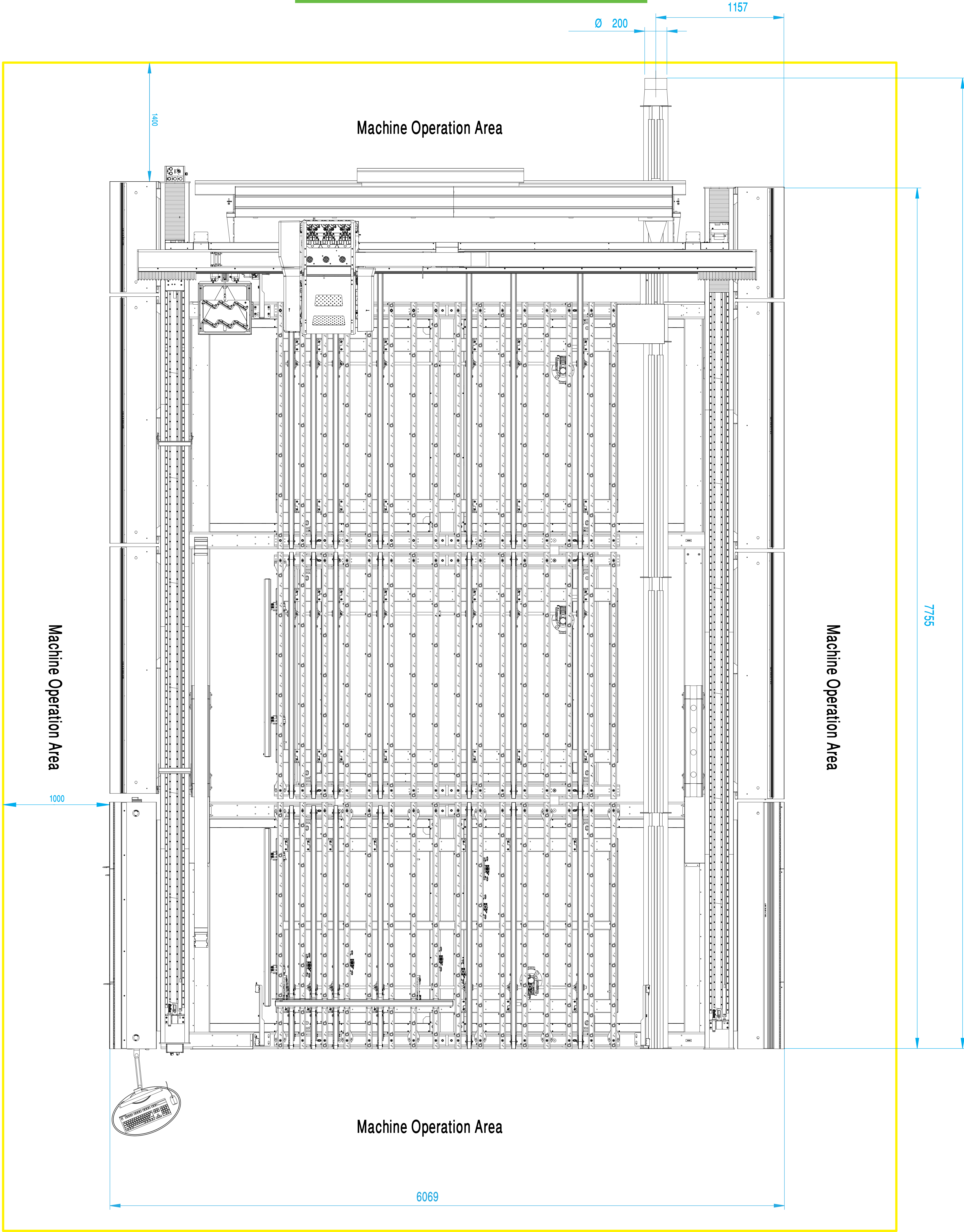
x10

x100

(50 Hz)

Volume: **1,800.0** Tot. Press.: **139.24** Stat. Press.: **136.37** Abs. Pow.: **1.4218**

Outlet



8734 With Dyer

7755

Machine Operation Area

Machine Operation Area

Machine Operation Area

6069

Machine Operation Area

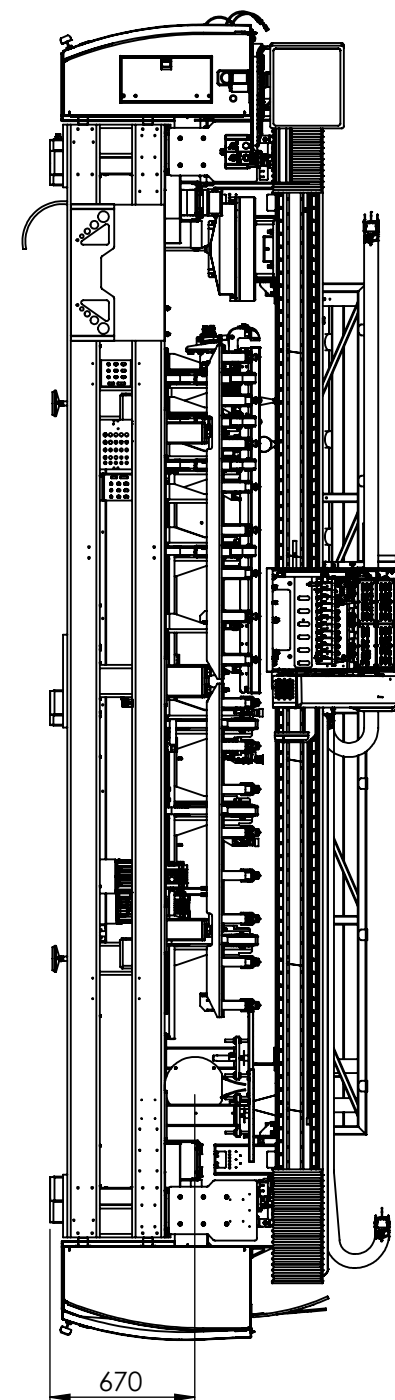
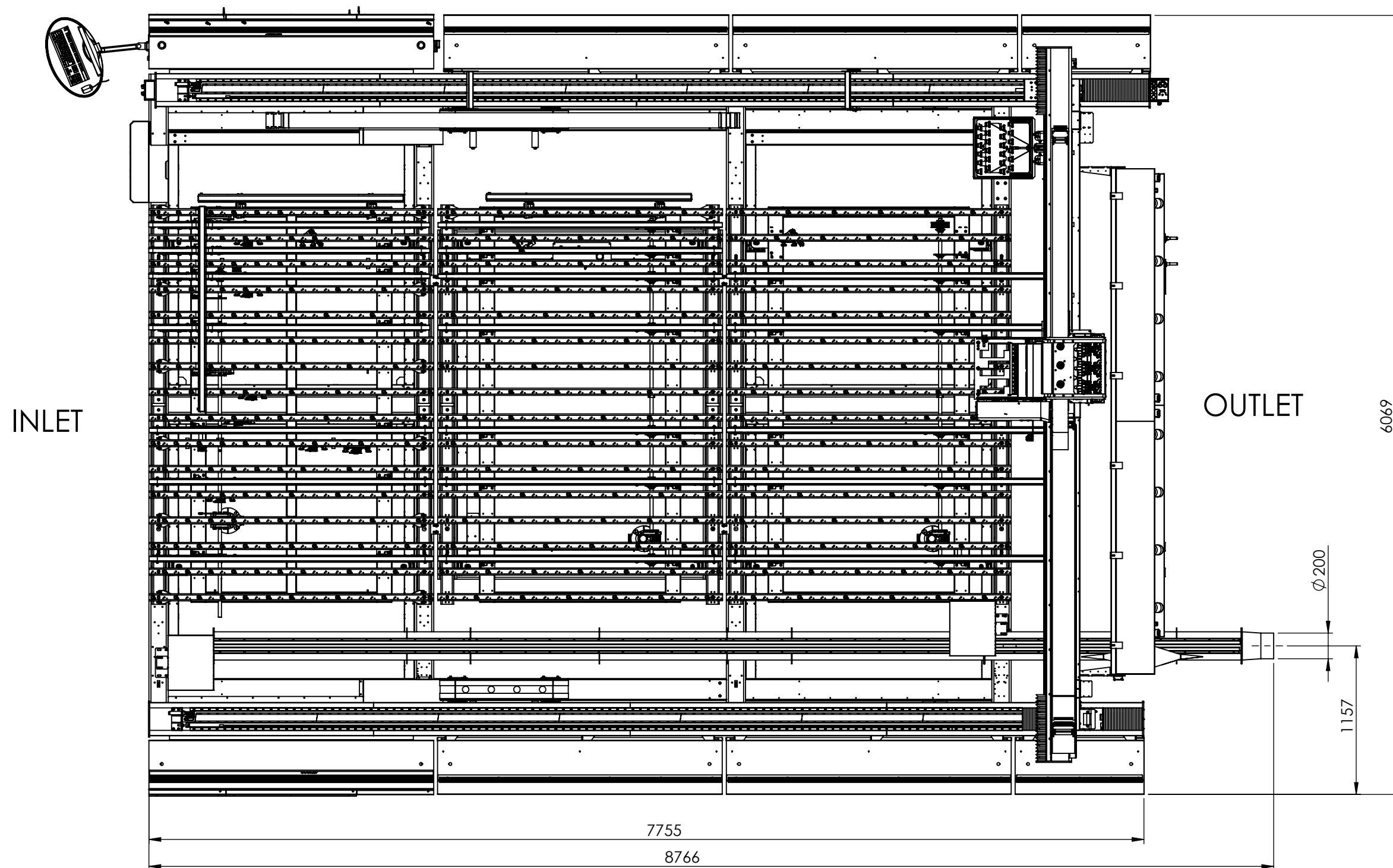
1000

1400

1157

Ø 200

Intlet



Electricity Outlet 3 phase x 100A
 Vacuum Outlet 1200 CFM
 Vacuum Pipe Diameter 200 [mm]

GENERAL NOTES

DIMENSIONS ARE IN MM
 DO NOT SCALE DRAWING
 TRUE POSITION TOLERANCES
 ARE AT MMC.

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FIRST ANGLE PROJECTION



MACHINING NOTES

TOLERANCES UNLESS
 OTHERWISE SPECIFIED
 ON HOLE & INT. THREAD
 LOCATION IS ± 0.2

BREAK ALL SHARP EDGES
 0.1-0.4 RAD. OR 45° CHAMFER
 TOLERANCES UNLESS
 OTHERWISE SPECIFIED ± 0.3

ANSI Y14.5 M

METRIC

MATERIAL:

Material <not specified>

FINISH:

HEAT TREATMENT:

-NONE-

DRAWN Yaniv K.

DESIGN Yaniv K.

APPRVD. Kobi L.

DATE 04/03/2014



PROJECT
 NAME:

ASSY.
 NAME:

SUB ASSY.
 NAME:

DESCRIP:

DWG. #

A3

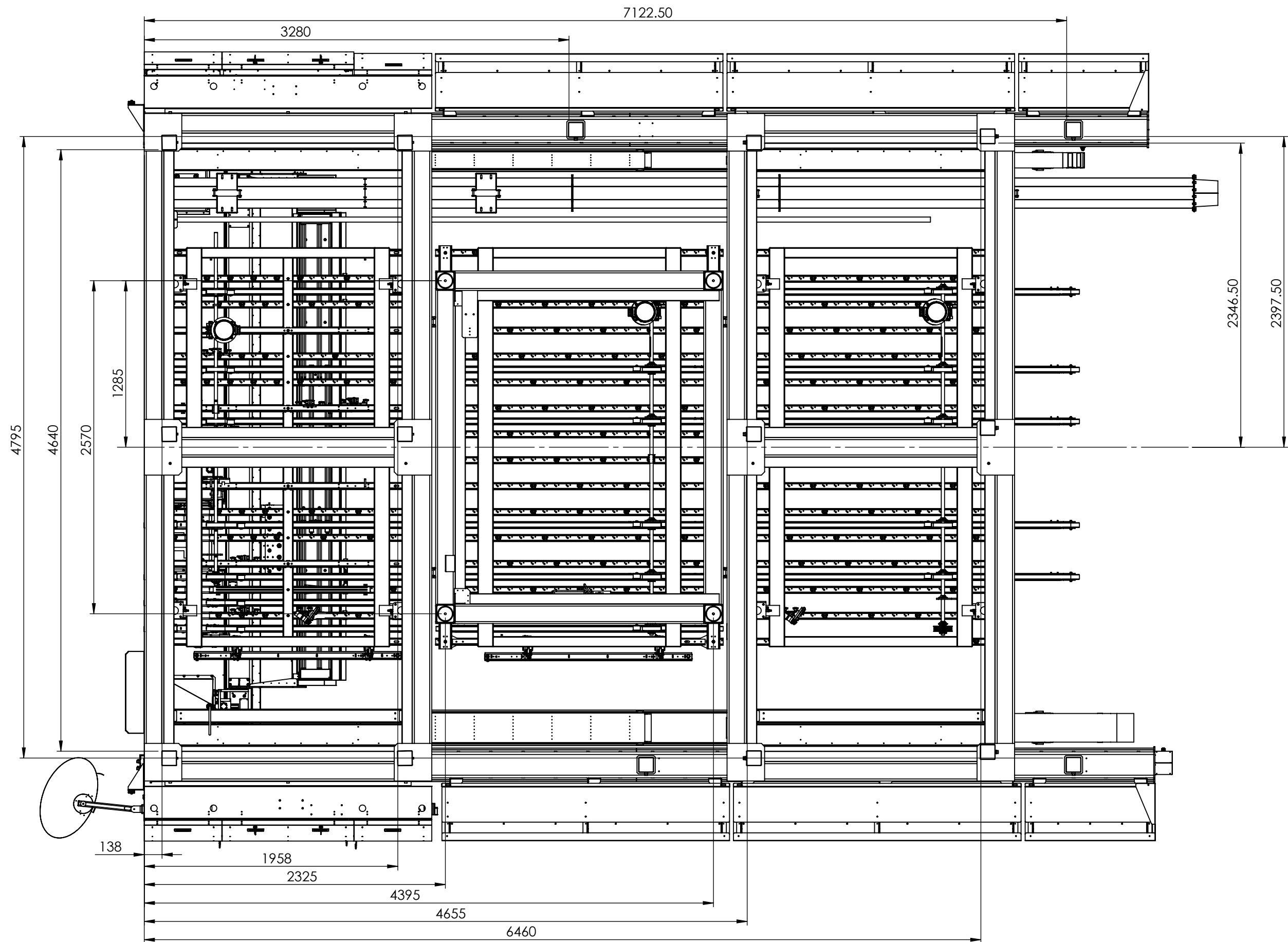
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Jumbo Jet 24ph

AR6000 Layout

900-00-00-000_Layout

SCALE 1:100 Sheet :1 Of: 2 REVISION: 2



<div>FIRST ANGLE PROJECTION</div> <div></div>	<div>MATERIAL:</div> <div>Material <not specified></div> <div>MACHINING NOTES</div> <div>TOLERANCES UNLESS OTHERWISE SPECIFIED: ON HOLE & INT. THREAD LOCATION IS ± 0.2 BREAK ALL SHARP EDGES 0.1-0.4 RAD. OR 45° CHAMFER TOLERANCES UNLESS OTHERWISE SPECIFIED +/- 0.3</div>	<div>FINISH:</div>		<div> 5 Atir Yeda St., Kfar Saba, 44643, Israel Tel: +972 97908400 Fax: +972 97908440 wwwdip-tech.com</div>					
	<div>HEAT TREATMENT:</div> <div>-NONE-</div>								
<div>GENERAL NOTES</div> <div>DIMENSIONS ARE IN MM DO NOT SCALE DRAWING TRUE POSITION TOLERANCES ARE AT MMC.</div> <div>DIP-TECH PROPRIETARY</div> <div>THIS DOCUMENT CONTAINS CONFIDENTIAL, PROPRIETARY INFORMATION THAT IS DIP-TECH'S PROPERTY. DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS EXCEPT AS AUTHORIZED BY DIP-TECH</div>	<div>ANSI Y14.5 M</div> <div>METRIC</div>	<div>DRAWN</div> <div>Yaniv K.</div>	<div>DESCRIP:</div> <div>AR6000 Layout</div>						
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		<div>APPRVD.</div> <div>Katib LL.</div>	<div>DWG. #</div> <div>900-00-00-000_Layout</div>						
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