

Specification



MA5300V-4500

MARS 5 Series: Toggle Clamp Servo-Hydraulic



Clamping Unit		MA5300V/4500
Clamping Force	kN	5300
	US Tons	596
Mold Opening Stroke (Min/Max)	mm	850
	in.	33.46
Minimum Mold Height	mm	350
	in.	13.78
Maximum Mold Height	mm	850
	in.	33.46
Maximum Daylight	mm	1700
	in.	66.93
Distance Between Tie-Bars (HXV)	mm	840x830
	in.	33.07x32.68
Platen Dimensions (HXV)	mm	1240x1250
	in.	48.82x49.21
Ejector Stroke	mm	220
	in.	8.66
Ejector Force	kN	158
	US Tons	18

Specification



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Injection Unit		4500		
Screw & Barrel Designation		A	B	C
Screw Diameter	mm	80	85	90
	in.	3.15	3.35	3.54
Screw L/D Ratio	L/D	23.4	22	20.8
Injection Volume (theoretical)	cm ³	2211	2496	2799
	cu.in.	134.92	152.32	170.81
Injection Weight (PS)	g	2012	2272	2547
	oz.	70.97	80.14	89.84
Injection Rate (PS)	g/s	516	583	654
	oz./s	18.20	20.56	23.07
Injection Pressure	MPa	210	186	165
	psi	30458	26977	23931
Plasticizing Rate (GPPS)	g/s	80.2	88.7	101
	oz./s	2.83	3.13	3.56
Screw Speed	rpm	200	200	200



Absolute Haitian Corporation • 33 Southgate St. Worcester, MA 01610
508-459-5372 • absolutehaitian.com

Specifications subject to change without notice



Rev 2 7/15/2024

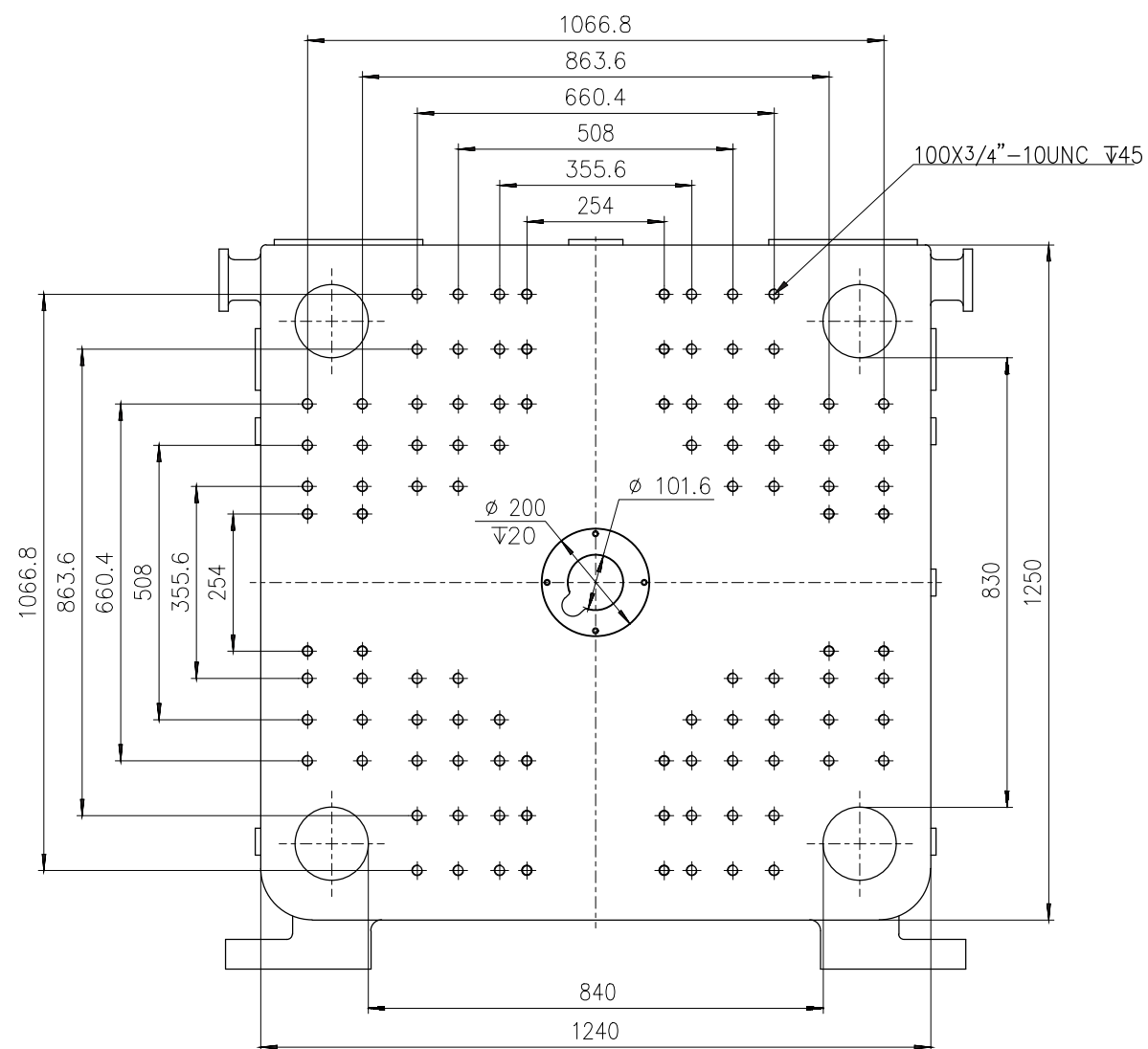
MA5300V-4500

MARS 5 Series: Toggle Clamp Servo-Hydraulic

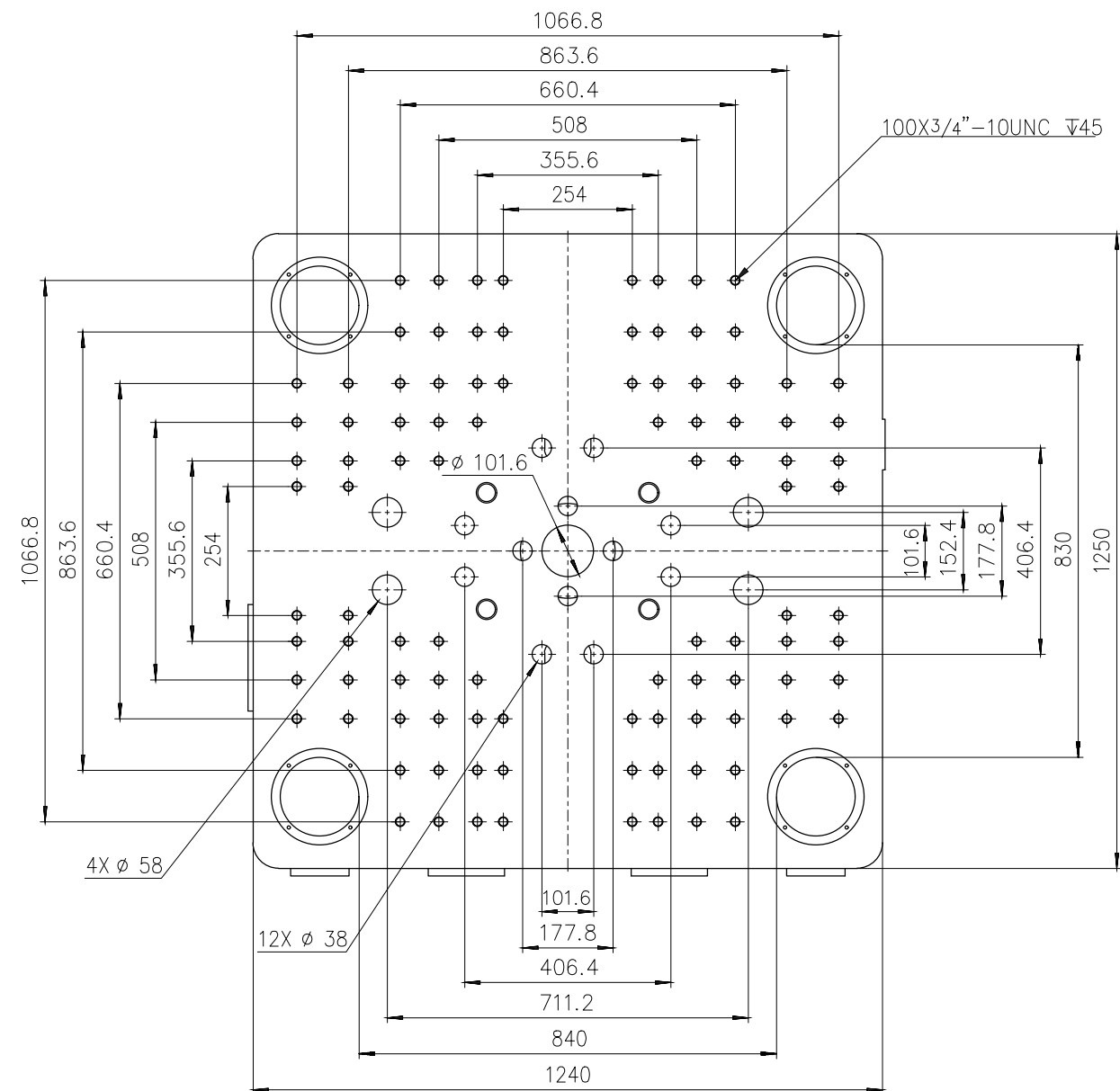
Other		
Pump Motor Power	kW	85
Heater Power	kW	48
Machine Dimension (LxWxH)	m	9.17x2.04x2.73
	in.	361x80x107
Machine Weight	t	23
	lbs.	50706
Hopper Capacity	kg	100
	lbs.	220
Oil Tank	l	720
	gal	190

***NOTE:**

1. Electric screw drive (screw rotate) is standard for injection units under 10600. For injection units 10600 and above electric screw drive is optional.
2. Machine dimensions and weights are based on the international standard configuration and are for reference only. Any options or country specific requirements will affect this. Contact Absolute Haitian service department for machine specific information.
3. Power requirements are based on the international standard configuration and are for reference only. Any options or country specific requirements will affect this. Contact Absolute Haitian service department for machine specific information.



Fixed Platen



Moving Platen



Absolute Haitian Corporation
33 Southgate St. Worcester, MA
T:+1 508-792-4305
www.absolutehaitian.com

Title: MAV 5300 Fixed & Moving Platens Drawing			
Machine Model: MAV 5300		Sheet: 1 of 1	
Machine Serial Number:		Drawn By: Harry	Date: 1/9/2024
Machine Tonnage:		Chkd By: LEON XIE	Date: 1/9/2024
Revision	Date:	Drawing #:	NOT TO SCALE
Rev #: 1			Size: 11 X 17 "B"
Rev #: 2			Units: mm / [in]
Rev #: 3			Material:
Rev #: 4			Part:
Rev #: 5			Part:

PLEASE READ:

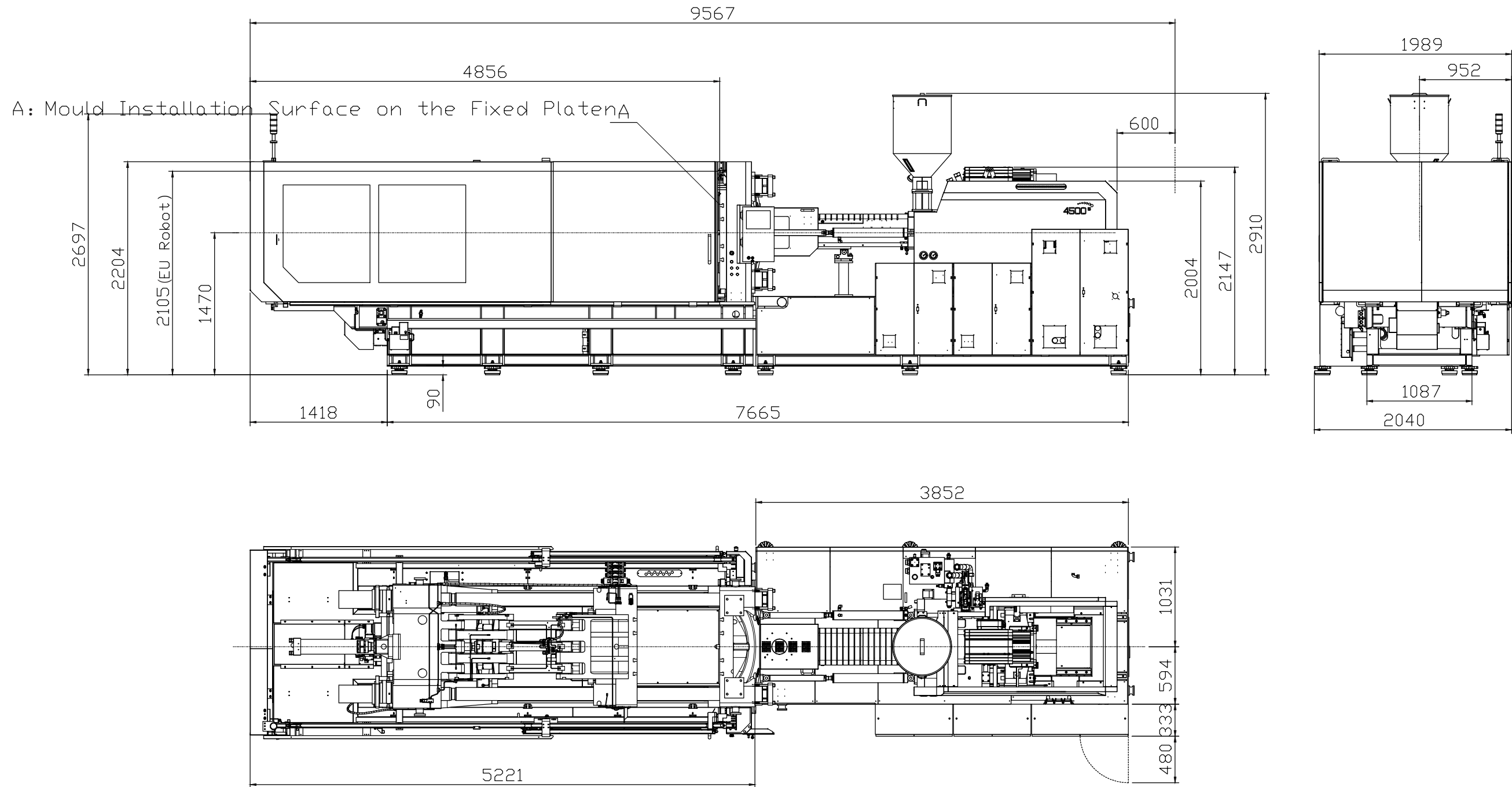
The designs on this drawing were validated using machine manufacturer's drawings and/or information supplied by Absolute or the customer. It is the responsibility of the customer to review and confirm that all dimensions are consistent with the application intended and in accordance with the facility requirements for space, part clearance, overhead clearance, or any other interference. By signing this document, the customer accepts full responsibility for this design and application.

Customer:

Customer Approval:

Authorized Signature

Notes:



Absolute Haitian Corporation
33 Southgate St. Worcester, MA
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www.absolutehaitian.com

Title: MA V 5300 Layout Drawing

Machine Model: MA V 5300

Machine Serial Number:

Machine Tonnage:

Sheet: 1 of 1

Drawn By: Harry

Date: 3/21/2024

Chkd By: LEON XIE

Date: 3/21/2024

NOT TO SCALE

Size: 11 X 17 "B"

Units: mm / [in]

Material:

Part:

Part:

Part:

Part:

Part:

PLEASE READ:

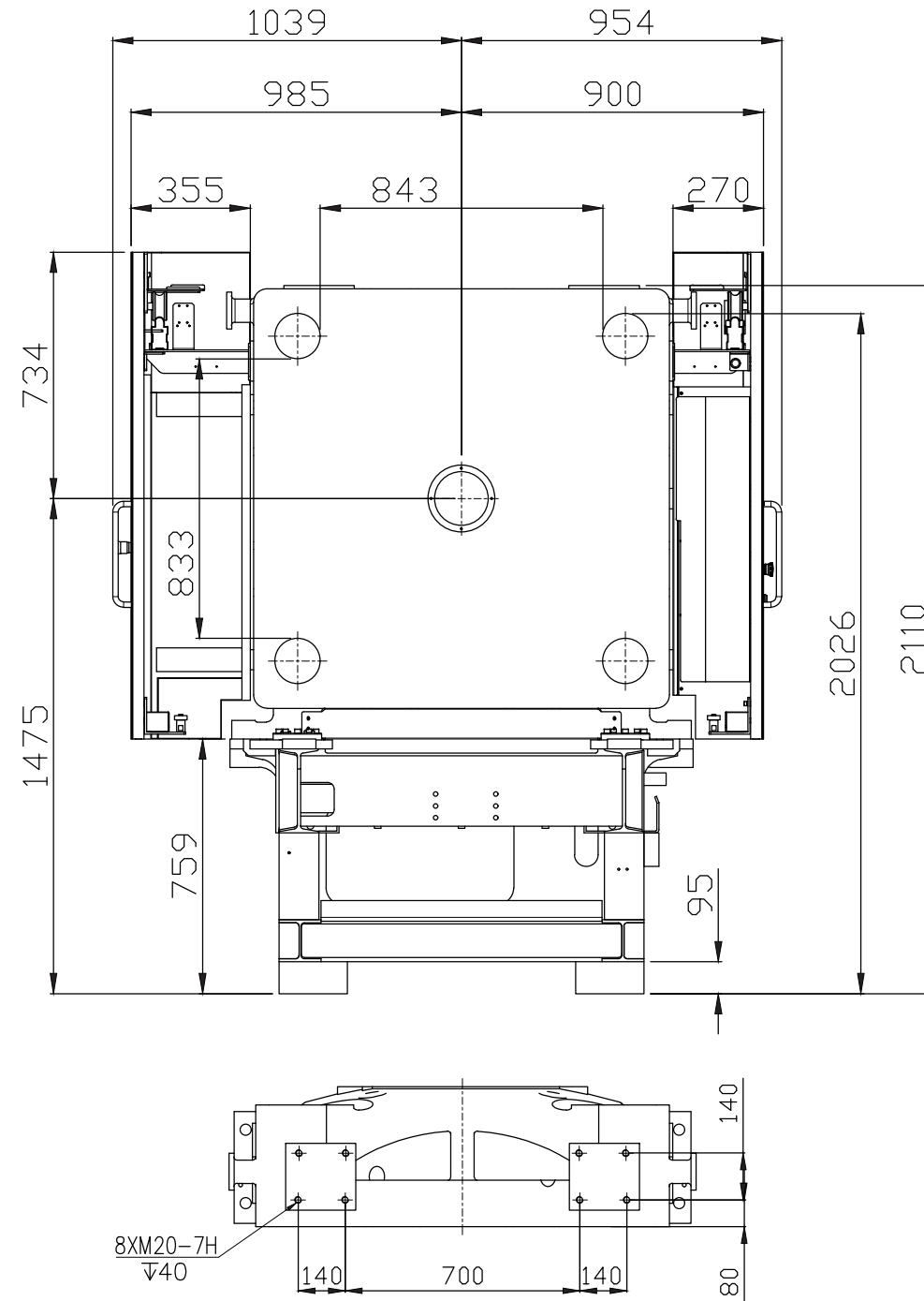
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Customer Approval:

Authorized Signature

Notes:



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Title: MA V 5300 Robot Mounting Drawing

Machine Model: MA V 5300
Machine Serial Number:
Machine Tonnage:

Sheet: 1 of 1

Drawn By: Harry

Date: 4/9/2024

Chkd By: LEON XIE

Date: 4/9/2024

Revision Date: Drawing #: Robot Mounting

NOT TO SCALE

Size: 11 X 17 "B"

Rev #: 1

Rev #: 2

Rev #: 3

Rev #: 4

Rev #: 5

Units: mm / [in]

Material:

Part:

Part:

Part:

Part:

Part:

PLEASE READ:

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Customer:

Customer Approval:

Authorized Signature

Notes: