

Specification



MA7000V-5000

MARS 5 Series: Toggle Clamp Servo-Hydraulic



Clamping Unit		MA7000V/5000
Clamping Force	kN	7000
	US Tons	787
Mold Opening Stroke (Min/Max)	mm	970
	in.	38.19
Minimum Mold Height	mm	400
	in.	15.75
Maximum Mold Height	mm	940
	in.	37.01
Maximum Daylight	mm	1910
	in.	75.2
Distance Between Tie-Bars (HXV)	mm	960x940
	in.	37.8x37.01
Platen Dimensions (HXV)	mm	1405x1386
	in.	55.31x54.57
Ejector Stroke	mm	260
	in.	10.24
Ejector Force	kN	186
	US Tons	21

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Injection Unit		5000		
Screw & Barrel Designation		A	B	C
Screw Diameter	mm	80	90	100
	in.	3.15	3.54	3.94
Screw L/D Ratio	L/D	24.8	22	19.8
Injection Volume (theoretical)	cm ³	2261	2862	3534
	cu.in.	137.97	174.65	215.66
Injection Weight (PS)	g	2058	2605	3216
	oz.	72.59	91.89	113.44
Injection Rate (PS)	g/s	549	694	857
	oz./s	19.37	24.48	30.23
Injection Pressure	MPa	237	187	152
	psi	34374	27122	22046
Plasticizing Rate (GPPS)	g/s	85	107	131
	oz./s	3.00	3.77	4.62
Screw Speed	rpm	190	190	190



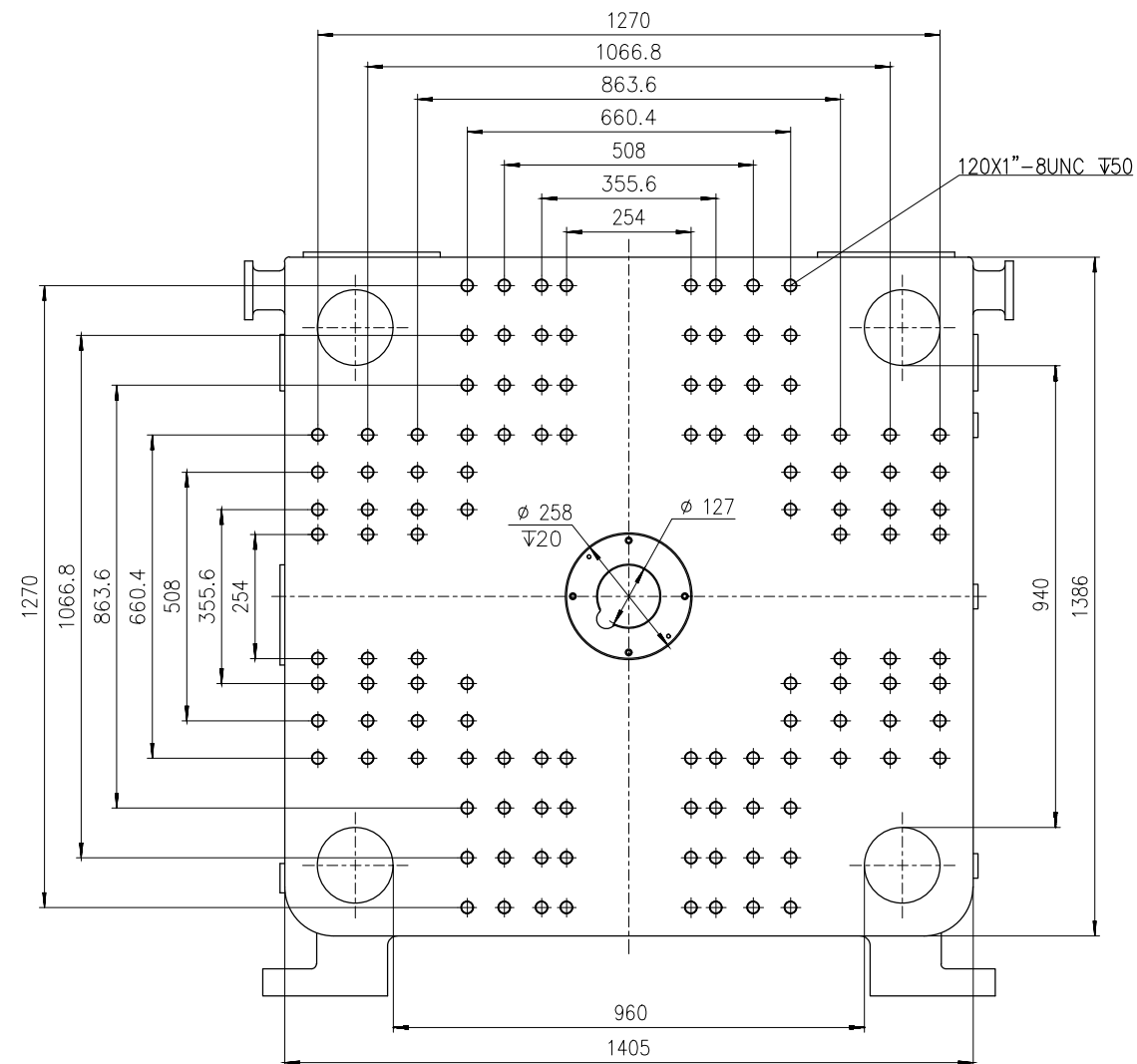
MA7000V-5000

MARS 5 Series: Toggle Clamp Servo-Hydraulic

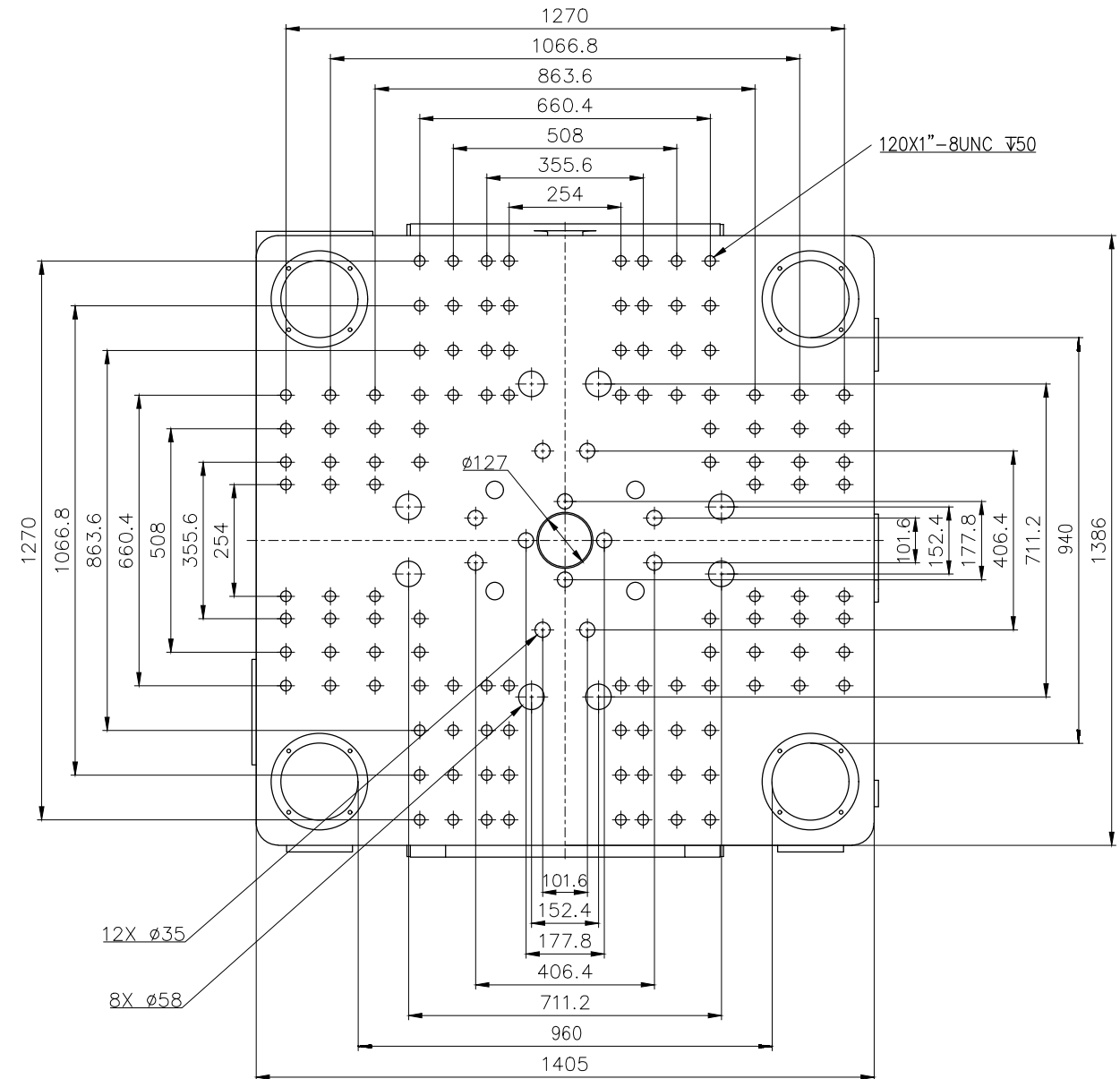
Other		
Pump Motor Power	kW	65+37
Heater Power	kW	54.3
Machine Dimension (LxWxH)	m	10.47x2.24x2.74
	in.	412x88x108
Machine Weight	t	32
	lbs.	70548
Hopper Capacity	kg	100
	lbs.	220
Oil Tank	l	790
	gal	209

***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 7000 Fixed & Moving Platens Drawing

Machine Model: MAV 7000
Machine Serial Number:
Machine Tonnage:

Sheet: 1 of 1

Drawn By: Harry

Date: 1/9/2024

Chkd By: LEON XIE

Date: 1/9/2024

Revision Date: Drawing #:

Rev #: 1

Rev #: 2

Rev #: 3

Rev #: 4

Rev #: 5

NOT TO SCALE

Size: 11 X 17 "B"

Units: mm / [in]

Material:

Part:

Part:

Part:

Part:

PLEASE READ:

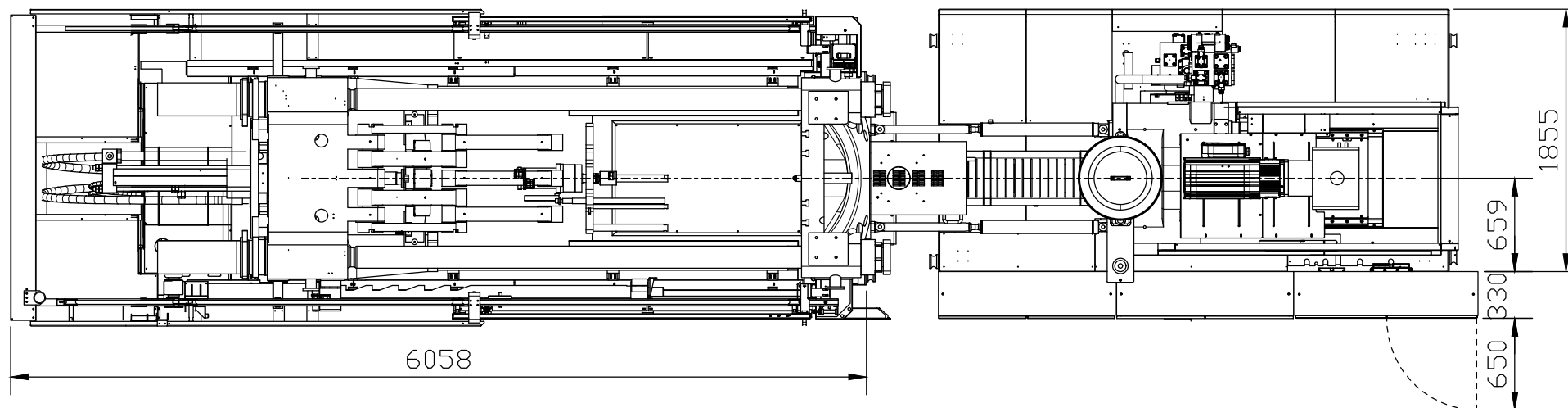
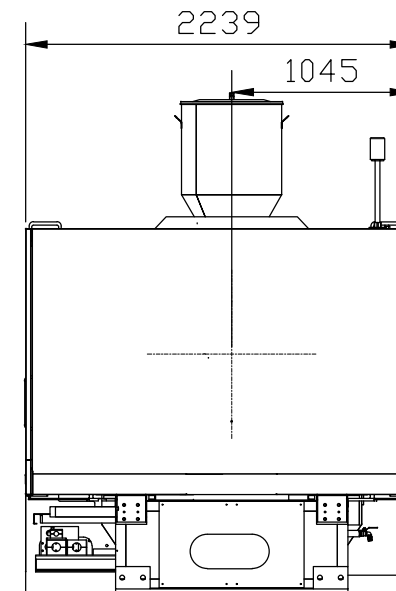
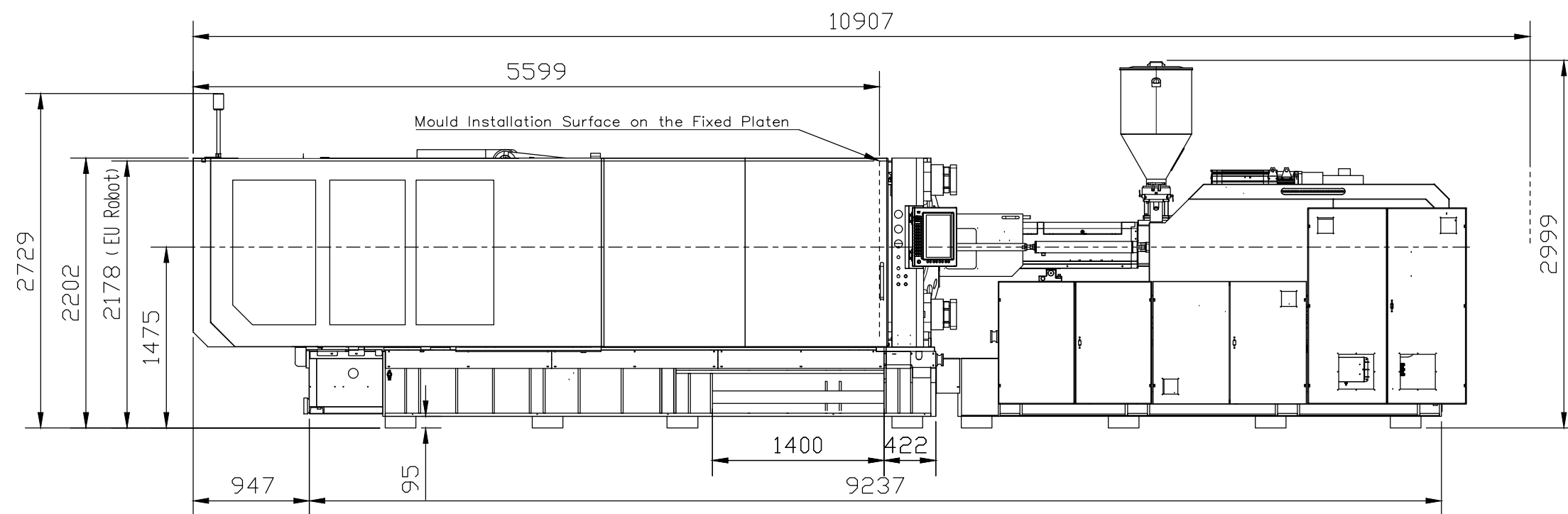
The designs on this drawing were validated using machine manufacturer's drawings and/or information supplied by Absolute or the customer. It is the responsibility of the customer to review and confirm that all dimensions are consistent with the application intended and in accordance with the facility 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
T: +1 508-792-4305
www.absolutehaitian.com

Title: MA V 7000 Layout Drawing

Machine Model: MA V 7000
Machine Serial Number:
Machine Tonnage:

Sheet: 1 of 1

Drawn By: Harry Date: 3/27/2024
Chkd By: LEON XIE Date: 3/27/2024

NOT TO SCALE Size: 11 X 17 "B"

Units: mm / [in]

Material:
Part:
Part:
Part:
Part:
Part:

PLEASE READ:

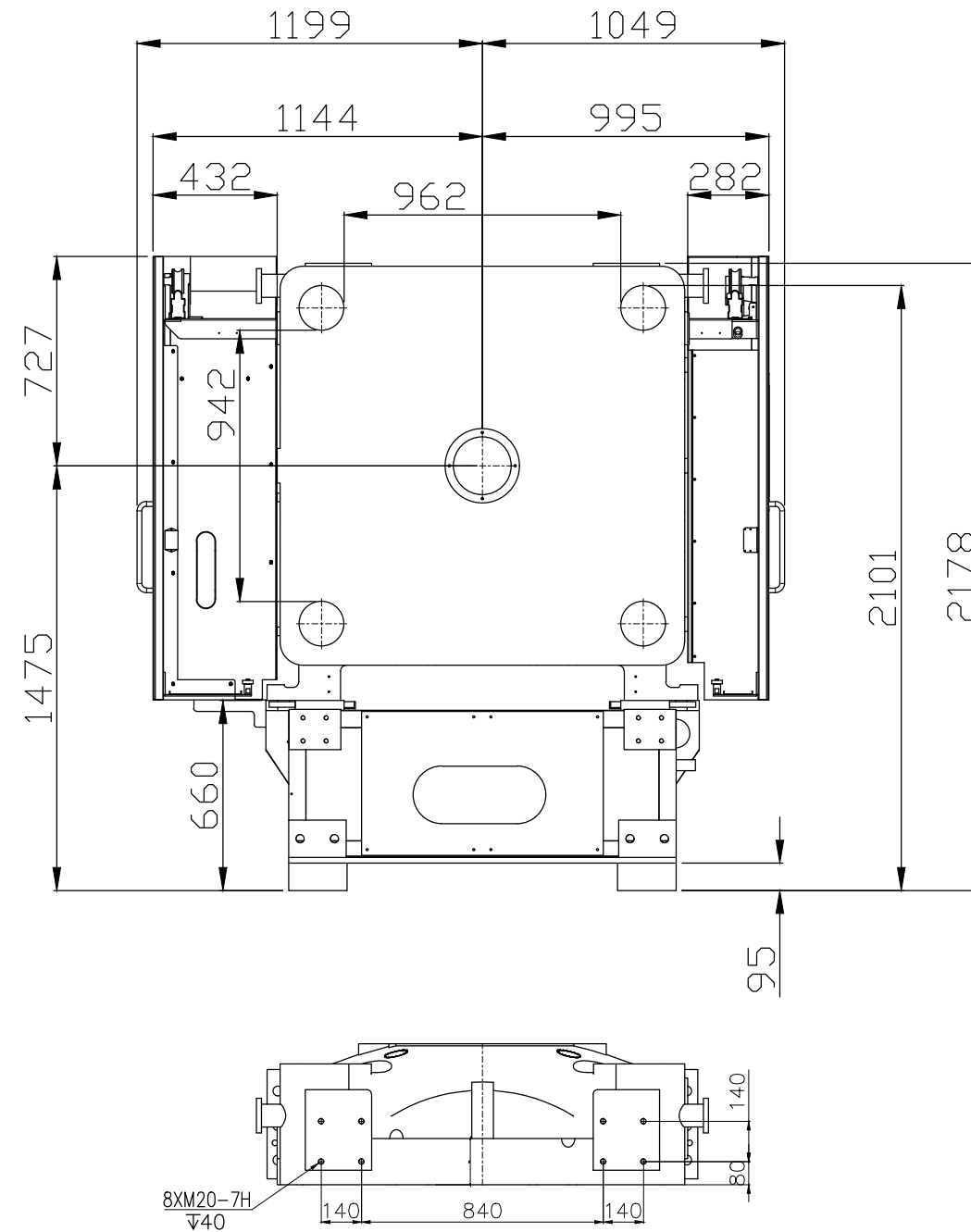
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Customer:

Customer Approval:

Authorized Signature

Notes:



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

Title: MA V 7000 Robot Mounting Drawing				
Machine Model: MA V 7000			Sheet: 1 of 1	
Machine Serial Number:			Drawn By: Harry	Date: 4/9/2024
Machine Tonnage:			Chkd By: LEON XIE	Date: 4/9/2024
Revision	Date:	Drawing #: Robot Mounting	NOT TO SCALE	Size: 11 X 17 "B"
Rev #: 1				Units: mm / [in]
Rev #: 2				Material:
Rev #: 3				Part:
Rev #: 4				Part:
Rev #: 5				Part:

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Customer:	Customer Approval: Authorized Signature

Notes:
