

General Information

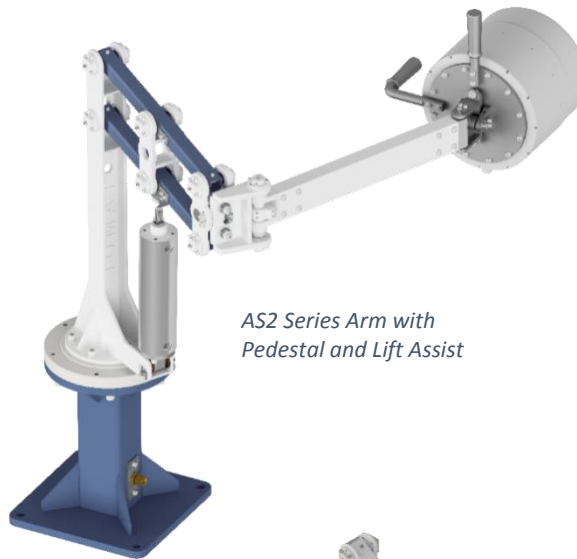
Jomat Industries' line of articulating arms integrates function and safety, designed to be both visually and economically appealing. Semi-modular designs with interchangeable parts improve delivery time as well as service and maintenance requirements. It also allows easy selection of arm parameters based on specific applications. Available options may be added to the basic arms to further enhance the desired function. The extensive reach and load capacity of each consecutive arm series provides a family of products that will accommodate almost any application.

Design Features *(some features may not apply to certain arm series)*

- Semi-modular design with interchangeable parts.
- Hardened & ground shafts.
- Grease fittings on all roller element bearings.
- External bearing cap assemblies.
- Dual axis leveling adjustment.
- Zero-gravity, up/down, and other controls options.
- Low friction pneumatic cylinder.
- Swivel air supply fitting on main pivot.
- 360° rotation at main & end of arm pivots.
- 165° rotation at middle pivot.
- Adjustable hard stops on middle pivot.
- Dual keepers on pivot shafts.



Custom Arm - 250 lb. Capacity with Pedestal and Lift Assist



AS2 Series Arm with Pedestal and Lift Assist



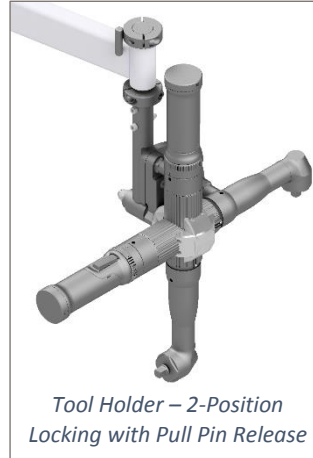
AT1 Tool Arm with Pedestal and Tool Holder



AT1 Series Articulating Arms

Max. Load		Max. Torque		Max. Travel		Max. Reach	
lb _f	kg	lb _f -ft	Nm	in	mm	in	m
25	11	75	100	36	914	72	1.8

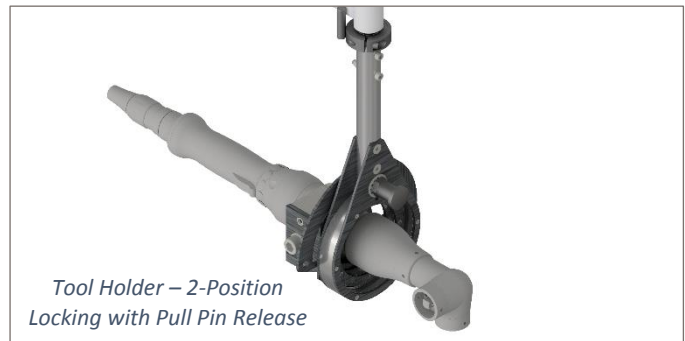
The AT1 Series articulating arms are designed for torque reaction applications. Encoder option kits are available for position sensing. Mounting options include overhead carriage, bench top, and floor pedestal.



*Tool Holder – 2-Position
Locking with Pull Pin Release*



Tool Holder – Fixed Position



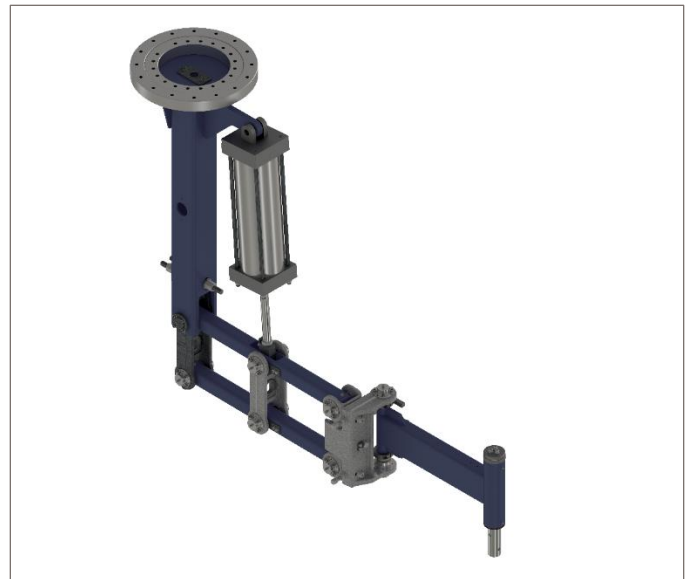
*Tool Holder – 2-Position
Locking with Pull Pin Release*



AS2 Series Articulating Arms

Max. Load		Max. Torque		Max. Travel		Max. Reach	
lb _f	kg	lb _f -ft	Nm	in	mm	in	m
50	22	150	200	32	812	72	1.8

The AS2 Series articulating arms are ideal for moving light loads and can be used in torque reaction applications. Mounting options include overhead carriage, bench top, and floor pedestal.



AS3 Series Articulating Arms

Max. Load		Max. Torque		Max. Travel		Max. Reach	
lb _f	kg	lb _f -ft	Nm	in	mm	in	m
150	68	550	750	56	1,422	96	2.4

The AS3 Series articulating arms are ideal for moving medium loads and can be used in higher torque reaction applications than the AS2 Series. Mounting options include overhead carriage, bench top, and floor pedestal.

Use the figures below to help determine the correct orientation code and encoder position code for creating a part number on page 2. First, select the arm assembly/orientation that fits the application. Second, select the encoder locations that are required. Encoder locations [A], [B1] and [C1] are recommended. Encoder locations [B2] and [C2] can be used if the application requires it.

FIGURE 1.1 | Upright/ Right Orientation - [UR]

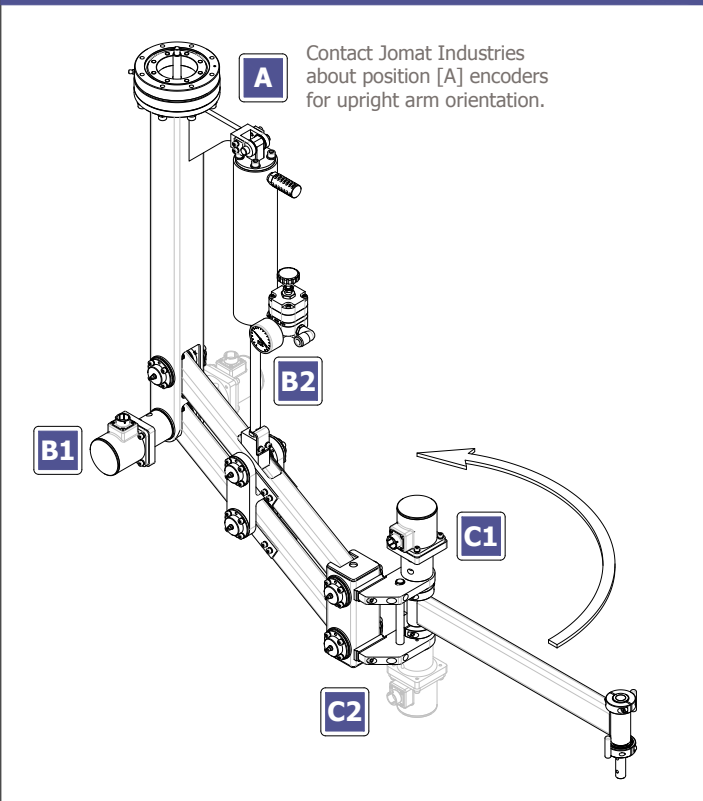


FIGURE 1.2 | Upright/ Left Orientation - [UL]

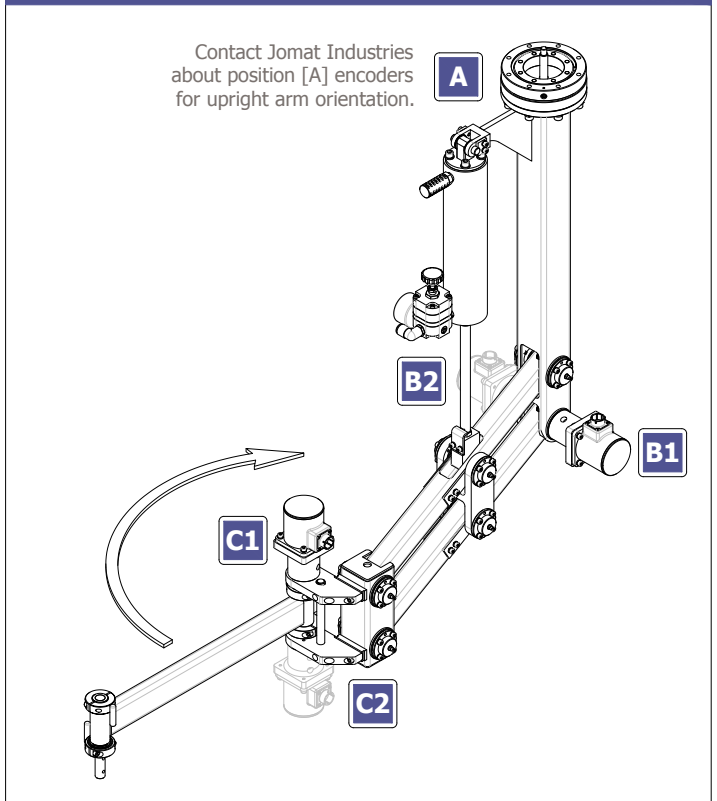


FIGURE 1.3 | Inverted/ Right Orientation - [IR]

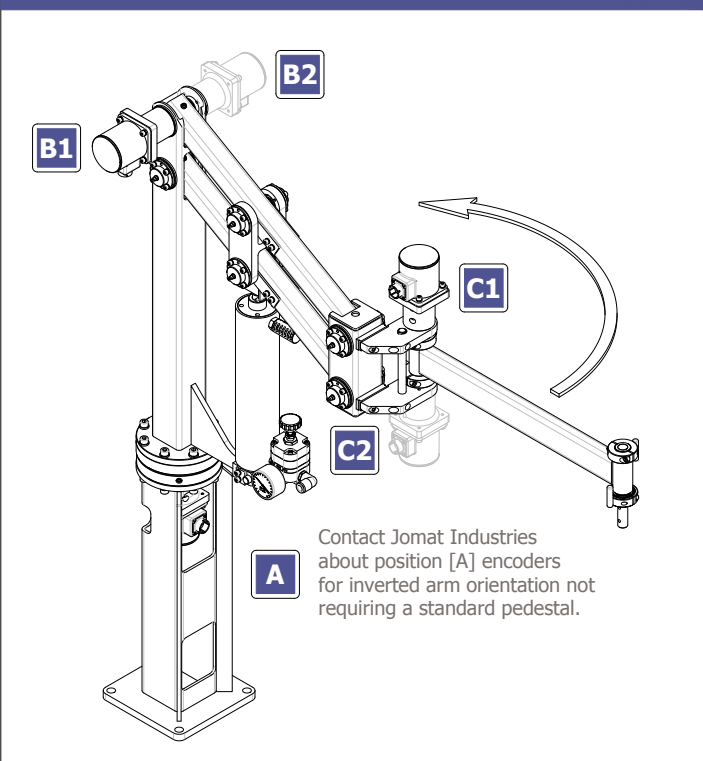
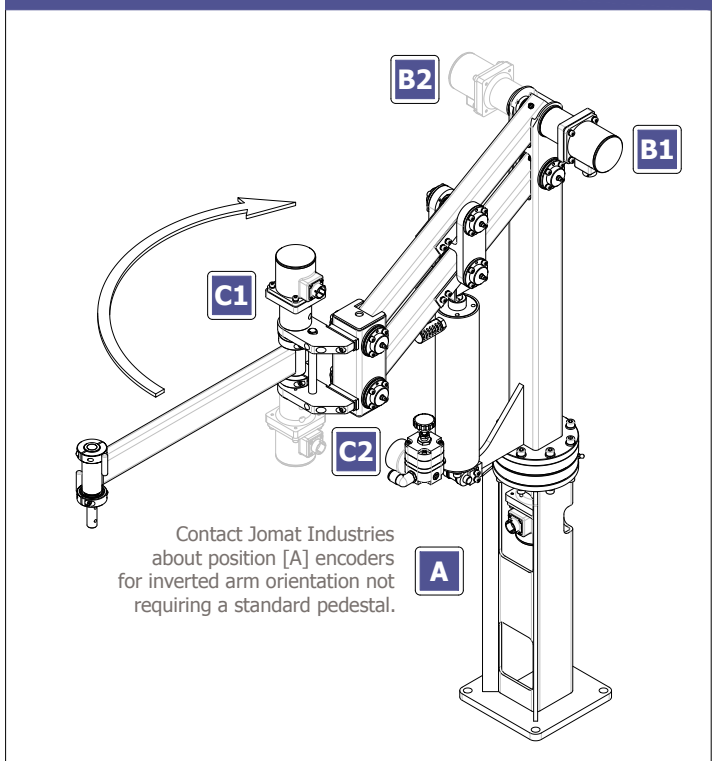
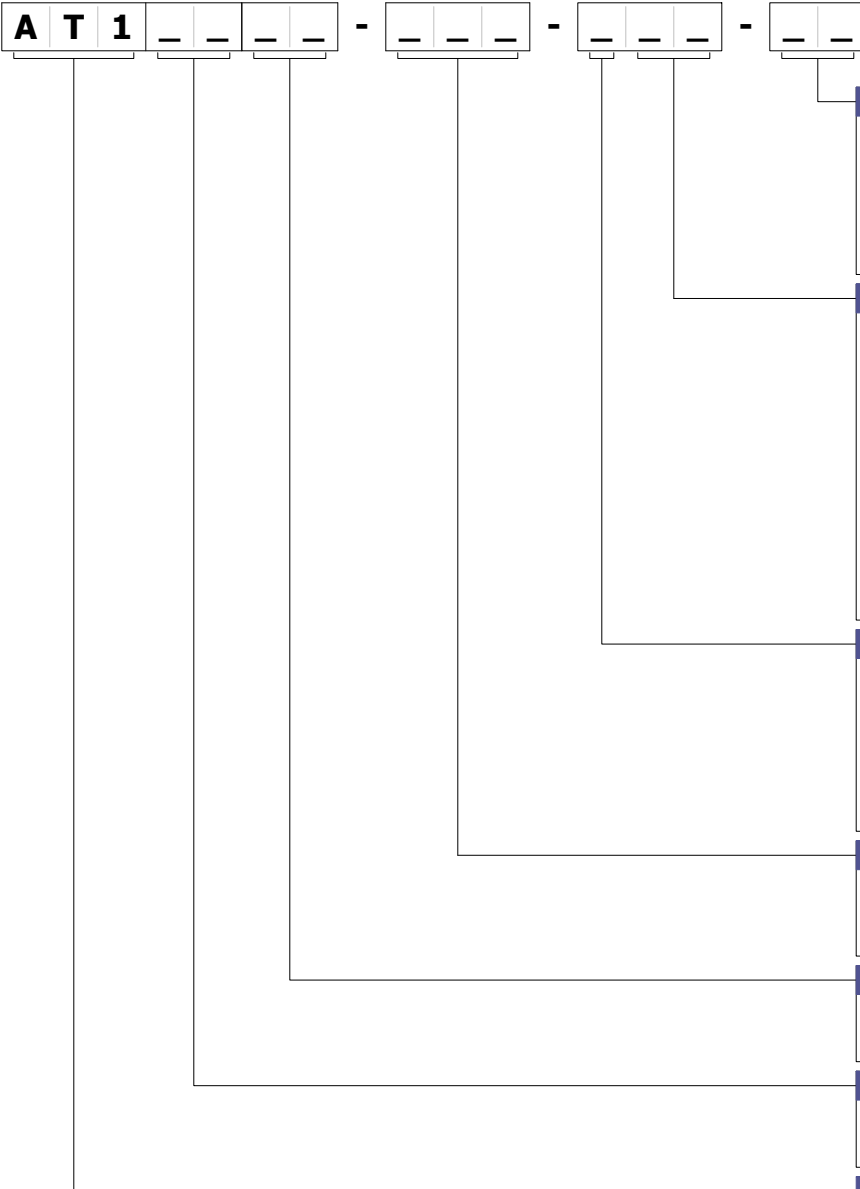


FIGURE 1.4 | Inverted/ Left Orientation - [IL]





ORIENTATION (see page 1)

- IR** - Inverted / Right Hand
- IL** - Inverted / Left Hand
- UR** - Upright / Right Hand
- UL** - Upright / Left Hand

NOTE: See figures on page 1 for help in identifying the correct orientation for the application.

ENCODERS (location, see page 1)

- | | |
|-------------------------|-------------------------------|
| 00 - No Encoders | 09 - [A] + [C2] |
| 01 - [A] | 10 - [B1] + [C1] |
| 02 - [B1] | 11 - [B1] + [C2] |
| 03 - [B2] | 12 - [B2] + [C1] |
| 04 - [C1] | 13 - [B2] + [C2] |
| 05 - [C2] | 14 - [A] + [B1] + [C1] |
| 06 - [A] + [B1] | 15 - [A] + [B1] + [C2] |
| 07 - [A] + [B2] | 16 - [A] + [B2] + [C1] |
| 08 - [A] + [C1] | 17 - [A] + [B2] + [C2] |

NOTE: See figures on page 1 for help in identifying the correct location of the encoders. Combinations 00, 01, 02, 04, 06, 08, 10 & 14 are recommended.

ENCODERS (manufacturer)

- 0** - No Encoders
- 1** - AMCI #DC25F-B1A8AS
- 2** - Allen-Bradley #842E-SIP1BA

NOTE: Customer will provide the required encoder(s) to Jomat Industries for assembly. Jomat Industries will provide the adapter, hardware, and alignment coupler.

BRAKES

- 000** - No brakes.

NOTE: Use code 000 for no brakes. If brakes are required please contact Jomat Industries.

BOOM LENGTH (inches, see Figure 2.1)

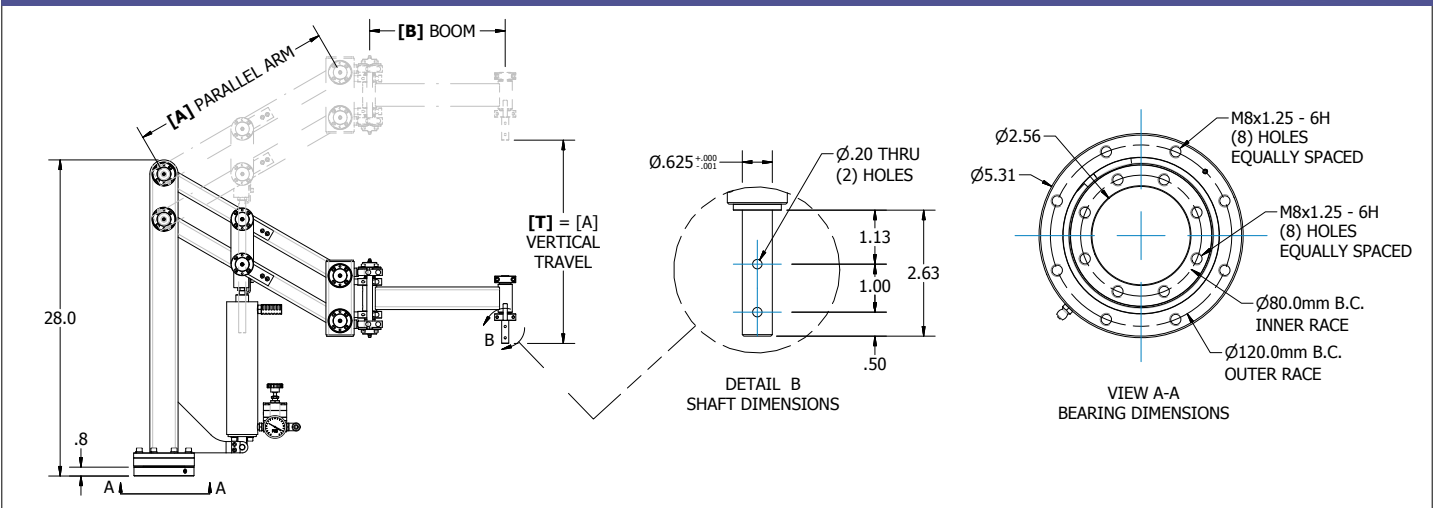
NOTE: Standard **18, 24, 30 & 36** inches long. The parallel arm length must be greater than or equal to the boom length.

PARALLEL ARM LENGTH (inches, see Figure 2.1)

NOTE: Standard **18, 24, 30 & 36** inches long. The parallel arm length must be greater than or equal to the boom length.

AT1 SERIES - PRODUCTS

FIGURE 2.1 | Arm Dimensions



A
T
1
1
0
 -
 A
_
_
 -
 _
_
.
_
_

OVERALL HEIGHT

Specify required pedestal height [**H**] in inches.

ENCODER REQUIREMENTS

- A01** - Encoder is not required.
- A02** - AMCI encoder kit required.
- A03** - Allen-Bradley encoder required.

NOTE: Customer will provide the required **AMCI #DC25F-B1A8AS** or **Allen-Bradley #842E-SIP1BA** encoder(s) to Jomat Industries for assembly. Jomat Industries will provide the adapter, hardware, and alignment coupler.

PEDESTAL CODE

AT1 SERIES - PRODUCTS

FIGURE 3.1 | Pedestal Assembly - [A01]

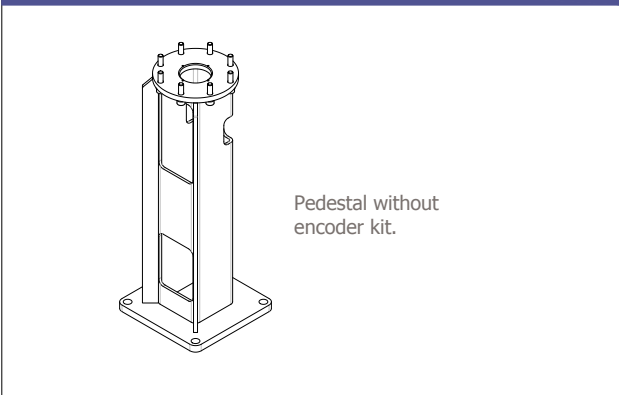


FIGURE 3.2 | Pedestal Assembly - [A02]

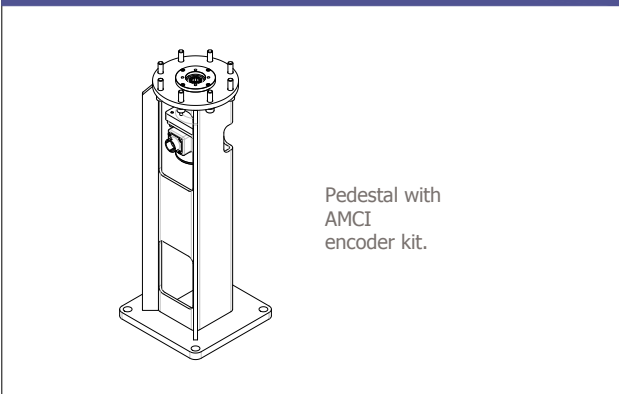


FIGURE 3.3 | Pedestal Assembly - [A03]

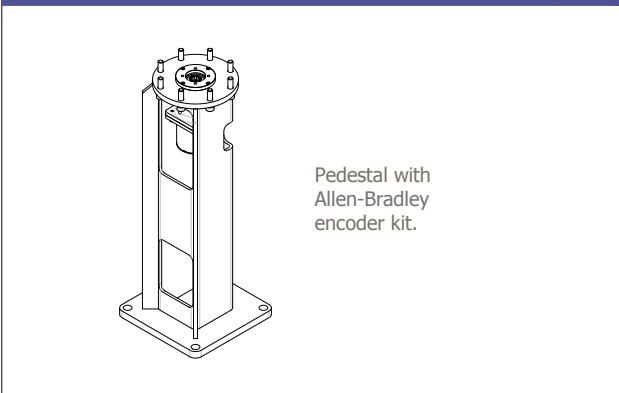
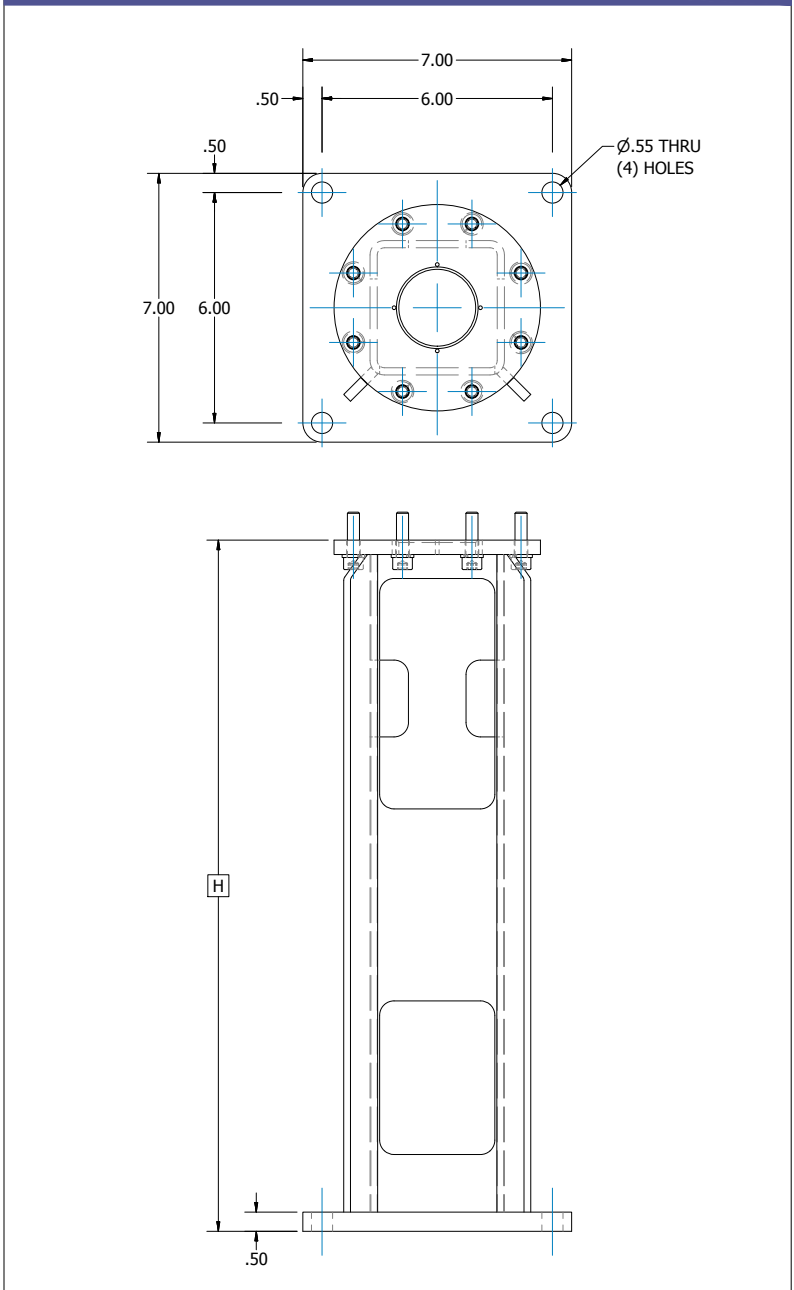


FIGURE 3.4 | Pedestal Dimensions





JOB SPECIFIC REQUIREMENTS

STA./OP. #:

STA./OP. DESCRIPTION:

CUSTOMER JOB #:

END USER:

PAINT REQUIREMENTS:

OTHER NOTES: