



**AVL LOOMS**

AVL Looms, Incorporated

2360 Park Avenue, Chico, California 95928-8305

Phone: 530-893-4915 Fax: 530-893-1372 www.avlusa.com

## **Powered Wall-Mounted Beam Winder for the Warp Beam**

AVL manufactures four types of beam winders: standard and powered, wall-mounted and free standing. This instructions covers the Powered Wall-Mounted Beam Winder.

AVL beam winders for warp beams are great productivity enhancing equipment that allow the weaver to wind the warp beam off the loom. This allows you to continue weaving with an alternate warp beam while your next warp is being prepared. Swapping the beams keeps your loom downtime to a minimum. The Powered Wall-Mounted Beam Winder is particularly productive as it turns it into a one-person job. The Powered Wall-Mounted Beam Winder also improves ergonomics of the workplace by helping to reduce repetitive motion associated with the beam winding process.

The Powered Wall-Mounted Beam Winder is made to match your warp beam.

NOTE: The winder includes arms for mounting a Track. However, it does not include the Track itself, warping equipment, nor a warp beam. Please contact AVL to purchase these items.



*Powered Wall-Mounted Beam Winder*



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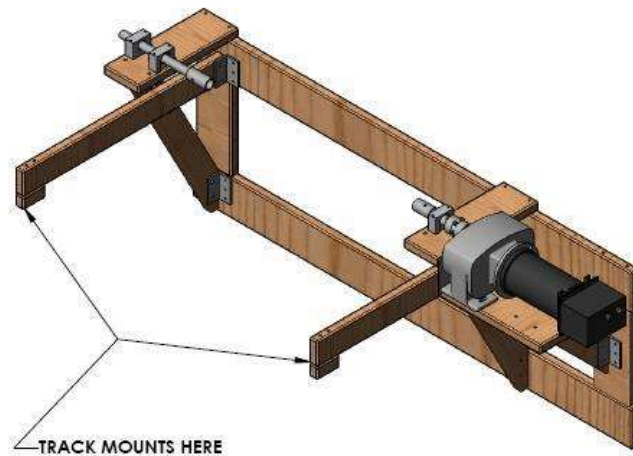
## Package Contents

- 1 – Horizontal Top
- 1 – Horizontal Bottom
- 1 – Left End Vertical
- 1 – Right End Vertical
- 1 – Left Bearing Support Assembly (includes free floating axle-coupler)
- 1 – Right Bearing Support Assembly
- 1 – Motor Mount Support Assembly (includes motor)
- 1 – Tail End Track Arm Support
- 1 – Motor Mount Support Brace
- 1 – Drive End Track Arm Support

- 2 – Track Arm
- 2 – Track Spacer
- 1 – Hardware Pack
- 1 – Foot Pedal and Cord

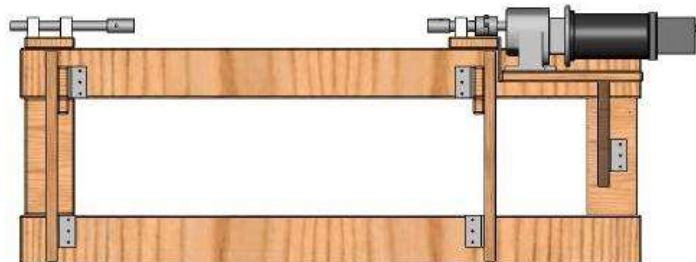
## Tools Required

- 2 - Adjustable Wrenches
- Drill Motor
- ¼ inch Drill Bit
- Electronic Stud Finder (suggested)



### NOTES:

1. LEAVE ALL HARDWARE LOOSE DURING INITIAL ASSEMBLY
2. BOLT TO WALL WITH LAG BOLTS WHERE YOU FIND HARD POINTS



*Powered Wall-Mounted Beam Winder*

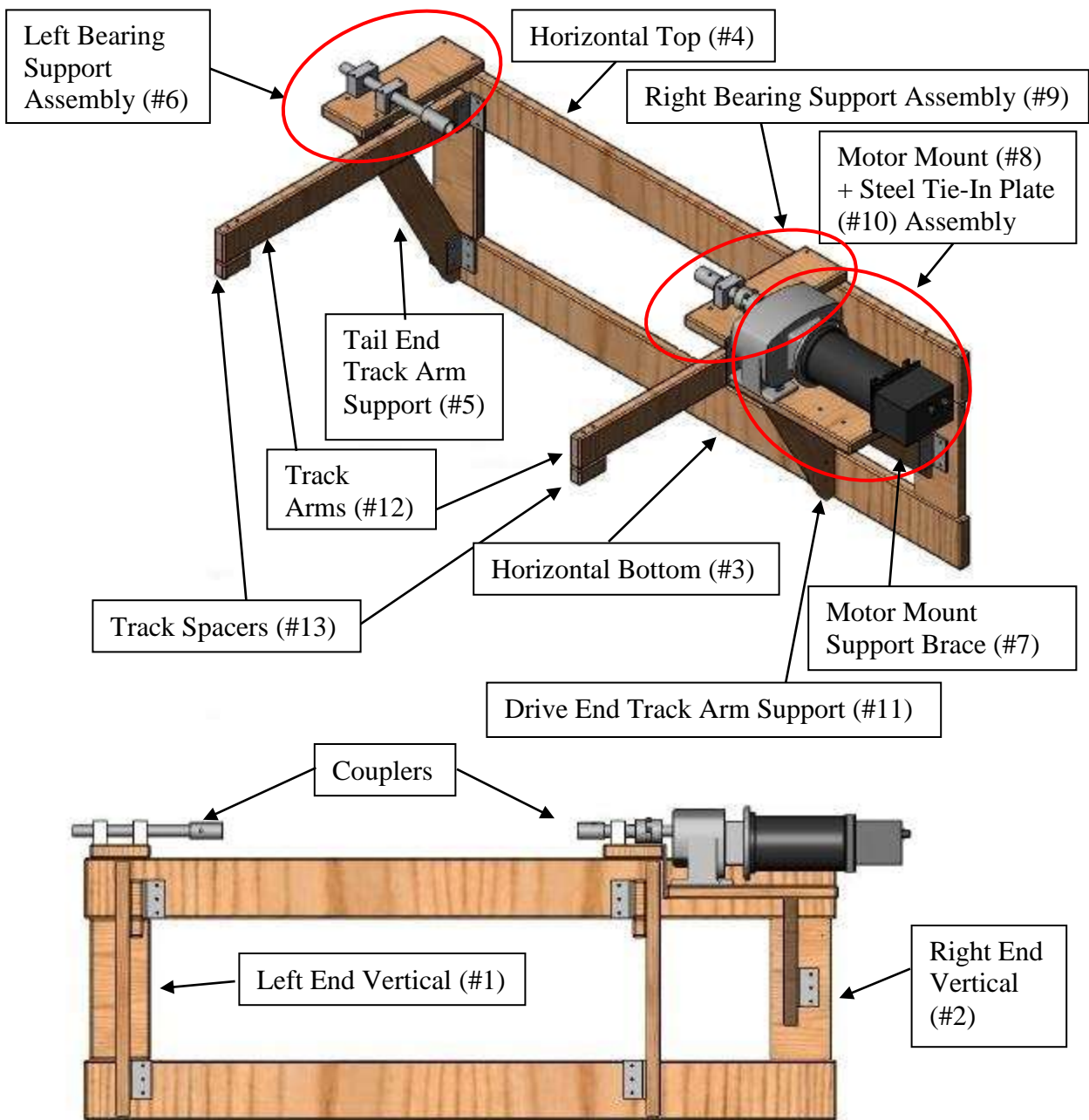


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*Winder Parts*

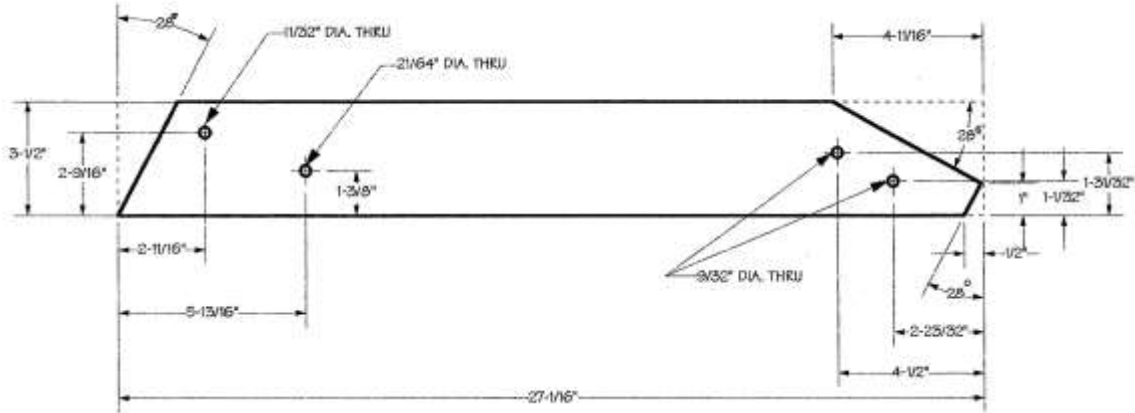


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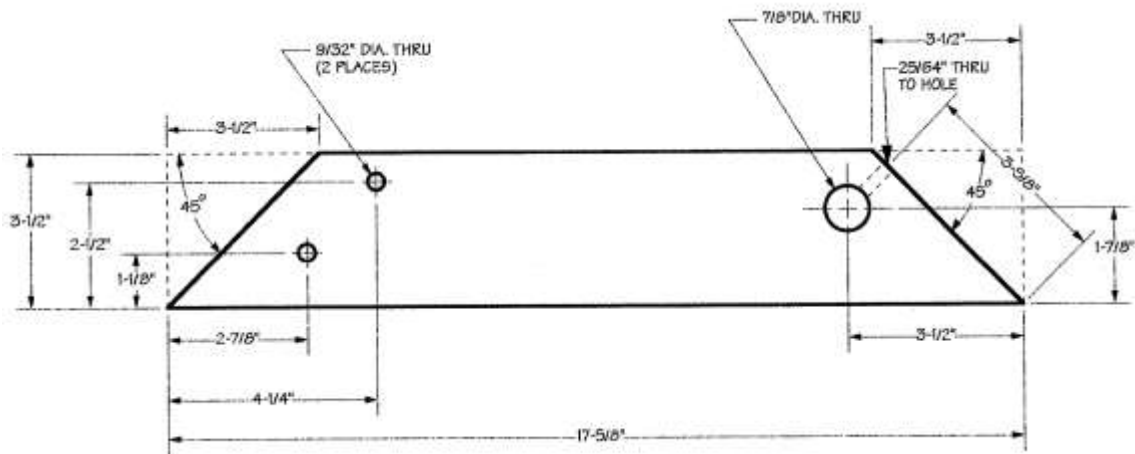
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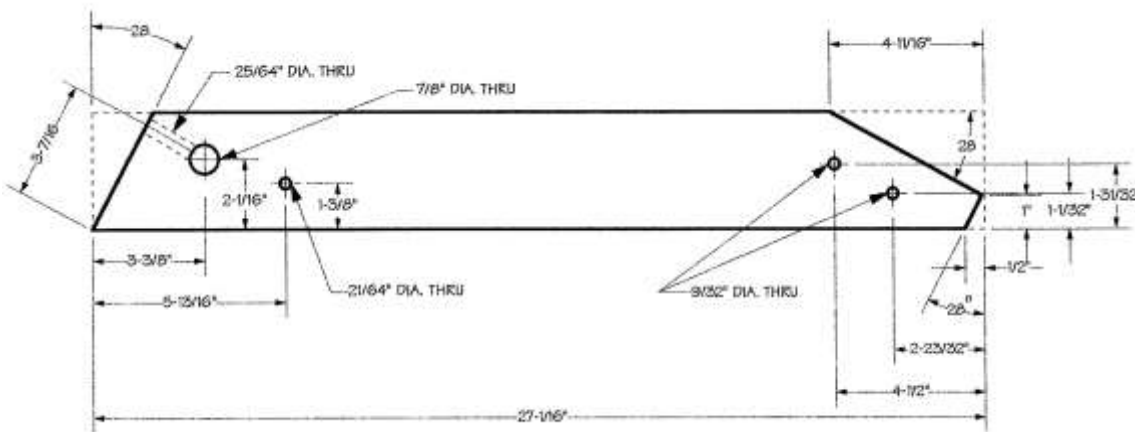
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*Tail End Track Arm Support (#5)*



*Motor Mount Support Brace (#7)*



*Drive End Track Arm Support (#11)*



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### Assembly

Assembly of the Powered Wall-Mounted Beam Winder should be done on a bench. Two people are required. Note: leave all hardware loose during initial assembly, then tighten when assembly is completed.

- 1) Remove all parts from the packaging box. Match the contents to the list above. If anything is missing, please contact AVL for replacement.
- 2) Attach the Left End Vertical (#1) and Right End Vertical (#2) (with bracket) to the Horizontal Bottom (#3) using 5/16-18 x 8 Hex Bolts, flat washers, and square nuts. Attach the Horizontal Top (#4) to the Right End Vertical (#2) using 5/16-18 x 8in hex bolts, flat washers, and square nuts.
- 3) Attach the Tail End Track Arm Support (#5) to the Left Bearing Support Assembly (#6) using a 3/8-16 x 2 1/2in hex bolt, flat washer and square nut. Attach the Left Bearing Support Assembly (#6) to the Horizontal Top (#4) using 5/16-18 x 9 all-thread, flat washers and square nuts. Attach the Tail End Track Arm Support (#5) to the metal bracket on the Horizontal Bottom (#3) using 1/4-20 x 2in hex bolts, flat washers, lock washers and hex nuts.
- 4) Attach the Motor Mount Support Brace (#7) to the Motor Mount (#8) + Steel Tie-In Plate (#10) Assembly using a 3/8-16 x 2 1/2in hex bolt, flat washer, and square nut. Attach the Right Bearing Support Assembly (#9) to the Motor Mount (#8) + Steel Tie-In Plate (#10) Assembly at the steel tie-in plate using 5/16-18 x 2 1/4in hex bolts, flat washers, and square nuts. Attach the Drive End Track Arm Support (#11) to the Motor Mount (#8) + Steel Tie-In Plate (#10) Assembly using 5/16-18 x 1 1/2in hex bolt, flat washer into the threaded hole in the steel tie-in plate.
- 5) Attach the Right Bearing Support Assembly (#9) to the Horizontal Top (#4) using 5/16-18 x 7 1/2in hex bolts, flat washers, and hex nuts. Attach the Drive End Track Arm Support (#11) to the metal bracket on the Horizontal Bottom (#3) and the Motor Mount Support Brace (#7) to the metal bracket Right End Vertical (#2) using 1/4-20 x 2in hex bolts, flat washers, lock washers, and hex nuts.
- 6) Attach the Track Arms (#12) to the metal brackets in the Horizontal Top (#4) using 1/4-20 x 2in hex bolts, flat washers, lock washers and hex nuts. Attach the Track Arms (#12) to the Tail End Track Arm Support (#5) and Drive End Track Arm Support (#11) using 5/16-18 x 3in hex bolts, flat washers, lock washers and hex nuts.
- 7) Attach the Track (not included in this kit) to the Track Arms (#12) with the Track Spacers (#13) in between using 5/16-18 x 7in hex bolts, flat washers, lock washers, and hex nuts.
- 8) Tighten all hardware.

### Wall Mounting

The assembled Powered Wall-Mounted Beam Winder weighs approximately 150 lbs. (75 kg) and will require three people for mounting it to the wall. Wall mounting requires drilling 2-3 holes each through the Top Horizontal and Bottom Horizontal into wall studs or other suitably strong structure. Lag bolts are provided for assembly into the wood wall studs. For





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brick and other wall surfaces, consult with your local hardware store for appropriate mounting hardware.

- 1) Using an electronic stud finder or other suitable method identify the location of the wall studs in your desired mounting location. For reference,
  - In choosing a height for your winder, pay special consideration to lifting out of the fully loaded warp beam. Avoid placing the winder too high, making too difficult to remove the beam from the winder, yet also avoid placing it too low causing too much bending when moving the warp beam.
  - At minimum, place a hole in each of the four (4) corners of the frame assembly.
  - The holes you will be drilling in the Top Horizontal and Bottom Horizontal will be vertically spaced approximately 18 ½ in. (47 cm) apart.
- 2) With the two helpers holding the winder, match its position to your stud marks. Drill two (2) or three (3) ¼ inch holes through the Horizontal Bottom into the wall studs. Using lag bolts and flat washers or other hardware, secure to the wall.
- 3) Drill two (2) or three (3) ¼ inch holes through the Horizontal Top into the wall studs. Using lag bolts and flat washers or other hardware, secure to the wall.

### Use

- 1) The axle-coupler mounted in the left side of the Powered Wall-Mounted Beam Winder is floating for warp beam setup. Pull the pins and or bolts in the left and right couplers. Push the left-hand axle-coupler as far left as it will go.
- 2) Slip your warp beam into the right-hand coupler on the motor, slide the left-hand coupler over the other end of the warp beam axle, and then secure both sides with the pins/bolts. When installing the warp beam into the Powered Wall-Mounted Beam Winder be sure to orient it just as it sits on the loom, i.e., with the brake drum to the same side as it sits on the loom.
- 3) Power on the beam winder motor.
- 4) Wind on your warp using the foot pedal to activate the motor.