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Installation Procedure

1. <u>Determine the position of the handling arm.</u>

The handling arm can be positioned anywhere within an 11 feet radius from the center of the material sheet in position on the machine table.

Things to consider when determining the position :

- Material bundle positions
- Passage ways
- Ceiling clearances
 - Ducts
 - Pipes
 - Ventilation units
- Posts
- Acces way to the machine
- Fork lift access
- 2. <u>Mark the position of the 3 anchor holes using the aluminum</u> <u>template.</u> (Avoid floor cracks)
- 3. Drill the 3 holes (24 mm or 15/16 inches dia. x 4 inches deep)
- 4. Use an air gun to remove all particles and dust from inside the holes. Then, use a round wire brush to thoroughly clean the holes.
- 5. Set the anchors.

Place a nut 2" below the top of the anchor and the other one at $\frac{1}{4}$ " below the top of the anchor.





- b) Prepare the epoxy gun
 - Remove cap
 - Add nozzle

- c) Make sure the aluminum template is close to your work area
- d) Fill the 3 holes with epoxy to 2/3rd of their height

IMPORTANT: To ensure homogeneous mixture, the first few squirts should be discarded.

 e) Press the anchors in the holes rotating them counter clockwise until the pin is set at the bottom of the hole and the epoxy overflows. If it doesn't overflow, remove the anchor and add more epoxy.



f) When the 3 anchors are in the holes, set their position using the aluminum template by resting it on top of the nuts.





g) Curing time : 45 minutes (or as indicated on epoxy container)

CAUTION : Do not move the anchors while the epoxy is curing.

6. Prepare the post.

- a) Be sure you have enough space around the post.
- b) Put the base of the post down on a 4" X 4"wood beam.



 C) Use the special key to unscrew the nut and remove the wooden support.
<u>IMPORTANT</u>: Leave the eye bolt in position



d) Screw the wire on top of the piston and tighten until the piston turns on itself.





e) Run a 1" sling through the eye bolt on top so that the ends can be attached to the fork of a forklift.

WARNING: Ensure that the wire is entirely untwisted and streched away.





CAUTION:

Use a clamp at the end of the fork to prevent the sling from sliding off the end while lifting.

 f) Lift the post slowly allowing the piston to slide down smoothly towards the bottom of the tube. (Part of the wire will enter into the tube)

REMEMBER: The wire MUST be untwisted and streched away. Otherwise it may get damaged







- g) Continue lifting the post until it is set on the anchor bolts, orienting the serial number towards the side of operation.
- h) Remove the 3 rods from the post base.





- i) Level the post, raising or lowering the anchor nuts as required.
- j) There must be at least ¼ inches of clearance between the valve and the floor.
- k) Once the post is levelled, tighten the 3 top anchor nuts.
- I) Remove the eye bolt on the top

Install the horizontal beam

a) Hold the beam horizontally with a fork lift.



b) Thread the wire through the pivot bushing, around the pulley and down between the diagonal braces.





- c) Lift the horizontal beam 2 inches above the top of the post and pull the slack from the wire.
- d) Position and lower the pivot bushing onto the bearing at the top of the post.



e) Secure the lock screw on the vertical brace at the top of the post leaving 1/32" of clearing between the diameter and the screw.



g) Plug air hoses on the top of post.





h) Thread the wire through the pulley buggy and pulley block.



i) Insert the buggy in the horizontal beam.



Make sure that the pulley block is supported.

- j) Tighten the cap at the end of the horizontal beam.
- k) Adjust the wire length so that the pulley block is between the diagonal braces at their lowest point.



I) Tighten the wire lock screw.



m) Hang the succion cup on the pulley block.

9. <u>Air supply:</u> Note; The handling arm requires a ½" to 3/4" pipe air line at 90 PSI (Minimum)

- a) Plug the 16mm tube between the regulator and the fitting under the post base.
- b) Connect the 6mm black tube under the post base.
- c) Connect the 8mm black tube on the connector on top of the filter.



d) Connect the two yellow tubes on the succion cup's handle.



10. Adjustments :

- **Downward speed:** You can adjust downward speed by changing the outlet pressure on the regulator located near the post footing. The lower is the pressure, the slower it gets.
 - **Upward speed:** You can adjust Upward speed by restricting the stroke of the Control button, using the set screw passing through it as a stop.
 - **Still position:** If the device tends to move up or down by itself, turn the adjustment button both ways untill you obtain the device to stay still. If the still position is difficult to obtain, it's better to be always moving upward, so it will simply return to its rest position.



YOU ARE NOW READY TO USE YOUR HANDLING ARM.

CAUTION

When not in use, the holding device must be positioned at the highest level. The wire must always be tight. If loose, the wire will get stuck in the pulleys and damage itself





Wire Replacment Procedure

1. <u>REPLACING THE OLD WIRE</u>

- a) Unhook the suction device. Do not disconnect the air.
- b) Cut the wire from the end of the beam. Secure the pulley block



- c) Pull out the wire clamp from the end of the beam and cut the wire between the cap and the clamp. Pull the wire from the pulleys and let it hang down the post.
- d) Back up the safety set screw in the beam at the top of the post.
- e) Unclamp the hose from the post.



f) With the "fork lift", lift the beam approximatly 6 inches from the top of the post.

You may need to pry the beam up from the bearing

Make sure that the safety set screw is well back up.



g) Move the beam sideways or lower it to the ground. (optionnal)

Make sure the wire does not tangle.

i) If require, put the beam down and change the pulley bloc.

Unscrew the 3 bolts.



2. <u>REPLACING THE NEW WIRE</u>

a) With the control handle on the suction device, raise the piston to the top of the post.

Pull on the wire as the piston moves up

- b) When the piston reaches the top, hold the button on the control handle for a few seconds to ensure the piston is firmly against the top.
- c) With the special key, untighten the old wire.
- d) Secure the new wire onto the piston.

If the piston turns, simply apply more pressure to the piston using the control handle.





e) Remove the key and the wire from it.Let the wire hang loose beside the post.

g) Using the control handle, lower the piston *slowly* to the bottom.

** Make sure the wire is not tangled !!!

YOU ARE NOW READY TO INSTALL THE BEAM

3. INSTALLATION OF THE BEAM

a) Hold the beam horizontally at 4 feet off the floor and the pivot end 1 foot from the post.



b) Thread the wire through the pivot bushing, around the pulley and down between the diagonal braces





- c) Lift the horizontal beam 2" above the top of the post pulling the slack from the wire.
- d) Position and lower the pivot bushing onto the bearing in the top of the post.







f) Secure the lock screw on the vertical brace at the top of post leaving 132" of clearing between the diameter and the screw.



g) Thread the wire through the pulley buggy and pulley block.



h) Insert the buggy in the horizontal beam.



Make sure that the pulley bloc is supported.

- i) Tighten the cap at the end of the horizontal beam.
- j) Adjust the wire lenght by pulling it through the wire lock so that the pulley block is between the diagonal braces at their lowest point.



k) Tighten the wire lock screw.



I) Hang the succion cup on the pulley block.

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