

Setup for Intercoat Machine.

Setting up for initial use.

After unpacking the machine and placement on a suitable surface the following steps must be taken to ensure proper operation of the unit.

1. Leveling the machine.

The unit has four adjustable feet. Place a small spirit level on the base of the machine, and adjust the feet to level the machine on both the X and Y axis.

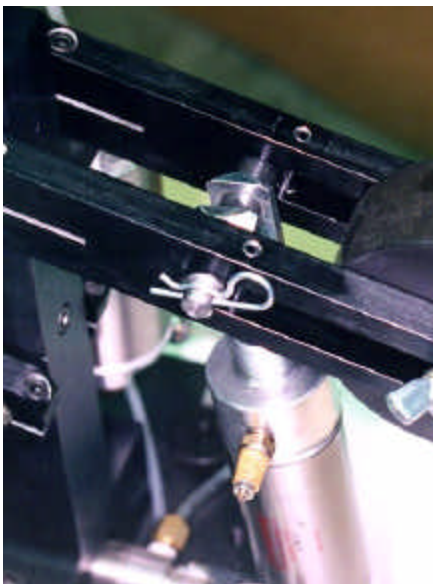
2. Connect the air supply.



A clean dry source of air is required to operate the machine.

Connect the air supply to the inlet connector and adjust the front panel regulator to 80 PSI.

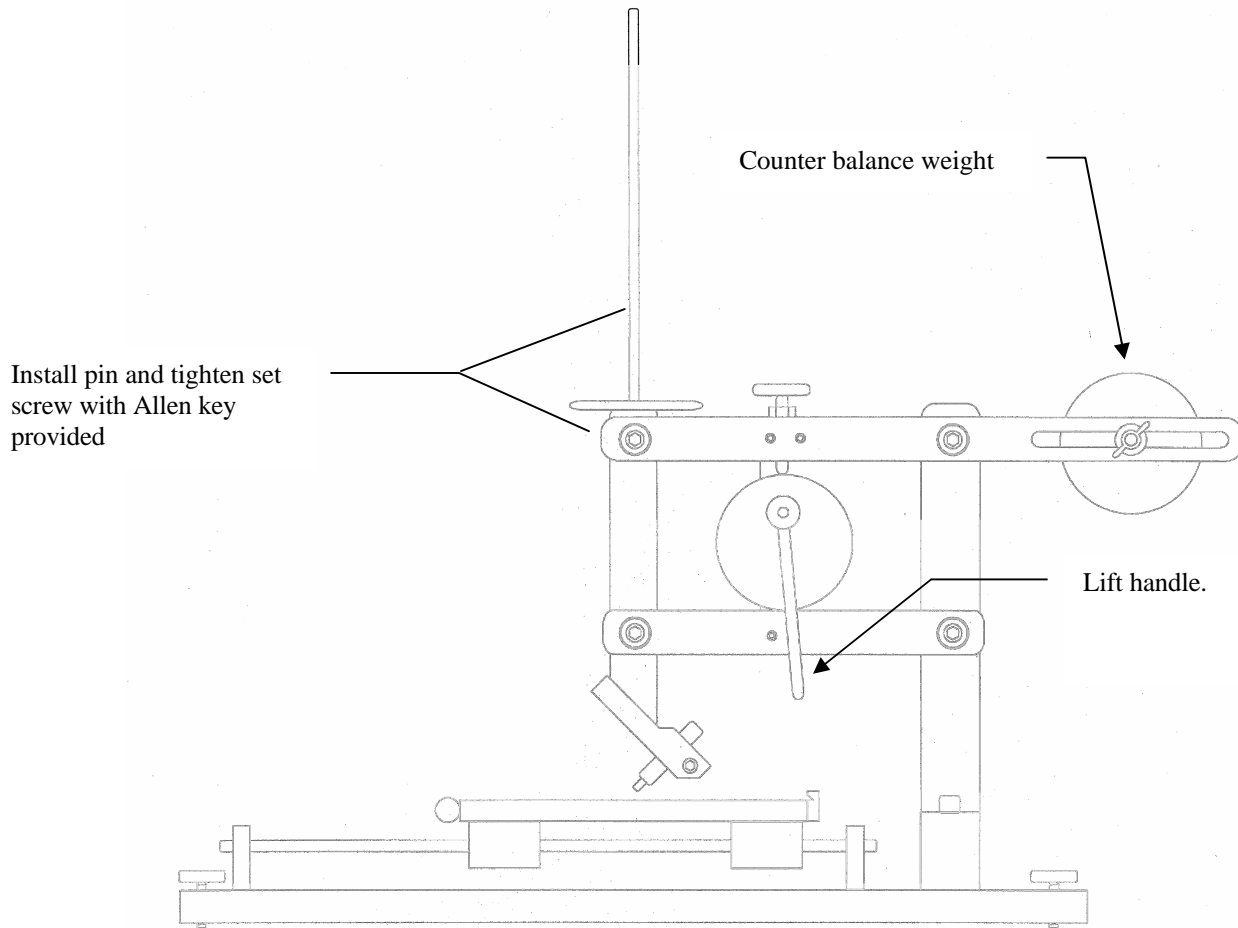
3. If the unit is equipped with the optional hardness testing attachment. Remove the clevis pin from the air cylinder before performing the next step.



Remove the spring pin from the pin and pull the pin out. Allow the cylinder to rest up against the main vertical member of the support frame.

4. Adjusting the balance of the unit.

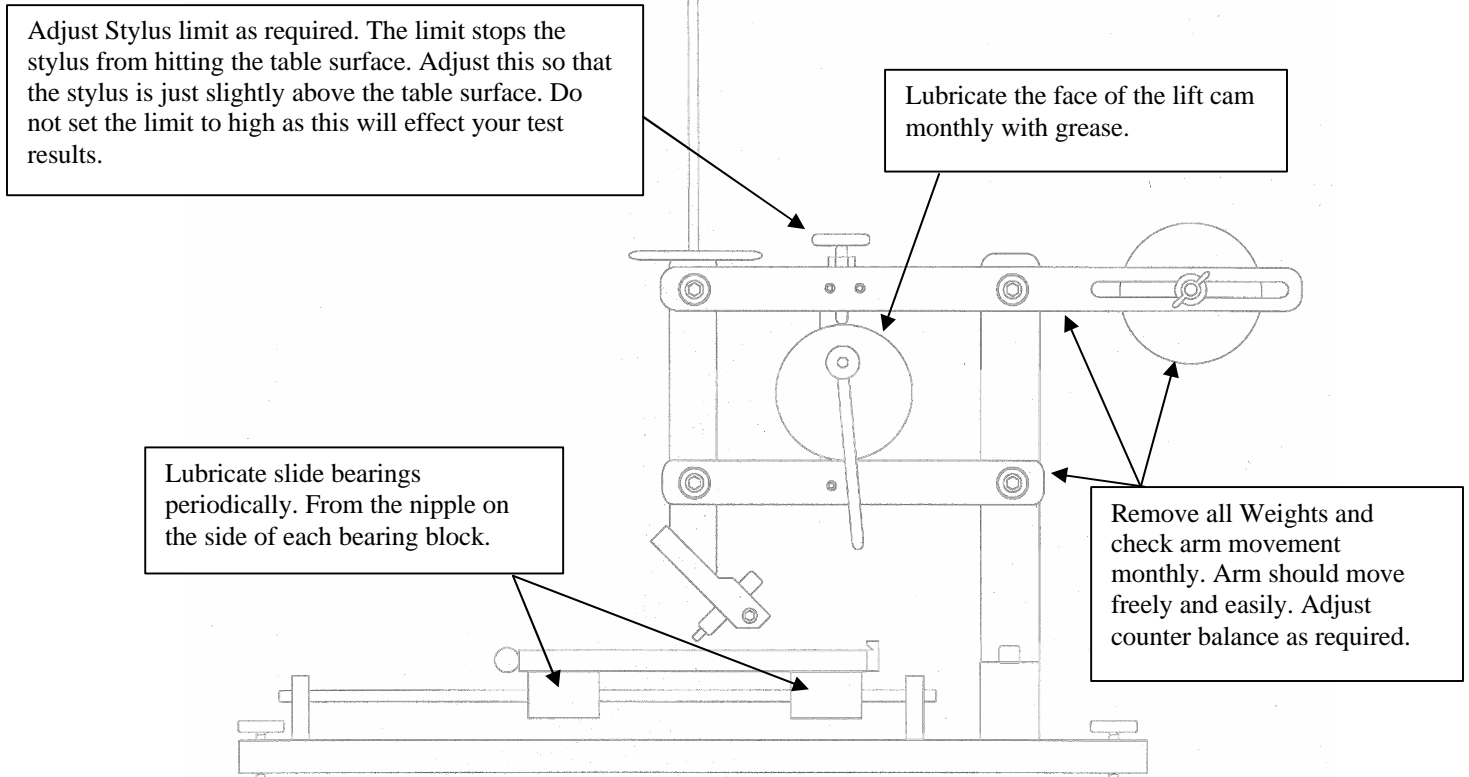
If This unit was shipped with the add on for pencil testing. It must be removed and the scrape test tip installed in order to balance the unit. Balancing the unit must be performed in order to obtain a neutral position for the unit prior to adding weights for Intercoat testing. This should only require setting up once on initial setup and after replacement of the tip with a new one or after having your tip reground.



With the machine configured as shown above, no weights on the pad, and the scrape tip installed. Lower the cam lever to the down position and check for balance. If the unit does not balance as shown (the arms should be parallel to the base), you must adjust the counter balance weight. Loosen the wing nut and slide the weight forward or back as required to balance the unit.

Once this is complete you can add weight as required for your testing.

Maintenance



The stylus should be rotated regularly to new position to ensure consistent results; the frequency that the tip is rotated will depend on usage and the type of materials you are testing. You will need to establish a schedule of rotation. One method to do this is to establish a master panel once you have determined the weight required for testing this panel. Run a test periodically to see when the weight required for the test begins to change. An increase in weight be added indicates the tip has worn. A decrease in weight indicates possible tip damage.

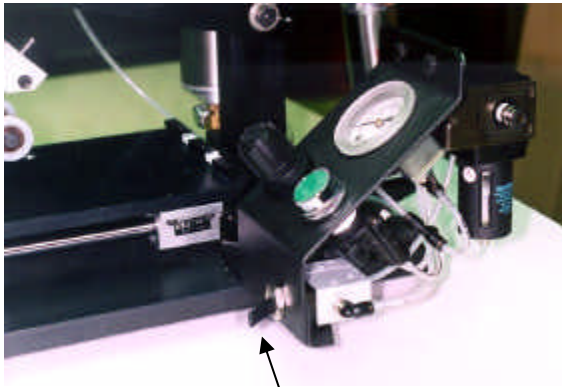
Calibration; The unit is calibrated to a specific time distance measurement. This operation must be performed at DJH Designs Factory as it requires some specialized equipment. You can however perform quick test to determine if the draw speed is ok. The correct draw speed is 1 second per inch, place a ruler on the machine base. Line up a division with the handle on the table run the test and use a stop watch to time the travel over a 2 to 3 inch length. If the travel time is Ok then no further calibration is required.

Optional Hardness Tester

Installation of the optional fixture for hardness testing;

Raise the cam to its top position. Remove the scrape test tip and store in a safe place. Use care not to damage the tip radius as this will effect your test results. Insert the hardness test fixture but do not tighten it into the machine at this point. Place a scrap panel on the fixture and lower the cart down onto the surface. With one hand on the cart and the other controlling the cam lever slowly increase pressure on the cart while rotating it lightly from one side to the other. You should feel the unit sit squarely onto the panel. Lock the cart into the fixture with the Allen screw. Connect the air cylinder to the clevis pin and replace the spring clip into the pin.

Performing a hardness test.



Air cylinder actuation switch.

Lower the fixture onto the panel to test. Flip the Cylinder actuation switch to engage the air cylinder. Depress the green button to draw the table. Once the table completes its draw, release the green button; flip the switch to release the air cylinder. Rotate the cam lever up to lift the cart off the panel. Pull the table back to the home position and remove the panel.