

BENCHMARK 250

QUICK INSTALLATION GUIDE

This describes how to unpack, install, and set up the Benchmark 250 system. It is a quick overview. It does NOT replace the Benchmark 250 Installation Manual (P/N 799030).



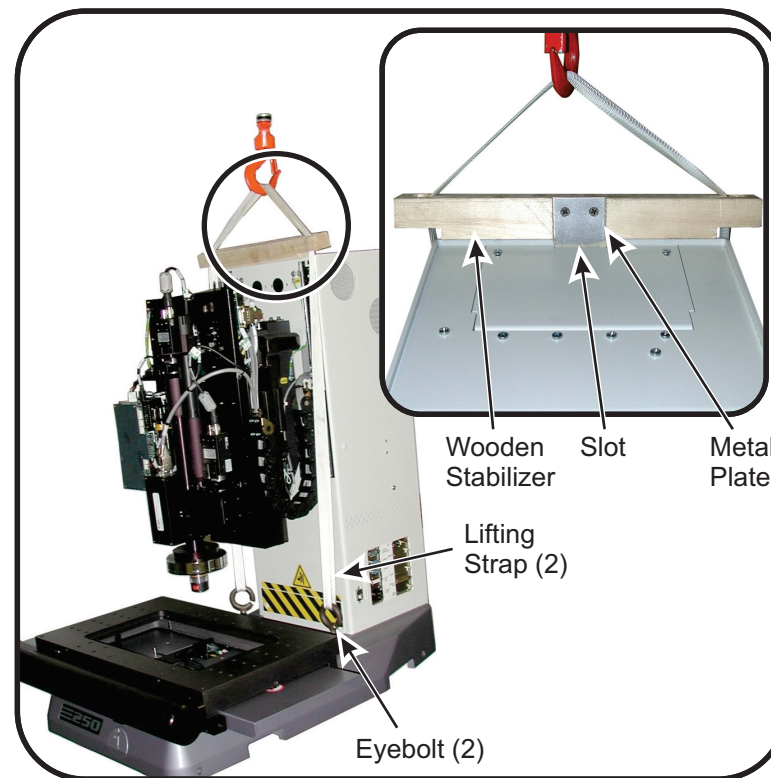
Be sure to review all safety information provided in the Benchmark 250 Installation Manual before operating the system.

TOOLS/EQUIPMENT REQUIRED

- Forklift or pallet jack
- Large diagonal cutters
- Power or manual hoist
- Set of Metric hex key (Allen) wrenches
- Set of English hex key (Allen) wrenches
- Glass cleaner
- Soft, lint-free toweling
- Small flat-head screwdriver

2 LIFTING THE MACHINE

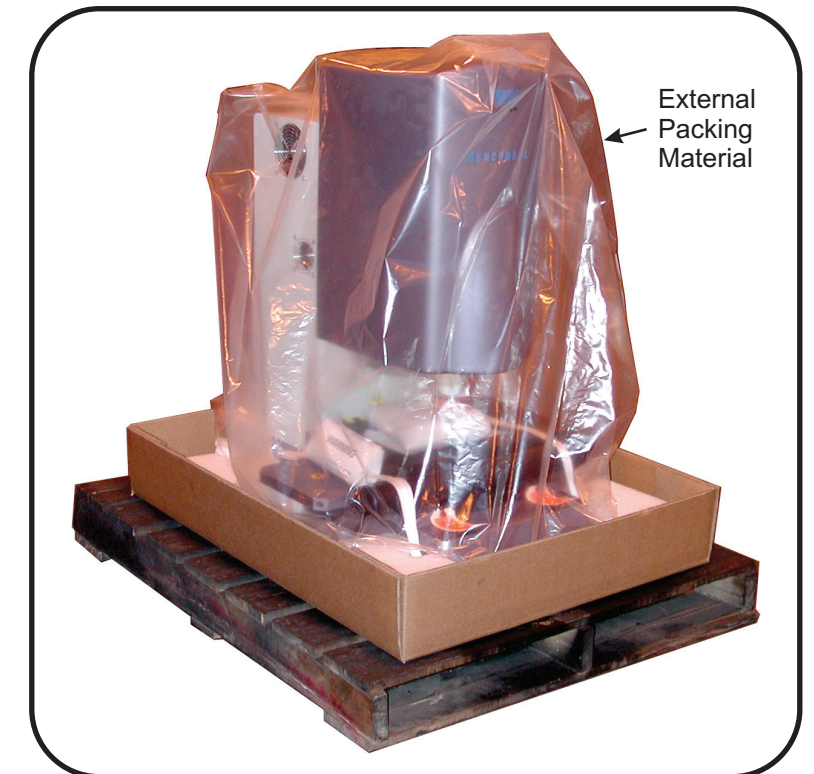
1. Remove the front cover by lifting it up, off of its guides.
2. Attach the lifting straps to the hook of a hoist.
3. **IMPORTANT:** Insert the metal plate attached to the wooden stabilizer into the slot on top of the machine.
4. Slowly lift the machine with a hoist, steadying it at all times.
5. Move the machine to the final operating location, and slowly lower it into position on a workbench capable of bearing the full weight of the machine (155 kg).
6. Remove the lifting materials.



IMPORTANT: The workbench must be stable during system operation, with no movement or vibration.

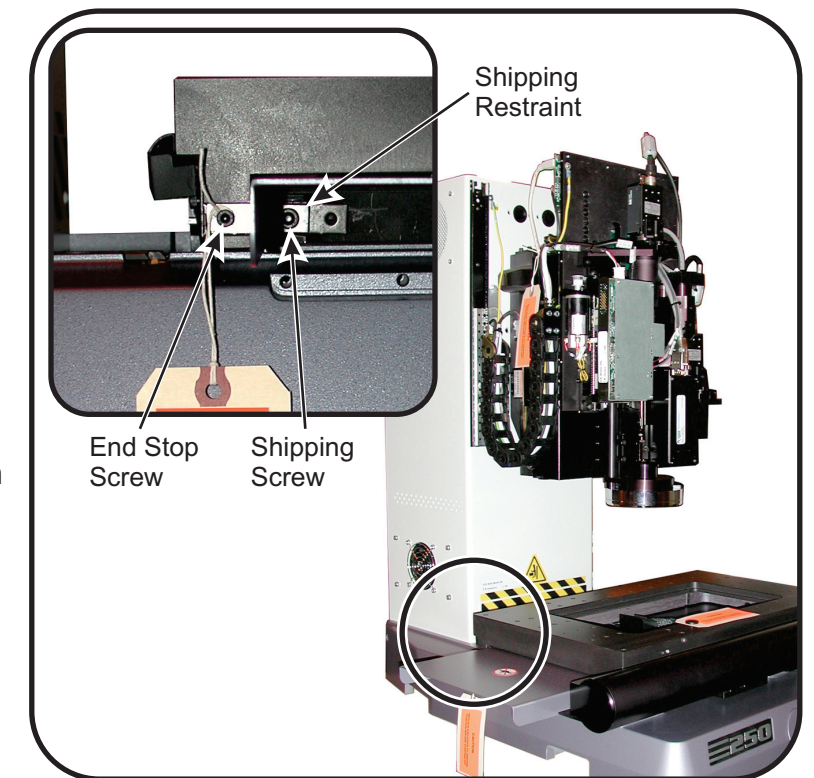
1 UNPACKING THE MACHINE

1. Move the shipping carton or crate to the installation site.
2. Cut and remove the metal bands around the shipping carton/crate.
3. Remove the top of the carton and cardboard sleeve, or disassemble the crate.
4. Remove the external packing material.



3 REMOVING THE X RESTRAINT

1. Remove the X-axis end stop screw and shipping screw.
 2. Remove the shipping restraint.
- ⚠ If the small, black X-axis ball retainer falls out, put it back in place before continuing.**
- ⚠ Do not remove/discard the end stop. It is essential to the operation of the X-axis transport.**
3. Re-install the X-axis end stop screw.



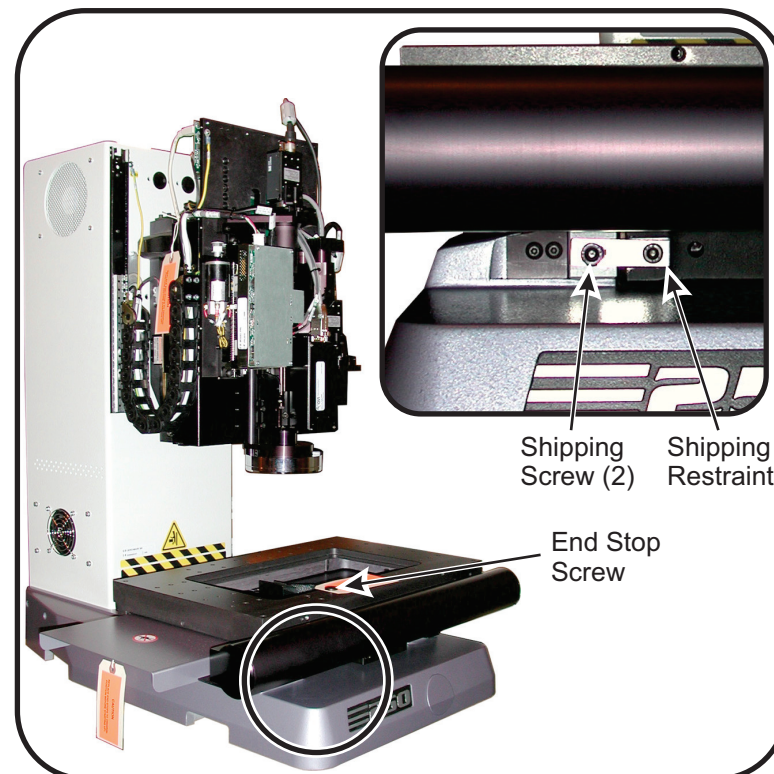
4 REMOVING THE Y RESTRAINT

1. Remove the two shipping screws.
2. Remove the shipping restraint.

! If the small, black Y-axis ball retainer falls out, put it back in place before continuing.

! Do not remove/discard the end stop. It is essential to the operation of the Y-axis transport.

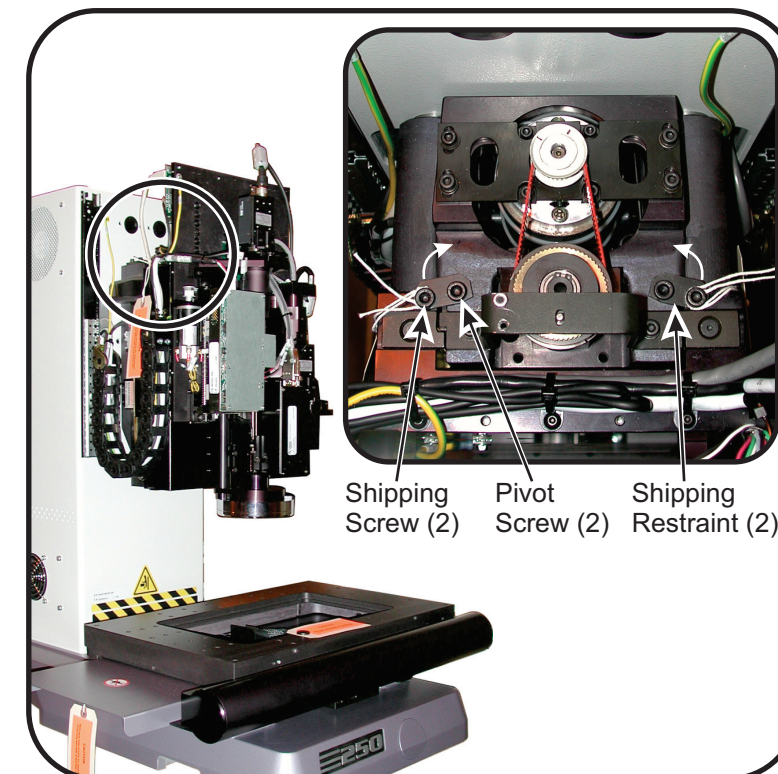
3. Remove the Y-axis end stop screw from its storage position in the stage.
4. Install the Y-axis end stop screw.



5 REMOVING THE Z RESTRAINTS

There are two Z restraints.

1. Remove the shipping screw from each restraint.
2. Loosen the pivot screw in each restraint.
3. Move each shipping restraint so it does not interfere with the movement of the Z-axis slide.
4. Tighten both pivot screws.

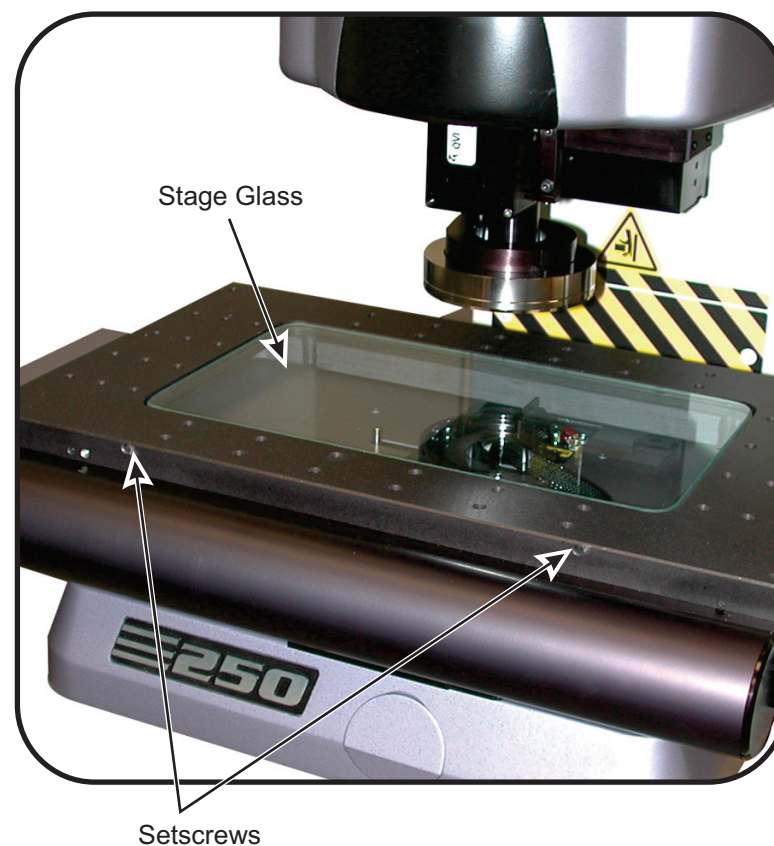


6 INSTALLING THE STAGE GLASS

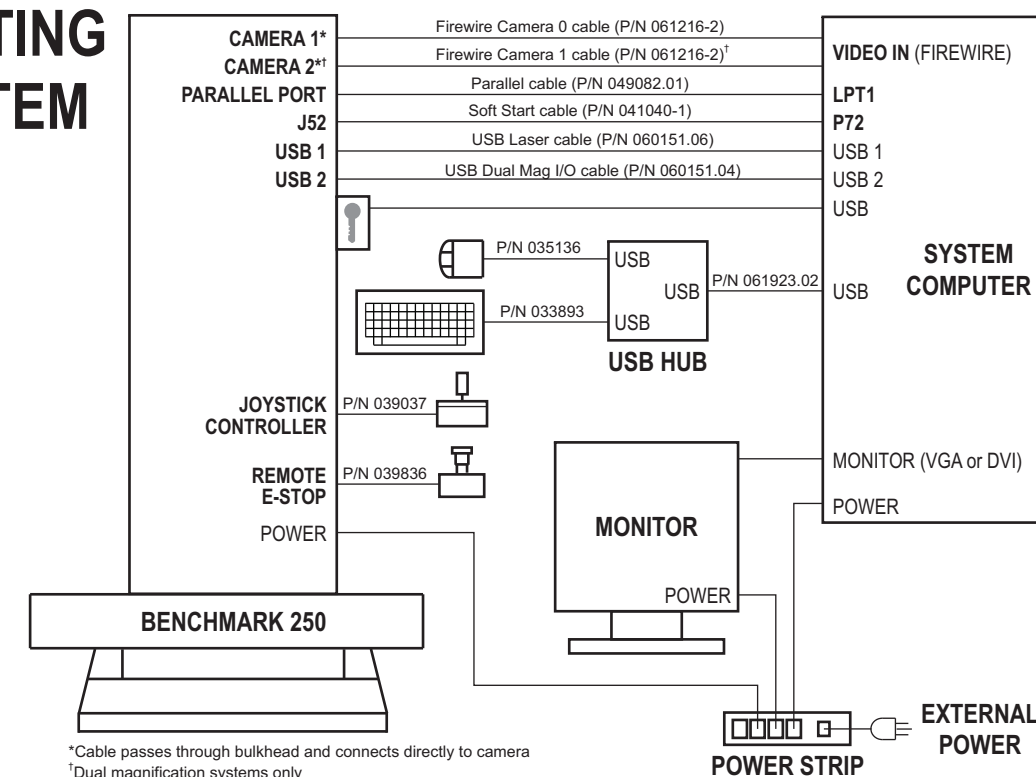
1. Carefully unwrap the stage glass.
2. Clean both sides of the stage glass with glass cleaner.
3. Carefully set the stage glass into the recessed area in the stage.

! Do not overtighten the stage glass setscrews. Excessive pressure may damage the glass.

4. Tighten the two stage glass setscrews in the front of the stage.



7 CONNECTING THE SYSTEM



STOP HERE!!

Do not apply power to the system unless trained or qualified. Potential for system damage and personal injury.