LP FINAL ASSEMBLY & INSTALLATION

The positioner provides a means for aligning and indexing the rigid lancing machine from tube to tube. It has an X and Y motion, along a straight line in either direction. It can be remotely operated, allowing further separation of the operators from the waterjets.

The first step is to assemble the positioner as described below; continue with the assembly of the lancing machine.

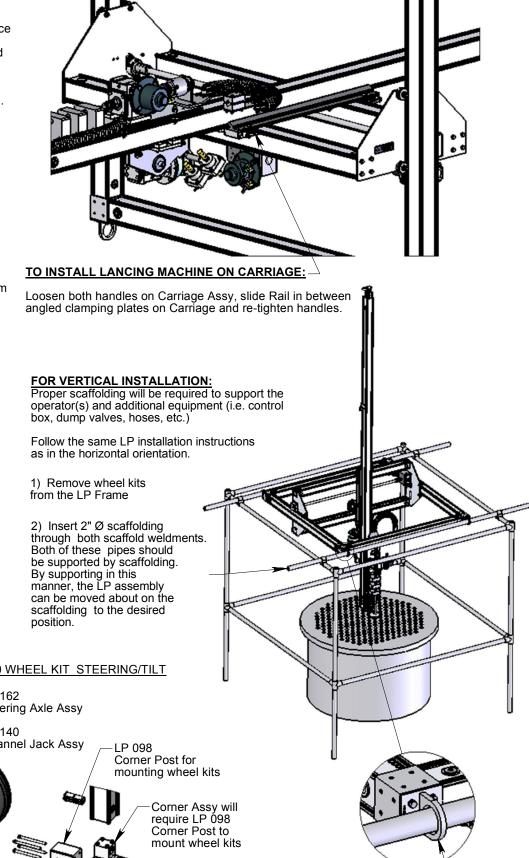
Vertical Installation:

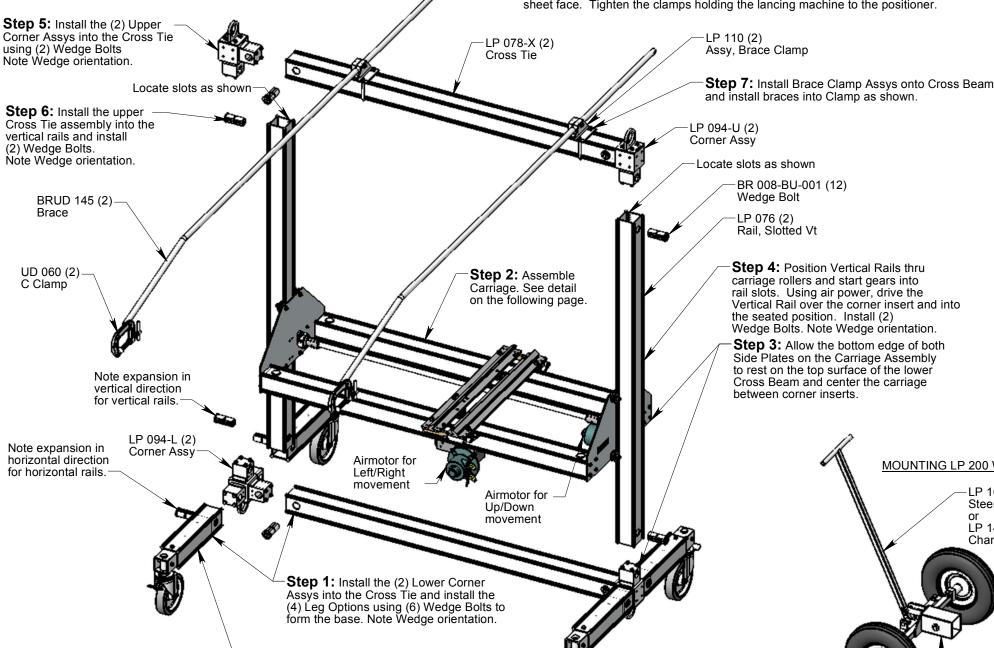
A vertical setup requires scaffolding to support the positioner. Typically, the scaffold bars are passed thru the scaffold weldments (loops). The positioner supports the lancing machine. No rear support is used. As in horizontal lancing, the cross motion of the positioner should be aligned with the tube rows, so moving from tube to tube only requires moving one axis. The scaffolding must be rotated to achieve this. Since it is very difficult to perfectly align the tube rows with the machine, occasional adjustments must be made on the other axis. The weight of the positioner, scaffolding and lancing machine counter the jet thrust.

Horizontal Installation:

Begin with the placement of the lance positioner. For lancing rails 15 feet or shorter, the lance positioner may be used as the only support for the lancing machine. The lance positioner should be placed back from the tube bundle face at 5 to 7 feet. If the bundle is on rollers, it should be positioned so the tube rows are horizontal. It is recommended that the positioner be placed on jacks for stability instead of on the wheels. Use the leveling jacks to further align the horizontal axis of the positioner with the tube rows.

Connect the support rods between the bundle and the positioner. Next, set up the rear support, in line with the positioner where the rear of the lancing machine will be located. If the lance or lances are not in the lancing machine, they should be installed now. Place the lancing machine (with lances) on the positioner and attach the rear support chain hook to the eye on the rear of the machine. Attach the high pressure hose to the swivel inlet or the manifold on multiple lance machines. Flush the system at this point; water should be coming through the lances. Once flushed, properly prepare the lance ends and attach the nozzle tips. These should be right handed threads so the tip will be tightened by the rotation of the lance when in operation. Slide the lancing machine toward the tube sheet, until the front splash guard is within 1 to 2 inches of the tube sheet face. Tighten the clamps holding the lancing machine to the positioner.





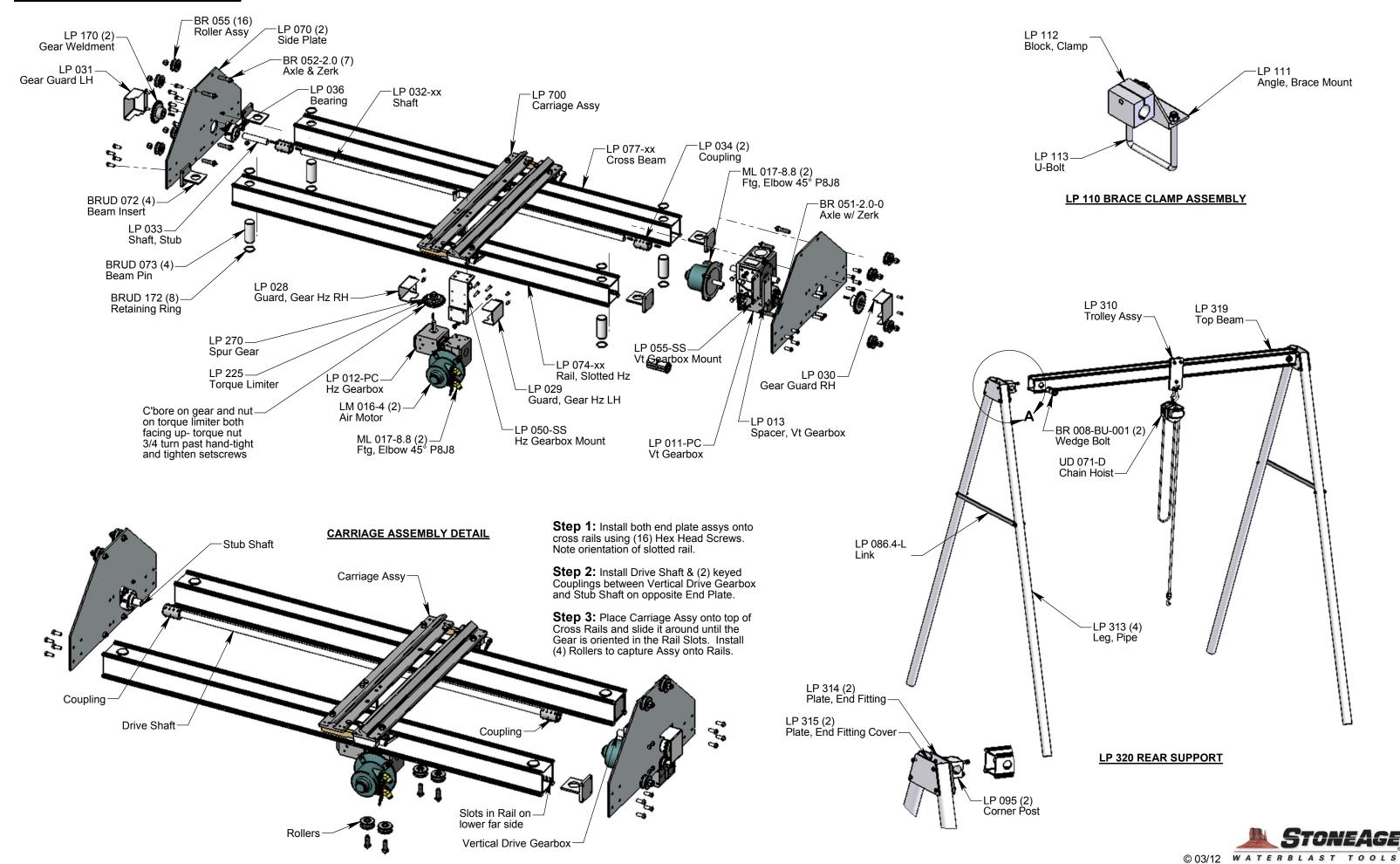
-LP 335-XXX Leg Options

MOUNTING LP 200 WHEEL KIT STEERING/TILT LP 162 Steering Axle Assy LP 140 Channel Jack Assy

> Install over mounting post and bolt in place

LP 097 Scaffold Weldment-

LP SUBASSEMBLY PARTS LISTS



LP SUBASSEMBLY PARTS LISTS

