

Technical Service Bulletin 04T10 Installation Tool Requirements

- 1) **General.** Regardless of whether Sawing Systems has been contracted to install a machine, the customer must provide the following tools and equipment at customer expense. Sawing Systems' technician will provide only specialized equipment and hand tools required for machine adjustments. In addition, the customer is responsible to provide all installation materials per TSB 04T08 Installation Materials List. These tools must be available before the technician arrives on the job site or delay penalties may be charged to the customer.
- 2) **Tools** required if installation includes Sawing Systems help:
 - a) For saw installation:
 - i) Heavy duty fork truck and driver or contract with an equipment rigger to provide lifting capability. The lifting capacity required is as follows:
 - (1) For a 515C: 2000 lb rating at 24". Caution: Full load capacity is rated with the load close to the mast. As the reach is extended, the capacity must be de-rated.
 - (2) For 541C with hydraulic drive and tilting arbor: 3500 lb rating at a reach of 24".
 - (3) For other machines, consult Sawing Systems engineering for weight estimates and rigging suggestions.
 - ii) Milling wheel. A milling wheel is a saw blade with a wide kerf and it is used for planing surfaces. It is needed if the cutting surface is to be planed parallel to the saw X-Y travel plane. Its diameter should be at least as large the smallest blade to be used on the saw or large enough to reach the surface to be planed.
 - b) Additional for turntable installation:
 - i) Fork truck capacity: 42" forks and rated 3000 lb at a reach of 36".
 - ii) Tools for mixing cement: Power mortar mixer. (Play sand mix without gravel or marble chips will be sticky like mortar and a power cement mixer will not work.)
 - iii) Cement handling and finishing tools: Shovel, hoe, screed board, float.
 - iv) Portable circular saw, large square (24x18" minimum), staple gun, screw gun (if available) for building cement forms for table
 - v) (2) C-clamps with minimum 3-1/8" jaw, and (4) C-clamps with minimum 4-1/2" jaw
- 3) **Additional Tools** required if installation by customer only:
 - a) Hammer drill and 12" masonry drill. Drill size is same as anchor size. The hammer drill and bits can be rented locally. Drill must be a Hilti model 25 or better. See TSB 04T08 Installation Materials List for anchor sizes.
 - b) Transit level and tripod. (Installer can provide if job site is within driving distance of Knoxville. Check with your SSI salesman.)
 - c) 18" accurate carpenter's level (optional) and carpenter's torpedo level.
 - d) Tape measure and adjustable wrenches
 - e) Transit level
 - f) Precision level calibrated to better than .005 inches per line per foot.
 - g) Common tools: Hammer, pry bar, socket wrenches, open-end wrenches.
 - h) Music wire, 0.014" stainless with spring temper. For measuring straightness of multi-section rails on large machines. Available from Sawing Systems or direct from



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McMaster-Carr, #9495K57. Metal stand-off (gauge) blocks and C-clamps or wide jaw quick clamps are helpful to hold wire.

- i) Tape measure and laser measure (optional)
- j) Water level or transit level (optional)
- k) Precision level calibrated to better than .005 inches per line per foot. (Not a carpenter's level. Precision levels are available from industrial suppliers and can cost over \$100.)
- l) Marking pen (Sharpie), pencil
- m) Laser square (optional)
- a) Dial indicator and magnetic base/stand (available from SSI or industrial suppliers).