

Alignment Simulators

LT 300 Alignment Simulator

The LT 300 is a rugged but lightweight shaft alignment simulator. It is an excellent tool for teaching and practicing precision alignment and soft foot correction. The LT 300 is designed from the base up to meet the needs of industrial training departments. Its ample shaft-to-base clearance permits bracket setups for laser or dial indicator systems.

The housing is made of high-strength aluminum to promote uniform deflection characteristics, with torsional soft foot characteristics that closely approximate NEMA motors. The basebolts and jackscrews are Grade 8 for long life, and are specially designed for constant tightening and loosening. The jackscrews permit controlled horizontal moves. The shafts are connected by a flexible coupling that can be uncoupled and recoupled in seconds. It has a slight amount of backlash, which is desirable to study the effects of this condition on alignment readings in some systems.

The solid coupling hubs also permit the use of magnetic bracket systems, such as our ALI 2.112_{SET}.

The independent drag brakes in each shaft permit complete friction adjustment from loose to locked shafts. The knurled hand wheel and precision bearings assure controllable rotation of the shafts for good repeatability.

All in all, it is extremely rugged and sturdy, yet lightweight for ease of transportation.

Dimensions: 25 ½" × 10" × 10 ½"

Net weight: 46 ½ lbs.

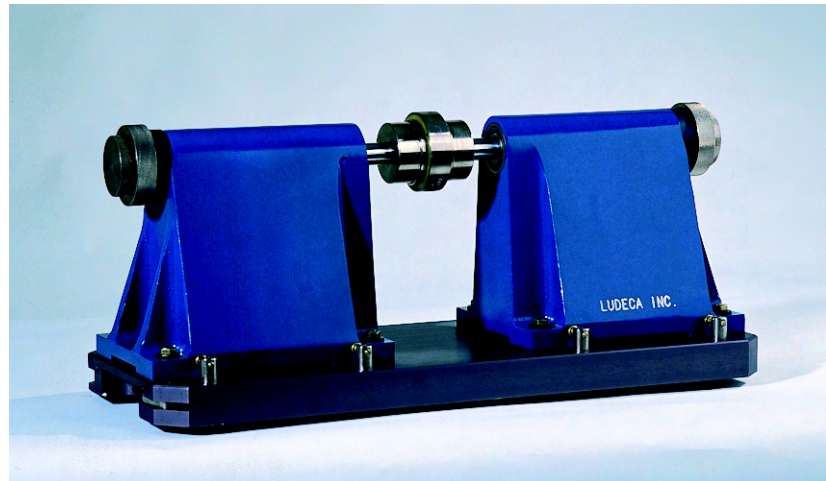
Net weight w/LT 302: 70 lbs.

LT 302 Carrying Case for LT 300

The LT 302 is a heavy duty foam lined carrying case with steel handles on each end and on top, and padlockable-latch.

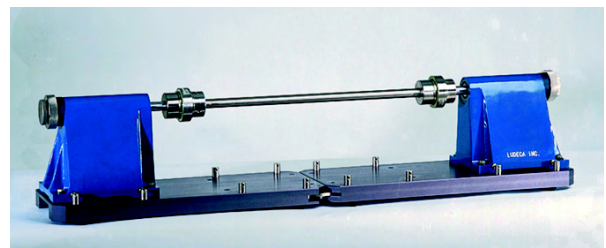
Outside Dimensions: 28" × 13 ¼" × 12"

Net weight: 23 ½ lbs.



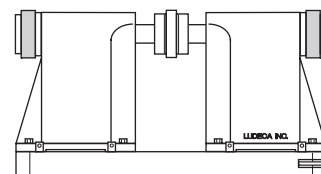
LT 301 Alignment & Jackshaft Simulator

The LT 301 is a multi-purpose simulator. It has all the advantages of the LT 300 plus a 21" jackshaft with an extra base to demonstrate or teach spacer shaft alignment. Two bases can be rigidly joined and locked together with a quarter turn of a wrench. The jackshaft has a coupling half on each end.



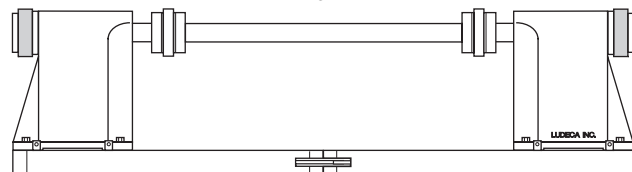
Dimensions: 51" × 10" × 10 ½"

Net weight: 69 lbs.



Standard Alignment Setup

or

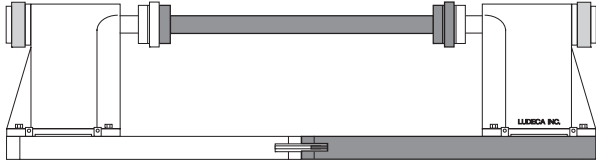


Spacer Shaft Alignment Setup

Optional Accessories

Convert a LT 300 simulator to a jackshaft alignment simulator:

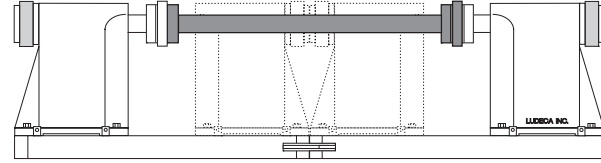
▼ LT 303 Jackshaft and Base Kit



This accessory kit adds jackshaft alignment capabilities to the LT 300 simulator. The jackshaft is 21" long and has a coupling half on each end to mate with those on the machines. The bases can be rigidly joined and locked together with a quarter turn of a wrench.

Net weight: 22 ½ lbs.

▼ LT 304 Long jackshaft only



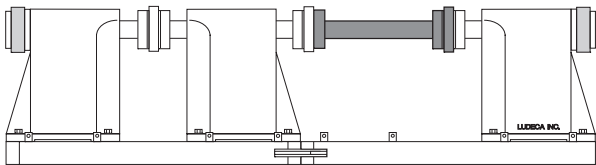
The jackshaft is 21" long and has a coupling half on each end to mate quickly with those on the machines. (This is the correct option if you already own two LT 300 simulators. Join the bases, remove the 2nd and 3rd machine and insert the long jackshaft.)

Net weight: ≈6 lbs.

Convert two LT 300 simulators to a machine train simulator:

For a 3-machine train:

▼ LT 307 Short jackshaft

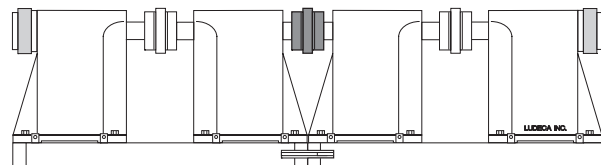


The short jackshaft mates two simulators into a 3-machine train simulator. (Join the bases, remove the 3rd machine and insert the short jackshaft in its place.)

Net weight: ≈5 lbs.

For a 4-machine train:

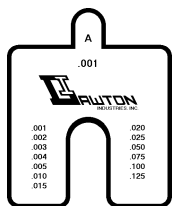
▼ LT 308 Coupling



The extra coupling joins two simulators into a 4-machine train simulator. (Join the bases, remove the hand wheels from the 2nd and 3rd machine and insert the coupling.)

Net weight: ≈3 lbs.

All these conversions can be performed in one to three minutes and only require a wrench for the bases and an Allen key for the coupling's set screw.



Also available **precut SS 304 Shims** in kits or individual packages.
 Sizes: A: 2" x 2", B: 3" x 3", C: 4" x 4", D: 6" x 5", G: 7" x 7" and H: 8" x 8".
 Thicknesses: .001", .002", .003", .004", .005", .010", .015",
 .020", .025", .050", .075", .100", and .120".