

<i>Installation and Use Instructions for the Big Ass Workbench Manufactured by Mercer Innovation, LLC</i>
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Introduction

Mercer Innovation, LLC has proudly and domestically manufactured the first in a line of industrial benches and furniture for serious shop use, as described below.

Description

The Big ASS workbench, as shown below, is the result of many years of use, ruggedly designed by *Mercer Innovation, LLC* for use in an industrial or commercial setting.



Figure 1 Workbench - Overall View

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Figure 2 Workbench - Back



Figure 3 Workbench – Mounting Brackets – 4 Places

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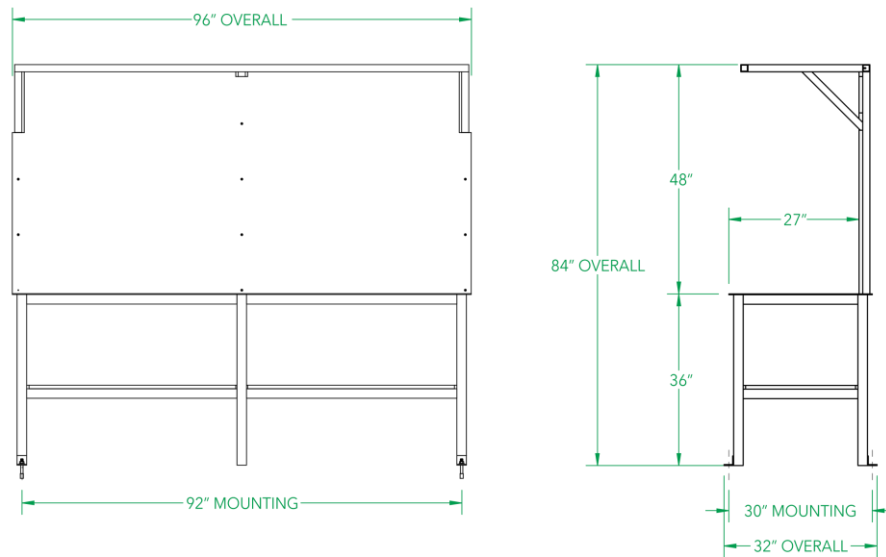


Figure 4 Workbench Dimensions

The bench is constructed with 2" x 2" x 11 gauge [0.120"] thick square steel tubing, welded to itself and 2" x 2" x 3/16" thick steel angle. The tabletop is made from 3/16" steel plate, extending to a width of 96" and a depth of 30" [27" to backboard], sitting at a height of 36" from floor level. The top of the Utility Rack measures 84" from the floor. A vise and/or special tools are often bolted or welded to the top for a workplace, tailored to the needs of the shop.

The bench has a lower shelf with a sheet of 3/4" thick plywood designed to support the heaviest of tools or other equipment. Mounted to this bench is a 1" x 1" x 11 gauge thick square tubing backboard frame, with 3/4" plywood attached. Typically, tools and containerized fastener storage bins are screwed to the plywood for the convenience of the user. Also welded to the backboard frame is an overhead utility rack for attached lighting and/or pressure hoses and tubing.

The fully assembled workbench will give the user many years of reliable service and is protected with durable paint, with the backboard as white to illustrate tools and storage. The bench assembly is painted *Mercer Blue*.

Applications

The following represents a list which includes, but is not limited to the following:

- Original equipment manufacturers' (OEM'S) construction, fabrication, assembly, modification and repair of engines, transmissions, etc.
- OEM'S construction, fabrication, assembly, modification and repair of line valves, pressure relief valves, specialty valves.
- Assembly and parts packaging.
- Assembly and parts welding, brazing or soldering.

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- Cleaning – washing and/or ultrasonic
- Pipe cutting and threading.
- Structural metal cutting, say with a portable band saw.
- Repair shop activities.
- Appropriate combinations of the above.

Weight (Load) Limits

Maximum Vertical and Side loads as shown:

- 2000 lbs vertical load as applied to the Tabletop
- 250 lbs vertical load as applied to the Utility Rack
- 500 lbs side load (side-to-side or front-to-back or back-to-front) as applied to the Tabletop

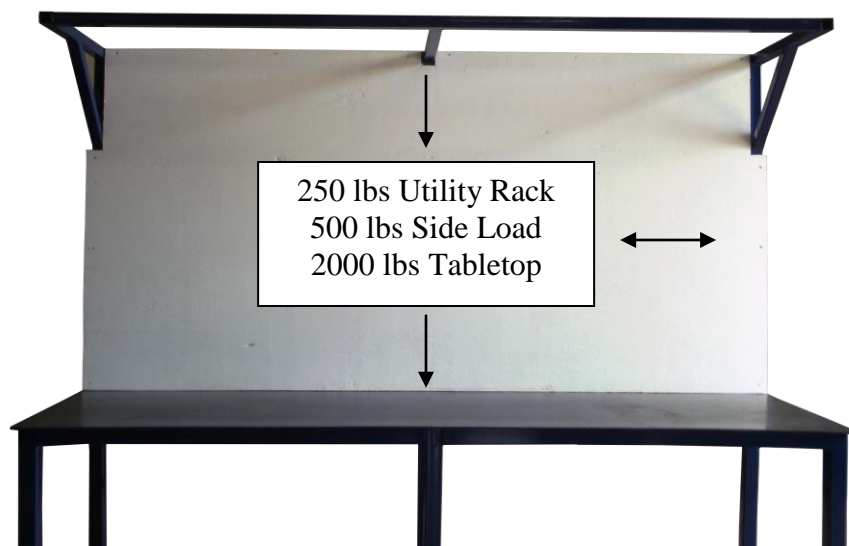



Figure 5 Workbench - Maximum Loads

Installation Requirements

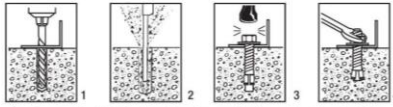
Warning

The workbench assembly must be anchored to a concrete floor, minimum concrete thickness of 3 inches, with four (4) concrete anchors, ½" diameter by 4-1/4" long, supplied with the bench. The anchors must be installed by that manufacturer's instructions. Failure to comply with these requirements is an unsafe installation and will nullify all warranties which are expressed or implied.

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MANUFACTURER'S INSTALLATION STEPS



1. Select a carbide drill bit with a diameter equal to the anchor diameter. Drill hole 1/4" deeper than anchor embedment.
2. Clean hole with pressurized air or vacuum to remove any excess dust/debris.
3. Using the washer and nut provided¹, assemble the anchor, leaving nut one half turn from the end of anchor to protect threads. Drive anchor through fixture to be fastened until washer is flush to surface of fixture.
4. Expand anchor by tightening nut to the specified setting torque see Table 1 (approx 3-5 turns).

NOTE: Read **Caution** before installation.

TABLE 1

Anchor Diameter & Drill Bit Size Inch**	Setting Torque Ft. lbs.*	Minimum Anchor Embedment Inch
3/8"	30	2"
1/2"	45	2-1/2"
5/8"	90	3-1/4"

* Setting torque only applies at time of installation.

WARNING!

- ⚠ Use in concrete **ONLY**. Not recommended for use in lightweight masonry such as block or brick.
- ⚠ Always wear safety glasses and other necessary protective devices or apparel when installing or working with anchors.
- ⚠ **CAUTION:** Use of core drills is not recommended to drill holes for use with this anchor.

Do not use an impact wrench to set or tighten the anchor.
Not recommended for use in concrete which has not had sufficient time to cure.

¹ The use of Trubolt+ packaged nuts and washers is required for installation of this anchor. The use of alternate components may result in lower tension and/or shear performance of the anchor.
^{**} The use of carbide drill bits manufactured within ANSI B212.15 drill bit diameter requirements is recommended for installation of this anchor.

Anchor spacing and edge distance (anchor installation locations) are the responsibility of the engineer of record. Oversized holes in the base material will make it difficult to properly set the anchor and will reduce the anchor's load capacity.

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Figure 6 Concrete Anchor Installation Instructions

Limited Warranty

Mercer Innovation, LLC warrants the goods delivered hereunder to be free from defects in material and workmanship, under normal use and service, for a period of one (1) year after date of shipment. *Mercer Innovation, LLC's* obligation under this warranty is limited to repair or replacement at *Mercer Innovation, LLC's* sole option, of any defective item. *Mercer Innovation, LLC's* liability under this warranty is conditioned upon Purchaser giving immediate written notice of any such defect. *Mercer Innovation, LLC* shall have the option of requiring the return of the defective item, transportation prepaid, to establish the claim. Any repair or replacement of defective goods or parts will occur at *Mercer Innovation, LLC's* workbench manufacturing location noted on the Return Authorization paperwork. Purchaser shall bear all freight costs incurred in transporting defective goods or parts to and from *Mercer Innovation, LLC's* plant. *Mercer Innovation, LLC* shall not be held liable to damages caused by delays in repair or replacement of any defective items. The provisions in the *Mercer Innovation, LLC* literature and specifications are descriptive only, unless expressly stated as warranties.

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Mercer Innovation, LLC's liability to the Purchaser, arising out of the supplying of the said goods or their use, whether based upon warranty, contract or negligence, shall not in any case exceed the cost of correcting defects in, or replacing, the equipment as herein provided. Upon the expiration of said one (1) year, all such liability shall terminate. *Mercer Innovation, LLC* shall not in any event be held liable for any special, indirect, or consequential damages.

SUITABILITY MATERIAL AND PRODUCT FOR THE USE CONTEMPLATED BY THE BUYER IS THE SOLE RESPONSIBILITY OF THE BUYER.