



Milking Stand Plans

Preparation

Tools

- Screw gun with 1/8" wood drill bit and phillips head bit
- Handsaw and/or circular saw
- Miter box, or ability to accurately cut a 45 degree angle
- Tape measure
- Carpenter's square
- Pencil

Bill of Materials

<u>Part</u>	<u>Pcs</u>	<u>Dimensions</u>
Planks	(4)	6" x 36" Fence boards
Ribs	(4)	1" x 3" x 20 ¹ / ₄ "
Rails	(2)	1" x 3" x 36"
Back legs	(2)	2" x 2" x 18"
Front legs*	(2)	2" x 2" x 41"
Braces	(4)	2" x 2" x 12 ³ / ₄ "
Supports	(2)	1" x 3" x 20 ¹ / ₄ "
Headlock	(6)	1" x 4" x 20 ¹ / ₄ "
Wood screws	(50+)	1 ¹ / ₂ " length
Hex-head bolt, with washer & nut	(1)	1/2" x 2" length

*Note: this stand is designed for Nigerian dwarf goats. If you have a larger breed, make the front legs 48" in length.

All assembly requires the use of screws. It is important to drill pilot holes before inserting and tightening the screws, so the wood does not split or crack.



If you use the materials suggested you will end up with a sturdy and affordable milking stand, but feel free to make substitutions where you see fit.



A handy neighbor is always helpful, especially one that has a shed stocked with tools.

Step #1: Building the Platform

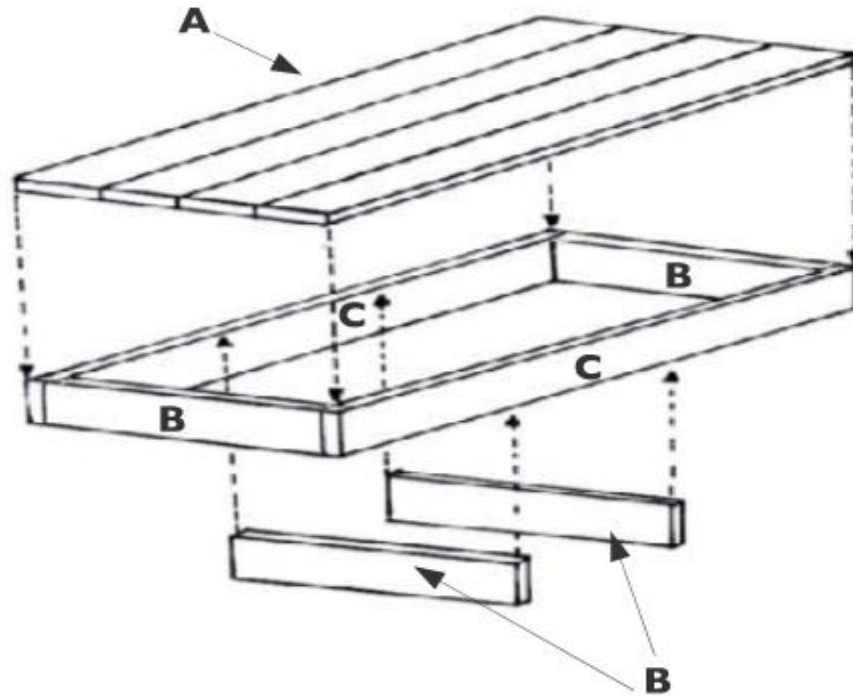
Bill of Materials

<u>Key</u>	<u>Part</u>	<u>Pcs</u>	<u>Dimensions</u>
A	Planks	(4)	6" x 36" Fence boards
B	Ribs	(4)	1" x 3" x 20 1/4"
C	Rails	(2)	1" x 3" x 36"

(1) Drill two pilot holes for each junction, then screw the ribs (B) to the rails (C).

(2) The two middle ribs should be attached 12" from the ends.

(3) Screw the planks to the skeleton with at least one screw in each junction. Then you're done with the platform!



Pilot holes prevent the wood from cracking.



Middle ribs should be 12" from the end.



If you measured correctly the planks should be flush with the ribs and rails.

Step #2: Attaching the Back Legs

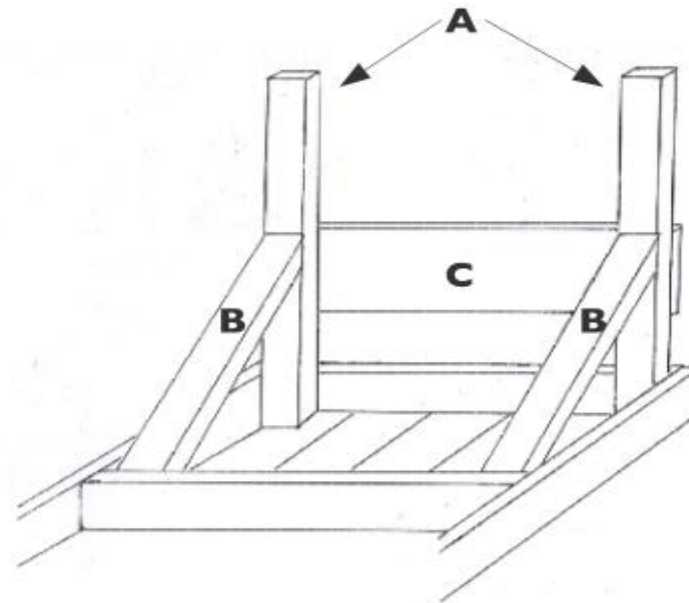
Bill of Materials

<u>Key</u>	<u>Part</u>	<u>Pcs</u>	<u>Dimensions</u>
A	Back legs	(2)	2" x 2" x 18"
B	Braces	(2)	2" x 2" x 12 ³ / ₄ "
C	Support	(1)	1" x 3" x 20 ¹ / ₄ "

(1) The back legs need to be at 90 degree angles from the platform. Use a square to make sure the angle is correct. Then drill pilot holes and tighten screws into place.

(2) The end of the braces need to be cut to 45 degrees. Use a saw. A miter board might be helpful. The long side should measure 12³/₄".

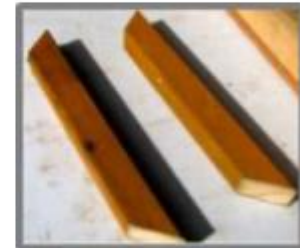
(3) After drilling pilot holes, screw in the braces. The exact spot to attach is when the angles of the brace have no gaps and attach to compliment the 90 degree of the leg and platform.



(4) Attach the support making sure it is level and near the height that the braces attach to the legs.



Use a square to ensure the legs are at 90 degrees.



Measure carefully so your braces have 45 degree angles.



The support will stabilize the back legs.

Step #3: Attaching the Front Legs

Bill of Materials

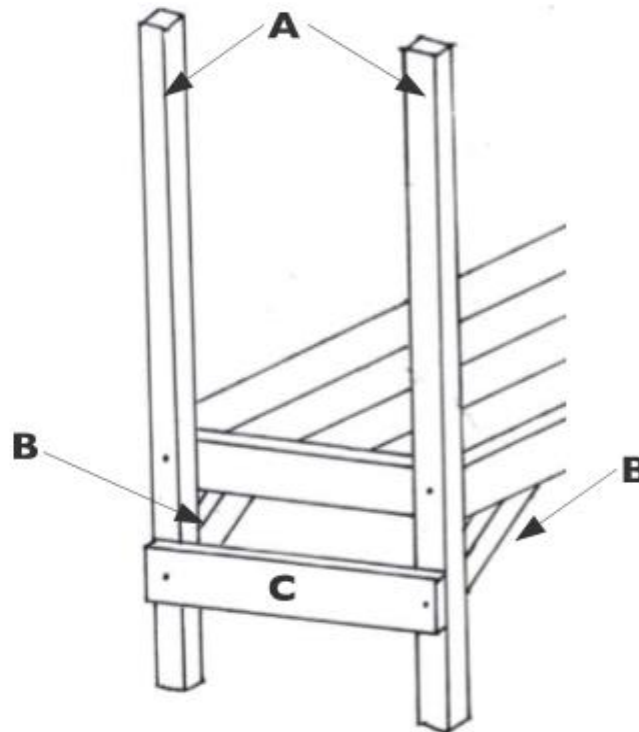
Key	Part	Pcs	Dimensions
A	Front legs*	(2)	2" x 2" x 41"
B	Braces	(2)	2" x 2" x 12 ³ / ₄ "
C	Support	(1)	1" x 3" x 20 ¹ / ₄ "

*Note: this stand is designed for Nigerian dwarf goats. If you have a larger breed, use front legs with 48" in length.

(1) The distance from the top of the platform to the ground should be the same for all four legs. Measure this distance in the back legs, and attach the front legs accordingly to the outside of the platform.

(2) Cut the braces the same as the back legs with 45-degree angles and attach.

(3) Attach the support making sure it is level and near where the braces are to the legs.



The front legs are attached on the outside of the platform, while the braces and support are attached in the same manner as the back legs.

Step #4: Headlock

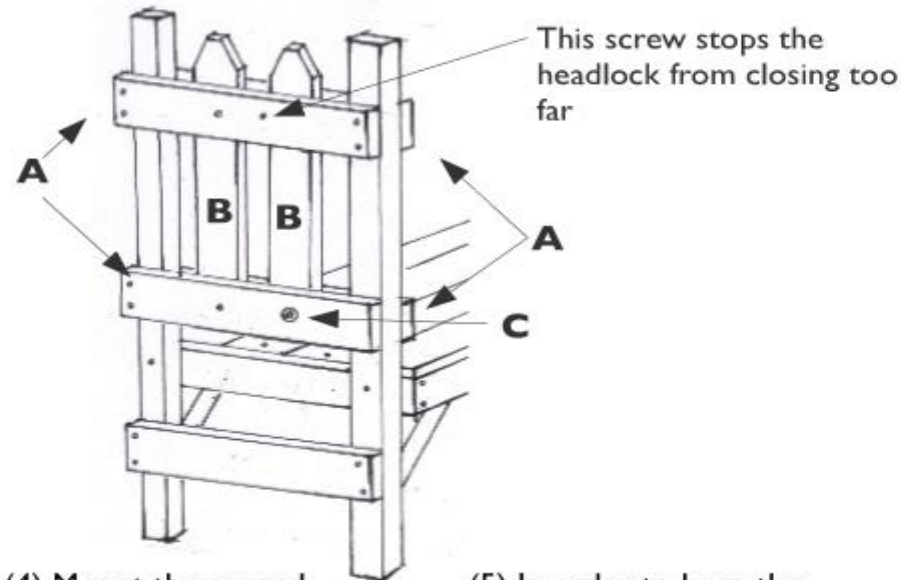
Bill of Materials

<u>Key</u>	<u>Part</u>	<u>Pcs</u>	<u>Dimensions</u>
A	Support	(4)	1" x 4" x 20 ¹ / ₄ "
B	Lock	(2)	1" x 4" x 20 ¹ / ₄ "
C	Hex-head bolt, with washer & nut	(1)	1/2" x 2" length

(1) The upper supports should be installed 3¹/₂" from the top of the front legs. Use two screws for each side. Make sure to stagger the screws so they don't hit each other.

(2) The lower supports should be installed 3¹/₂" from the top of the platform.

(3) Establish the centerline in the upper support. Then attach the first headlock 2" from this line. Screw it into both the upper and lower supports so that it cannot swing.



(4) Mount the second headlock on the lower support with a bolt/washer and nut allowing it to swing. Again this lock should be 2" from the center line, so that there is 4" between the two headlocks.

(5) In order to keep the swinging headlock from closing too far. Insert a screw 2" from the center line in the upper support.



Cross pieces provide upper support for the legs and form the structure to hold the locks in place.



Cut the tops of your headlocks for added grip and a better look

Step #5: Final Touches

Now you should have a very sturdy milking stand. Adding just a few more accessories will make the process of milking your goats even easier.

(1) A feed box is vital to keep your goat busy while you milk. Nothing fancy needed here. Just attach a spare container onto the lower headlock support.

(2) If you already have a Henry Milker, a box for the jars will make milking even easier. You can use spare wood to make a 10" x 5" x 5" attachment to hold your jars.



(3) In order to extend the lifetime of your stand, give it a thick coat of weatherproof paint.

(4) An elastic band or a well-measured band of rope can be placed over the headlocks to keep your goat from moving free.

I hope you found these plans simple and easy to follow. If you have any comments or suggestions, please send me an email: mike@henrymilker.com