



## ◀ JOSH WELTON

Josh Welton, owner/operator of Brown Dog Welding LLC — a fabrication and art studio in Detroit — is an established welder, fabricator, teacher, artist, writer, social media influencer, podcast host, entrepreneur and automotive enthusiast. He is a contributing writer to *TheFabricator.com*, *The Welder Magazine* and *DodgeGarage.com*.

Follow Josh at [BrownDogWelding](#) or on Instagram @[WelderAssassin](#).

**SKILL LEVEL:** Beginner+  
**TIME COMMITMENT:** One day or less

### / TOOLS AND MATERIALS



**Multimatic® 220 AC/DC**  
(or other TIG welder)



**Spectrum® 625 X-TREME™**  
(or other plasma cutter)



**4-1/2 or 6-inch angle grinder**  
(with cutting wheel and flap disk)

1/8  
inch

**Thick stainless steel plate**

1/8  
inch

**Thick mild steel plate**

1/8  
inch

**Thick angle iron** (1-1/4" x 1-1/4")

1/16  
inch

**Stainless steel rod**

3/32  
inch

**Silicon bronze rod (SiB)**



**Two dog bowls**

### Optional Equipment/Tools



Tape  
Measure



Marker



Clamps



Copper bar  
(1/8" or thicker)

**WARNING: READ AND FOLLOW ALL LABELS AND THE OWNER'S MANUAL.**



# DOG BOWL STAND

A dog is a man's best friend, so why not create something unique for yours, like a DIY dog bowl stand! Get the steps for this easy welding project your furry friend will enjoy using every day.

## STEP BY STEP

STEP  
1



Measure the outer diameter of your bowls just below the lips they are going to rest on. Mark cut lines for circles and outer edges on stainless steel plate. Cut out with plasma cutter. Be sure to leave some extra material on the edges so you can sand down with a grinder.

STEP  
2



Mark cut lines for the two ends of your stand on mild steel plate and cut out with plasma cutter. The dimensions for the ends shown are 7-5/8" x 2-1/2".

STEP  
3



Next, clamp the ends together and use a flap disk to clean the rough edges and ensure they are symmetrical.

STEP  
4



Clean the outer edges of the stainless steel to remove any sugaring. Clamp piece tight to the table, making sure that the front of the workpiece hangs slightly over the edge. This helps to keep the piece straight while cleaning — and stops you from accidentally taking off too much material.

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**STEP 5**  
Measure and mark cut lines on the angle iron (14" in this case) and cut with a cutting wheel. These will be the sides of the stand and will give it more support.



**STEP 6**  
Tack weld the top, sides and ends of your stand together using a TIG welder and stainless steel rod.



**STEP 7**  
Once all of the pieces are tacked in place, use the silicon bronze rod to TIG braze the seams. You can do this using either AC or DC TIG — both were used on the stand shown.



**STEP 8**  
Optional: If the circles are too big for your bowls, you can weld a few tabs around the openings. Take a copper bar and clamp it on the back edge of the circle. Copper does not weld to steel, so it can be used as a backing to build each tab on. Using your TIG welder and stainless steel rod, weld a small tab to the piece. Once complete, unclamp the bar and repeat for two more tabs. Cutting the holes slightly oversized and welding in three tabs to support each bowl can also make the bowls easier to insert and remove.



**STEP 9**  
Add in dog bowls and it's ready to be put to use!



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