

Oil barrels to make generator blades

How to mount a turbine blade?

Divide the 4 rods equally over your turbine as you can see on the picture below. Stay about 2 cm away from the bows. That way you can still place some washers on your rods without them touching the blades. Take the clamps off and mount the turbine blades and the 4 smaller rods as shown in the last picture. It needs to be a tight fit !

How do you mount a generator to wood?

Screws attaching the bearing to the wood should be through bolted. If countersinking is needed, drill a countersink hole in the wood. Now, mount the turbine, attach the small gear to your generator, and mount the generator so that the gears fit together.

How much wind can a generator harness?

According to the designer, the generator can harness the wind at a paltry 4m/s, as this instills a whopping 50 rpm in the efficient rotors. The total output capacity of the setup can be marked at 3 KW. But the predicament lies with the safety factor, especially when high speed rotating blades are placed in a domestic environment.

How do you assemble a barrel set?

Using a closet flange on the inside and a flange spacer on the outside, sandwich the barrel halves together. Repeat the process until all barrels are solidly connected. Pound the PVC pipe through all of the barrel sets making keeping the barrel sets at 90 degrees apart.

How do you flange a barrel?

Put in some 1/4" nuts and bolts to hold the barrels more firmly. Drill large hole through barrels using the flange spacer as your guide (use a 4 1/2" hole saw, coping saw, or rotozip). Using a closet flange on the inside and a flange spacer on the outside, sandwich the barrel halves together.

How do you join two barrels together?

Here we join the two halves. Position barrel halves with 9" overlap and tape using duct tape to hold. Tape a flange spacer into place. Drill at least four quarter inch holes through the barrels using the flange spacer as your guide. Put in some 1/4" nuts and bolts to hold the barrels more firmly.

In this DIY project, we'll walk you through the process of creating your very own vertical axis wind turbine using items you might already have lying around, like an old satellite stand, a bicycle rim, and even empty water bottles.

Use some cutting oil because your cutting in aluminium and otherwise it will get all rough on the inside. Run the cutting tool for about 1 turn and then run it back for half a turn. This way the metal is cut inside and you will not brake your tool.

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