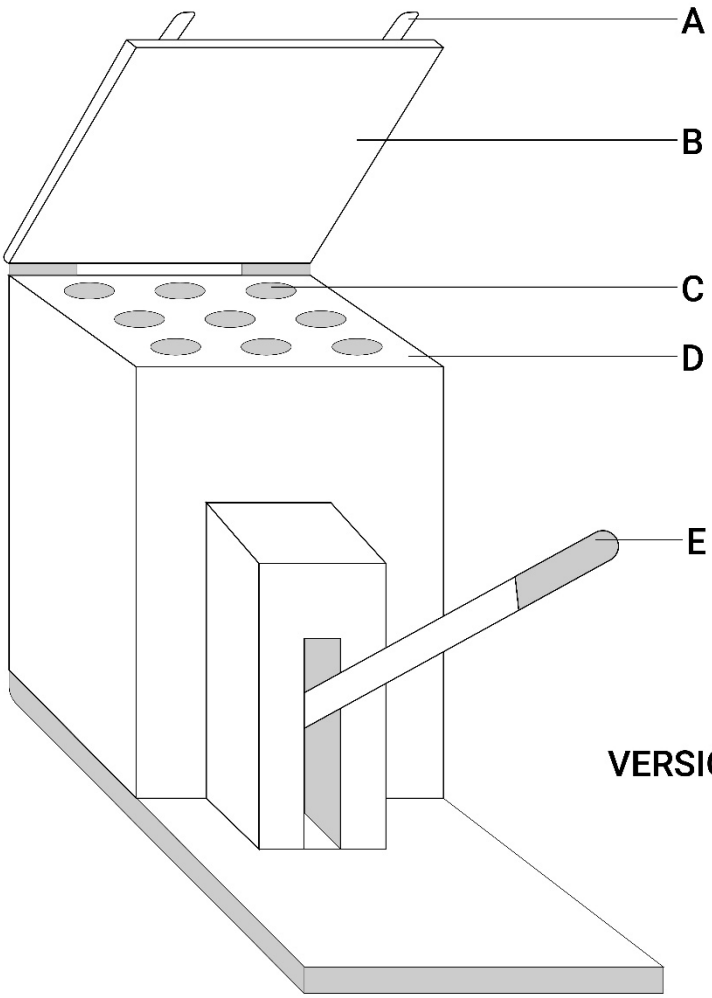
Manual Briquette Press 2.0

USER MANUAL

Built to last

1.1 Features



KEY

A. Top cover lock
B. Top cover
C. Mold cylinder
D. Mold cylinder box
E.Handle

1.2 How to use

- Unlock and raise the cover

- Load the biomass into the cylinders and fill to the brim

- Cover the cylinders and secure both locks

- Press down the lever firmly.

- Unlock and raise cover and then press the lever to raise the briquettes.

- Pick out the briquettes and allow to dry

1.3 Caution

- Careful not to drop the cylinder box on feet/toes

1.4 Important information about Briquettes

- A briquette is a compact mass that is used as a biofuel in place of firewood and charcoal. They are made from biomass processed from suitable agricultural wastes such as rice husk. Briquettes are suitable for domestic use and are excellent for cooking.

- Compared to charcoal, briquettes have a higher calorific value and their use can help lower

environmental pollution. Briquettes produce much less green house gases and their use is increasing globally

1.5 How to prepare biomass using rice husk

- There are two important factors to consider in the preparation of rice husk biomass: granulometry (grain size) and agglomeration (binding the grains together) using starch or another binding agent.

- Carbonize the rice husk adequately using a rice husk carbonizer

- Dry the carbonized rice husk to an ideal moisture content of about 10%

- The ideal average size for the carbonized grains should be about 0.85mm.

- Fetch a proportional amount of water depending on the quantity of biomass being prepared

- Pour a quarter (25%) of the water in a bucket/bowl and mix with 200g of starch and stir for 2-3 mins.

- Boil the remaining three quarters (75%) of the water.

- Pour the "cold" 25% into the boiling water and stir until it thickens and becomes adhesive

- Next add the mixture into the carbonized rice husk and mix it well.

1.6 Maintenance information

- To minimize rusting, store the Briquette Press in a dry place

- Flush residual biomass from the cylinders after use

- Slightly grease or apply anti rust to the cylinders and pistons from time to time to reduce rusting