

# Coal Briquette Machine Guideline

## What is coal briquette

Coal briquette is made by the *coal briquette machine* which uses coal dust or coal fine as the raw material. Sometimes we add other materials like the binder or something to make the briquette as most of the coal fine is hard to form together only by briquette machine.

## Why coal briquette

When we mine the coal, transport it, dry it, there comes a lot of coal dust. As matter of fact, about 20% of the coal we can get is in small particles. So, coal briquette is a good way to deal with these fine or dust as briquette has more burning value and utilization rate.

## The usage of *coal briquette*

Coal briquette has a lot of uses besides burning as fuel in home or power stations, etc. In fact, a lot of the coal briquette are also used in factories in order to get coal gas.

## Features of coal briquette making

Coal briquette is easy to get by using *coal briquette machine*. But before we use our coal fine to make the briquette, still there's something we need to pay attention to.

## Size of coal fines

Not all of the coal dust we use is with very small size, we need to ensure our raw material with the proper size, like under 5mm or under 3mm are both good size for coal briquette making.

## Moisture

As we all know, moisture is very important in briquette making no matter what your material is. Before you make your coal briquette with a coal briquette machine, make sure the moisture is proper for coal briquette making, and also notice, [different briquette machines](#) are with the different requirement on raw material's moisture.

## Binder

[Coal binder](#) not only helps to make the briquette be formed but also it helps to increase the strength of coal briquette.



## Binder way

When you run a coal briquette machine plant, here are some of the binders currently used in the coal briquette plant:

Molasses and hydrated lime

Molasses and other additives

Coal tar pitch or petroleum bitumen (asphalt)

Starch with or without additives

Lignosulphonates

Resins and hardeners

Sodium silicate

Bentonite

Plastic clay

Lime and sodium

Argo waste

Cow dung

Lignin



starch



molasses



clay



resin

Most of the coal briquette plant using binder ways to make coal briquette, If you are planning to add the binder to make coal briquette, remember, the smaller the binder particles are, the better binder effect is for coal briquette plant. The usage and the cost of the coal briquette are important things for choosing the binder. Fuel coal and coking coal will be much different in choosing the binder. You may also add other materials for reducing the cost of the briquette or a protection for the environment.

### Coal briquette machine without binder (binder free)

Coal is one special material on the briquette making process as one important binder – sodium humate can be made from coal. In fact, if we keep our coal dust with certain moisture and put them in a place for 8-24 hours, the sodium humate will be produced by the coal dust and even the coal can be briquette without binder. Also for some of the coals, there appear clays which are a very good binder for coal briquette, we can also briquette those coals without adding other binders.



Process – build a coal briquette plant

The coal briquette production process involves the following steps.

- a) Crushing/grinding of coal;
- b) Preparation of binders in semi-liquid form;
- c) Mixing of coal with binders;
- d) Briquette making;
- e) Drying;
- f) Packing.

Coal briquette machine for sale – find the most suitable one for you



- Roller briquette press machine

**Briquette shape:** round, pillow, square, etc

**Briquette size:** 10-80 mm (in diameter)

**Capacity per set:** 1-35 t/h

The roller briquette press machine makes a continuous coal briquette process with large capacity. With one briquetter, the capacity can even to 35 t/h. The briquette is also easy to be packed with packing machines. The roller coal briquette is the most popular in the industry.

*Coal briquette from roller briquette press machine*



- Hydraulic Roller briquette press machine



**Briquette shape:** round, pillow, etc

**Briquette size:** 10-60 mm (in diameter)



**Capacity per set:** 2-15 t/h

Hydraulic roller briquette press machine briquette the coal fine with a much higher pressure than normal type. The loading coal fine is with low moisture and low binder content or a binder free way. It costs more electric on each briquette but saves lots of energy on the briquette drying section.

*Coal briquette from hydraulic roller briquette press machine*



- Extrusion briquette maker

**Briquette shape:** triangle, round, square, rectangle, plum blossom, etc

**Briquette size:** 20mm to 80mm (in diameter)

**Capacity per set:** 1-12 t/h

Extrusion briquette maker is an ideal briquette machine for coal briquette making in industry. The shape of the briquette is much different from the roller briquette presses, the briquette is made with low energy cost.

*Coal briquette from extrusion briquette maker*



- Coal Charcoal Briquette Making Machine



**Briquette shape:** octagon, round, hexagon, etc.

**Briquette size:** round diameter around 50-80 mm, other shapes around 150\*70\*70 mm.

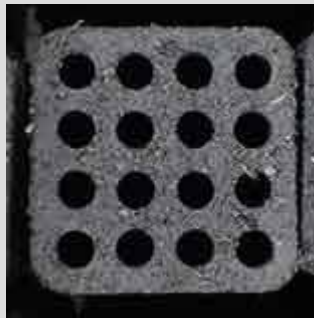
**Capacity per set:** 0.5-2 t/h

Coal charcoal briquette making machine makes coal briquette with honeycomb/beehive shape which is very popular in home usage. The machine is easy to set up and operate. It is the most popular coal briquette machine in developing countries with a small investment.

*Coal briquette from coal charcoal briquette making machine*



round



square



hexagon





Find specification for coal charcoal briquette making machine [here](#)



- Log Briquette Maker

**Briquette shape:** Cylinder, Hexagonal column, Square column, etc.

**Briquette size:** 6mm to 85mm (in diameter)

**Capacity per set:** 0.5-2 t/h

Log briquette maker is a good choice for coal briquette making, the briquette maker has a very high pressure and a stable pressure holding time. With these characteristics, the coal fine briquette in the machine with a low binder or even with binder free way like the hydraulic roller briquette press.

