

BS250 Small Saw

C.F. Nielsen now offers the BS250 Small Saw, suitable for the Mechanical Briquetting Presses BP3200, BP4000 and BP5000.

The BS250 is a small, simple and very economical saw for production of consumer logs in combination with our briquetting presses models BP3200, BP4000 and BP5000. Especially, a combination of the BP5000 and the small saw makes a very economical solution for a fairly high capacity Consumer Solution for briquettes with a diameter of 75 mm.

The saw is designed to cut the 60 and 75mm briquettes in 200 – 300 mm lengths, which is ideal as a winter fuel for open fires or wood-burning stoves etc.

How the saw works

The BS250 has been constructed as a “floating saw” as it grips around the briquette string, and moves forward by the force of the strokes from the briquette press, while cutting the briquettes in the desired length. The saw is equipped with three pneumatic cylinders, one for the saw, one for the clamp and one for the carriage. The system is controlled via actuators and position sensors.

The saw is a stand alone version with own small touch screen control panel.

Collection and reuse of sawdust

Narrow saw blades with hardened teeth are used, to minimize the amount of saw dust that has to be sucked away from the cutting area.

To prevent sawdust from spreading in the room, a ventilation system must be installed. Dust needs to be removed, because there is a risk of fire and in worst case, a dust explosion can occur. A hose/ pipe of 120 mm with an air flow of minimum 1000 m³/h needs to be mounted on the saw. The sawdust can be delivered back to a bin or storage silo via a cyclone.

Long Cooling line

25 m of cooling line is recommended in order to allow the briquette string to cool down and harden before entering the saw. In some cases a shorter cooling line can be used, but only subject to a test of the raw material. Shorter cooling lines can reduce the briquetting quality with more breakages of briquettes.



BS250 - 3D model



BS250 Small Saw



Ø75mm Softwood briquettes



Consumer briquettes

Specifications	BS250 Small Saw
Briquette diameter	Ø60-Ø75mm
Briquette length	200-300mm (+/- 5mm)
Briquette weight	0,85-1,25kg per briquette
Cycle time	12 cuts/min.
Compressed air pressure	170 L/min. 6bar
Suction connections for sawdust	2 x Ø120mm (500 and 1000m ³ /h)
Dimensions (LxWxH)	2000x970x1150mm