



BRICK SPLITTER

MODEL: BS001

SEMI-AUTOMATIC / SIDE EJECTION

Thank you for purchasing an **ABEL** automatic brick splitter.

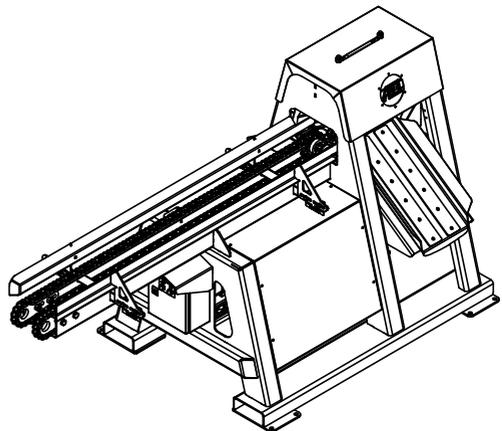
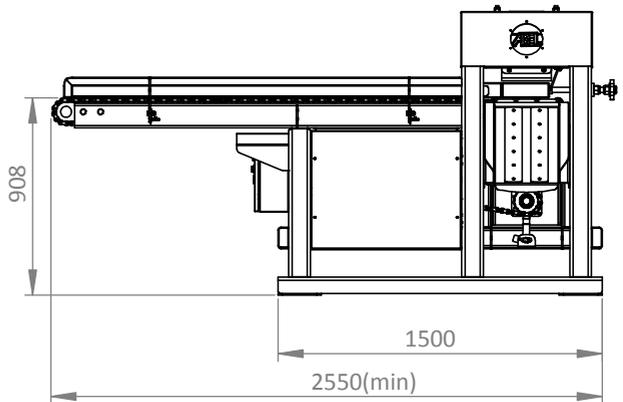
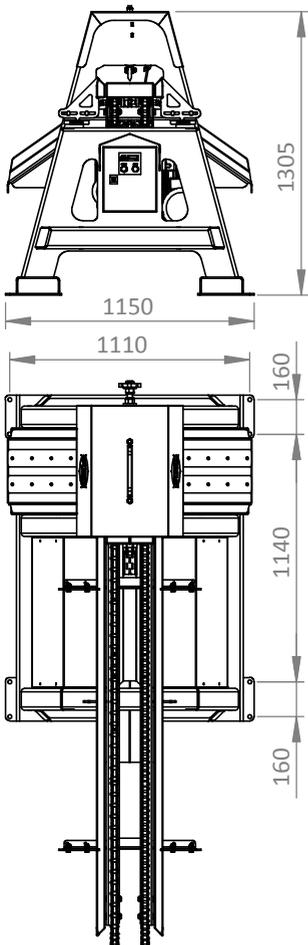
SPECIFICATIONS

Brick size range:

- Length 200 - 230 mm with standard blade and 200 -290 with optional extended blade.
- Width(double unit) 180 - 290 mm
- Height 60 - 130 mm.

Electric connection

The two motors are 3 phase units , but are being converted to single phase by VSD components. For ease of use, and mobility, it gets plugged into an ordinary single phase 15 amp plug circuit.



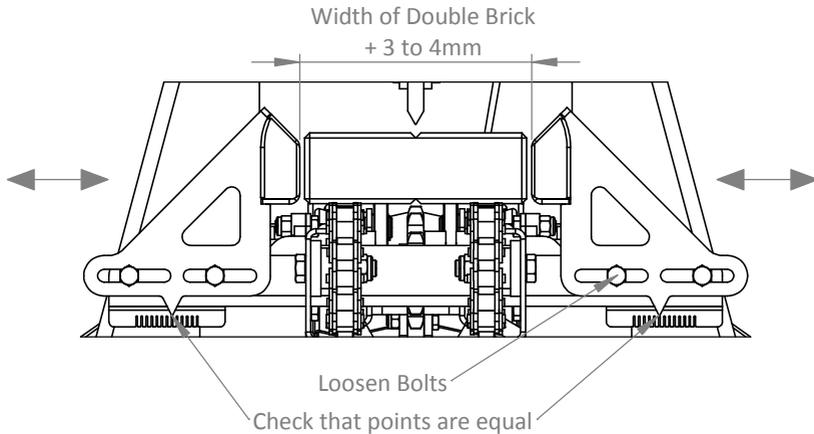
SETUP

The splitter must be setup for each product.

To ensure that it splits the product in two equal size units, it is important that the guide rails be positioned correctly.

To adjust the guide rails, loosen the bolts that position them and move them closer or further apart to allow approximately 3-4 mm larger opening than the width of the double brick.

There are indicator markings on the slides to assist equal symmetrical positioning as well as parallelism.



The top blade is stationary, whilst the bottom blade moves up and down to create the split action.

The stroke on the bottom blade is approximately 20 mm and cannot be adjusted.

To ensure proper penetration, the top blade must be adjusted up or down to accommodate the brick height.

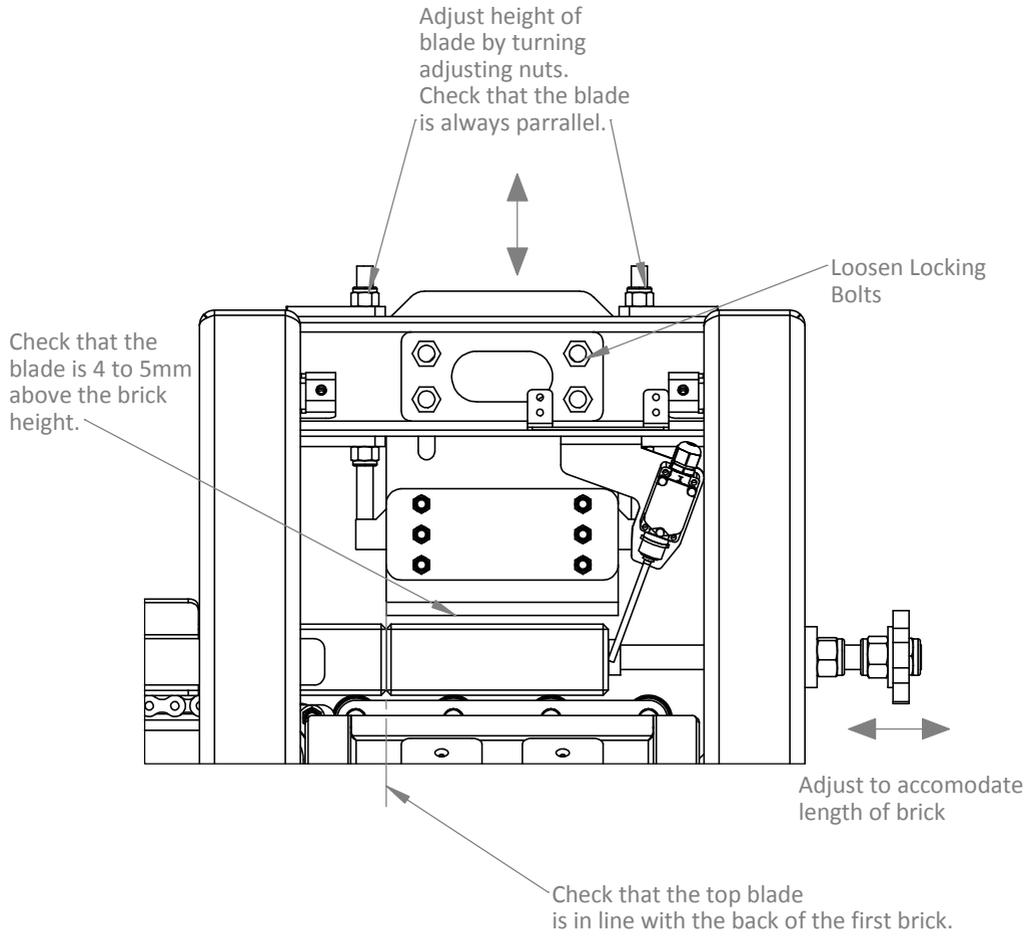
To adjust the top blade, remove the top cover by unscrewing the two top nuts holding it in position. Beneath the top cover, there are two adjusting bolts on either side of the blade with lock nuts. The blade can be adjusted by using these nuts.

Before adjusting the top blade, make sure the four bolts locking the blade are loosened.

It is important to adjust the top blade with a clearance of approximately 4-5 mm above the brick height to avoid the bricks touching the blade when pushed into position.

Please ensure that the top blade is set parallel to the bottom blade.

Lock all the bolts and nuts and replace the top guard before operating the splitter.



To setup the splitter to accommodate the length of the brick, the stopper (big nut at back) must be adjusted to ensure that the whole brick is covered by the blade.

Please ensure that the next brick in line is not partly under the blade, as it will damage or chip it.

OPERATING PROCEDURE

Plug the splitter into a single phase 15 amp plug point and switch on.

Press the START button on the control box.

The chain will immediately start, and will continue to run until the limit switch, which sits near the back of the blade, is activated.

Once the limit switch is activated, the chain will stop, reverse briefly to remove the next brick in line, and stop.

The bottom blade will then move up, split the brick, move back to its bottom position and stop. The split bricks will slide out through the side chutes, clear the limit switch, and the process will repeat itself.

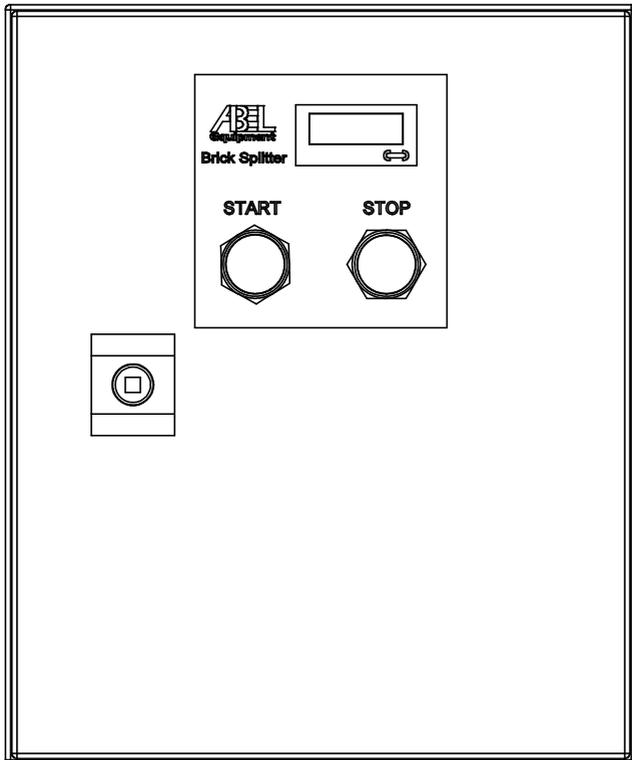
The splitter will go into sleep mode if not active for a couple of minutes.

The start button must be pressed again to reactivate the splitter and start the chain.

The splitter is fitted with an overload device.

Should it happen that a foreign object jams in between the blades, and it cannot complete its cycle, the splitter will stop, reverse to the bottom and wait for the object to be removed.

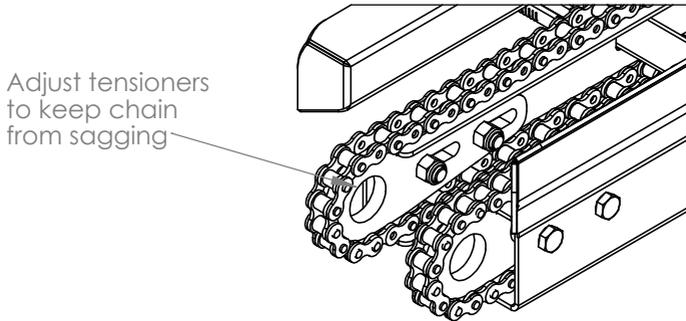
Once removed it can be started again



MAINTENANCE

The conveyor chain tensioners at the in feed side of the conveyor can be adjusted to keep the chains from sagging around the sprockets.

Please ensure that the tensioners are properly lined up with the wear strips at the top when tightening them.



There are only two flange bearings with grease nipples on the drive end of the conveyor. They should be greased weekly. All other moving parts are fitted with sealed bearings.



Inspect the blades on a regular basis to ensure their sharpness.

They are made of hardox steel and should be removed from time to time and machined to retain their shape.

The splitter will create a fair amount of dust and loose cement particles.

It is recommended that it be cleaned with compressed air on a regular basis, and preferably no oil or grease on the chains, as it will create grinding paste.

SAFETY

The splitter has moving components.

Please ensure that no loose clothing is near the chain or splitting mechanism.

Never stick your hand in between the blades, unless you are sure the machine is off.

As the splitter creates flying particles when splitting bricks, it is recommended that all operators wear safety glasses.

Please ensure that all covers are secure while in operation.