



Protect Your Equipment Investment

Available for *CBI & Competitive Grinders*

CBI Metal Detection System™

How It Works

- Metal Detection System protects rotor, anvil, and screens
- Impact sensors detect tramp metal
- Feed roll lifts
- Feed system reverses
- Optionally: anvil & screen frame opens in less than 1/2 second allowing tramp metal to eject (see reverse side for details)
- Engine goes to idle
- Machine shuts down
- Following inspection, operator restarts and pushes reset function to resume production



Description

The CBI Metal Detection System™ is setting a completely new industry standard. Carefully placed impact measuring sensors detect if a rotor tooth strikes tramp metal. The sensor quickly communicates with the machine's main control system, telling it that metal has been detected. The controller immediately reverses the feed system and throttles down the engine. Depending on the severity of the impact (and the option selected for your CBI grinder) the system hydraulically opens the anvil/screen frame assembly at an extremely high rate of speed without even requiring an actual impact against anvil or screen — thereby allowing a safe ejection of the tramp metal and minimizing potential damage. The sensitivity of the system is easily adjustable by the operator on the machine control panel.

Available in Two Versions

Protecting a capital equipment investment is critical to all businesses regardless of which brand of machine they're running. That's why we have decided not to limit the availability of this cutting-edge technology to only CBI customers. Instead, there are versions of the CBI Metal Detection System suited to new CBI machines, older CBI machines and even the machines sold by our competitors. One of the following will work for you.

① Factory Installed

- Available on all new CBI Machines
- Electronics are factory installed in main control panel
- Sensors are factory installed on machine

② After-Market Kit

- Available for all CBI machines
- Can be easily adapted to most of our competitor's grinders (single 24 VDC output provided for these applications)
- Kit includes all necessary electronics

Both Systems Designed to:

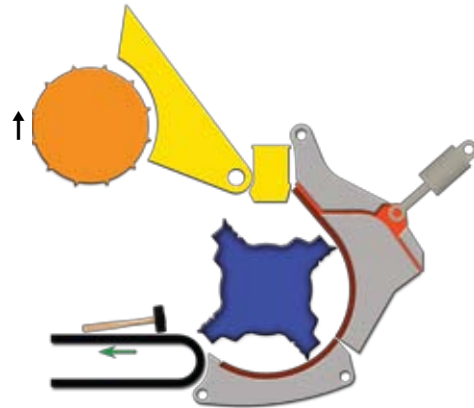
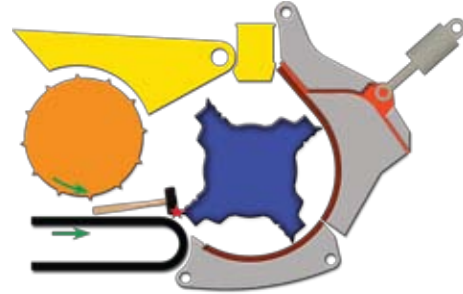
- Sense Metal Impact
- Reverse Feed System
- Lift Top Feed Roll
- Reduce Engine Speed
- Disengage Clutch
- Shut Down Engine



Happens simultaneously within 1/2 second

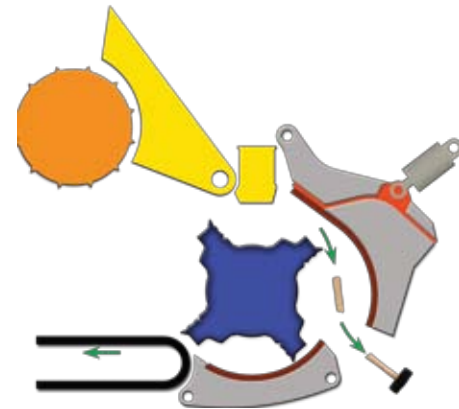
Tramp metal impact is detected with an electronic sensor.

Feed system immediately reverses and engine is brought to an idle. Feed roll lifts. Clutch remains engaged until engine idles, allowing engine to act as break.



Rapid Release Feature*

Anvil and screen frame opens in less than 1/2 second to allow tramp metal to safely eject. Following inspection, operator pushes reset function to resume operation.



** This Rapid Release Feature is available only on CBI Magnum Force 6800B & 8800 Series. All other machines come standard with our dependable shear-pin protection that is now enhanced by the MDS system.*



Fuel the Future.™

Continental Biomass Industries, Inc.

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