CONTAMINATE DETECTION SYSTEM

Machine in Grinding Mode

Contaminate Detected Mode

Logic

Contaminate Detection System

Diamond Z — A DIVISION OF RULE STEEL

Contaminate Detection System

➤ One of the most common concerns in the back of every operators mind when operating any high speed hammer mill is <u>contaminant impact!</u>

➤ No matter how experienced and attentive you are we can all miss immediately reversing the feed after the initial impact of a large foreign object.

➤ The ability to react instantaneously can make the difference between no damage at all or a major repair.

Contaminate Detection System

Contaminate Detection System

➢ This contaminate detection system allows the operator to adjust the sensitivity of just how reactive the system is. The system detects high frequency impact resonation with in the grinding chamber and in turn stops the in feed when an unacceptable impact level is experienced flashing a warning screen and stopping and reversing the feed.

➢ The operator must then physically walk up to the machine and reset the feed thus promoting the removal of any remaining contaminate.

➢ This unique detection system is integrated right into the Diamond Z standard Z Logic machine control system with no need for additional complication. It can easily be applied on any machine equipped with the Z Logic control system.
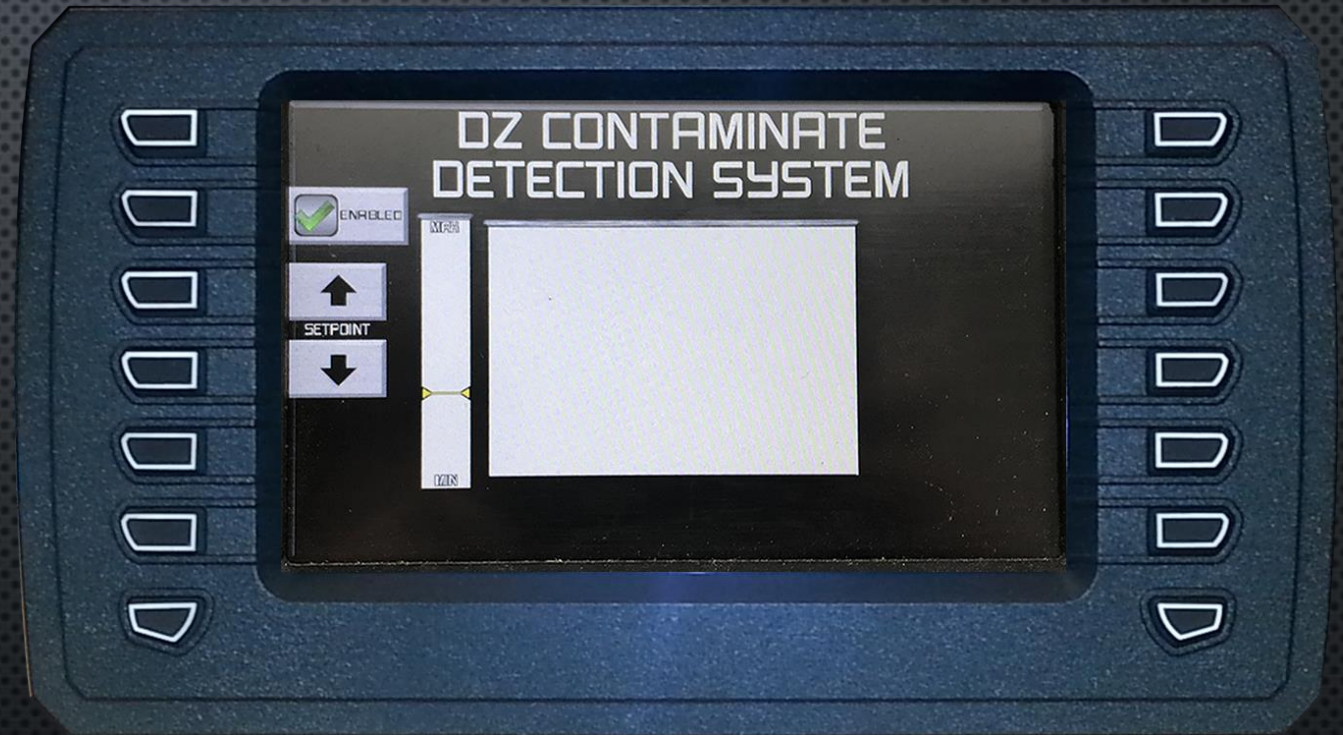
VIBRATION SENSOR

➢ Magnetically mounted directly below the mill bearing mill area Providing the best location for immediate feedback.
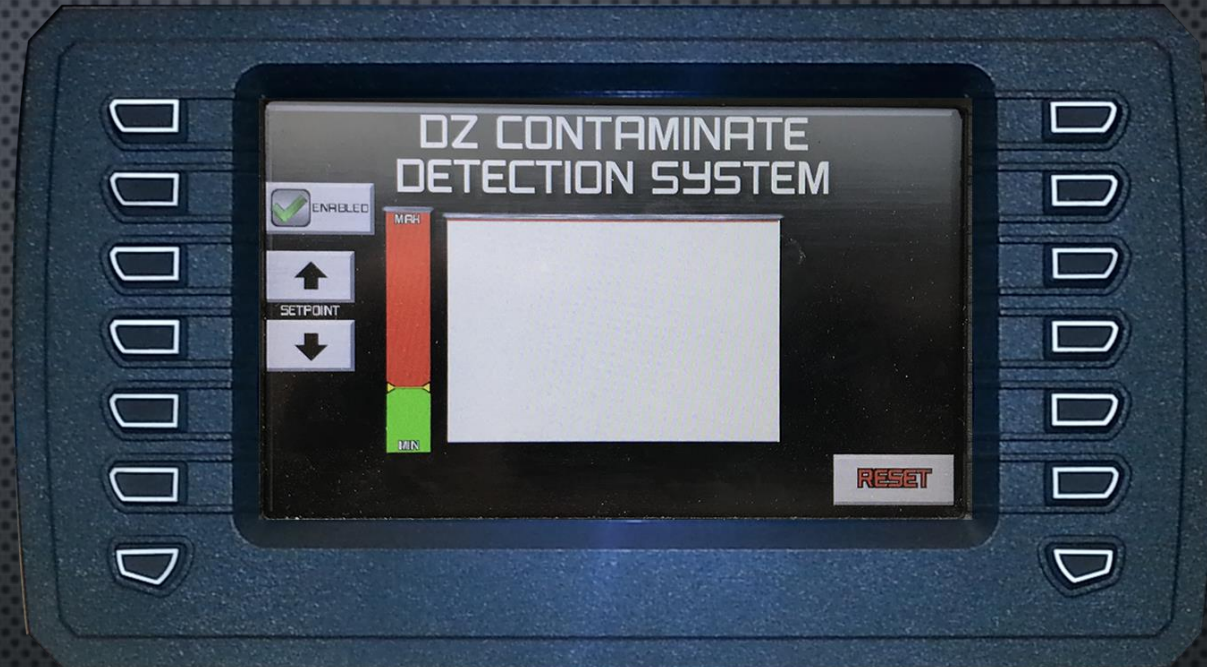
ADJUSTABLE SENSITIVITY SET POINT

➢ The operator has the ability to fine tune just how sensitive and reactive the system will function.

➢ He can also enable or disable this option with a operator password

CUSTOMIZABLE CONTROLS

➢ Enable/Disable

➢ Sensitivity Set Point

➢ Manual System Reset Button

➢ Color code reactive slide bar illustration current level of impact

REAL TIME OPERATING DATA

➢ These screens show a Thirty Second Historic Snap shot

The system can also be set up to count ever event exceeding the set point

CONTAMINATE DETECTION EVENT!

➢ Feed backs up for .5 seconds

➢ Screen flashes warning

➢ Engine Idles down

➢ Machine will not resume grinding until it is reset on the screen control