

VORTI-SIV

MEDIA RECLAMATION CASE STUDY

THE APPLICATION

The reclamation of worn grinding beads used in vertical or horizontal mills, ball mills, Attritors or similar types of equipment. The media is typically ceramic, steel, glass, etc.

THE PROBLEM

As media wears or gets smaller, the level of the media in the mill slowly decreases. This media level is directly related to milling efficiency. Periodically small portions of new media are added to the mill to keep the mill operating efficiently. This is called "topping off". Over time, there is a wide distribution of grinding media in the mill. Some beads are full size or new; some are partly worn or slightly smaller & some are extremely worn or very small. The smaller sizes fill the voids between the new beads. This causes: an increased bead wear rate causing new media to wear faster; increased wear rate on mill parts; worn media retention devices such as screen or slot gaps become clogged.

THE SOLUTION

Our pilot/small production Model RBF-15. This standard explosion proof unit gyrating at 3450RPM effectively separates the media at rates from 200–400 lbs./hr. at 1mm.

THE BENEFITS

Portable Sieve –

The RBF-15 caster mounted unit is easily rolled from mill to mill or to the reclamation site.

Efficiency –

A full or half scroll mounted to the screen ensures maximum separation efficiency.

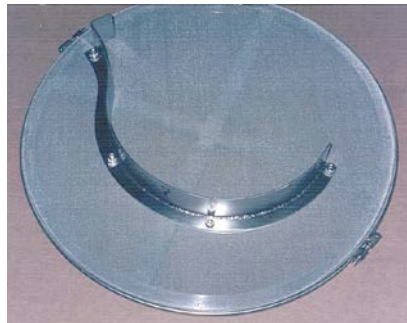
Optional Media Wash System –

The stainless steel scoop feed cover of the RBF-15 is available with a water or solvent cleaning nozzle system to wash the media before reclamation.

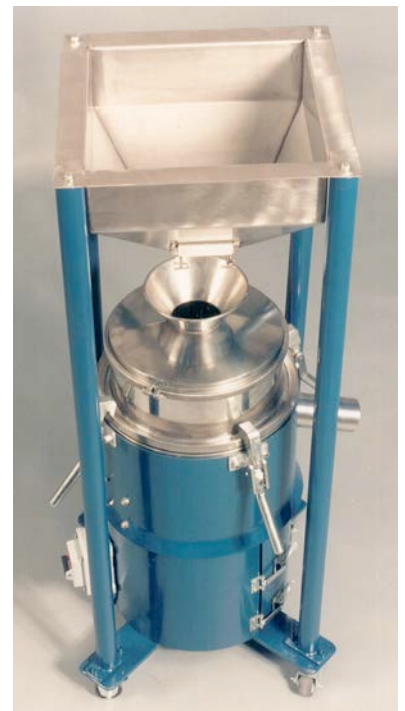
Cost Savings –

If the still good media is efficiently separated from the worn media, a significant cost savings is achieved. New mill media is typically \$3 – \$10 per pound. Good media may be as much as 60% of the successfully reclaimed batch.

RBF-15 screen element with mounted half scroll. →



Model RBF-15 with stainless steel self-feed hopper. (50 to 500 pound capacity) →



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