

The Application

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

The Problem

The level of the media in the mill slowly decreases as the media wears. 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 negatively causes an increased bead wear rate resulting in new media to wear faster, increased wear rate on the mill parts and worn media retention items such as screen or slot gaps become clogged.

The Solution

VORTI-SIV pilot/small production Model RBF-15 with a 15" or 400MM screen dia. This high speed single or double-deck screen unit gyrating at 3450RPM effectively separates IMM media at rates from 200-400 lbs./hr. for example. A larger mesh opening top screen deck is used to pre-screen or remove pieces of debris.

The Benefit

Portable Sieve/Efficiency

The RBF-15 caster mounted unit is easily located from mill to mill or to a fixed reclamation site.

A partial welded Weir or half scroll mounted to the screen ensures maximum separation efficiency (See photo on back).

Optional Hopper Feed System

An all stainless steel custom sized sloped feed Hopper with a vibrating motor is mounted directly above the sieve unit. The Hopper discharge outlet with valve is directly connected to the inlet cover of the RBF-15 with a flexible boot. This enables dust free recovery process.

Cost Savings

If the still good media is efficiently separated from the worn media, a significant cost savings is achieved. Typically 50% to 60% of good media is successfully recovered.



**Model RBF-15
with vibrating Feed Hopper**



VORTI-SIV®
A DIVISION OF

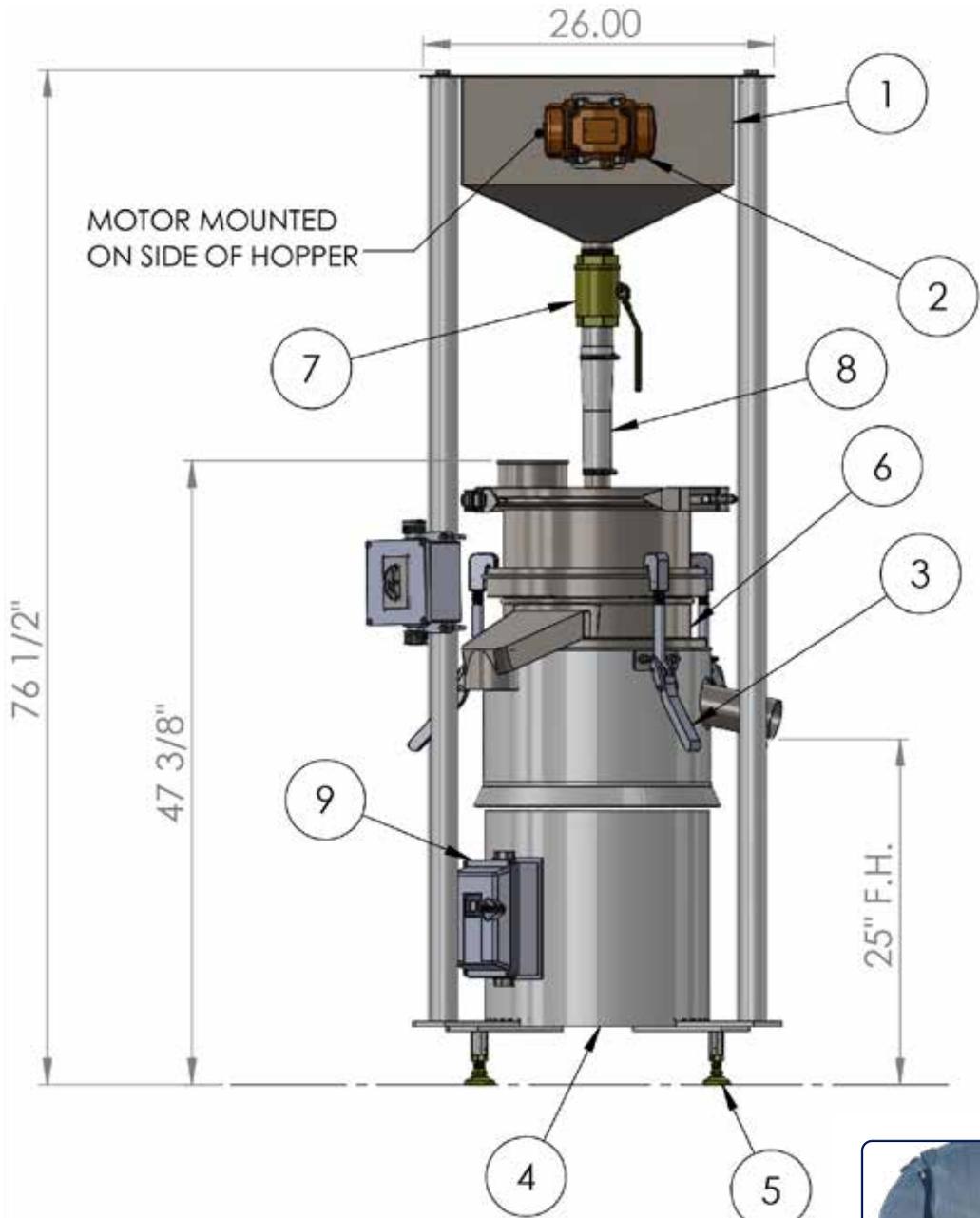
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MEDIA SIEVE COMPONENTS



Model RBF-15
screen element with 1/2 scroll

ITEM	DWG. NO.	QTY.	DESCRIPTION	REMARKS
1	MSH	1	REMOVABLE HOPPER	STAINLESS STEEL
2	.	1	VIBRATOR, ELECTRIC MVSI 36-380 W/ STARTER BOX	
3	050-PW-8	3	DOUBLE DECK PAN CLAMPS	
4	RBF-15T-2	1	BASE UNIT	
5	.	4	LEVELING FEET	
6	B1000-15-E8	1	CONTACT PARTS	STAINLESS STEEL
7	.	1	2" MANUAL BALL VALVE	
8	.	1	BOOT, 2 3/8" TO 2" 10" LG.	RUBBERIZED NYLON
9	15016-1	1	MOTOR STARTER	
10	SK20155F1C-1	1	REMOVABLE COVER W/ DUST CAP	STAINLESS STEEL

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:
 MATERIAL:
 FINISH:
 DO NOT SCALE DRAWING

NAME: JDF
 DATE: 04/17/20

CHECKED:
 ENG APPR:
 MFG APPR:
 Q.A.
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VORTI-SIV

TITLE: MEDIA SIV DIMENSIONAL DWG DETAIL

SIZE DWG. NO. REV
A MSMA

SCALE: 1:15 WEIGHT: SHEET 1 OF 1