Bradley PULVERIZER

LOUVER RING RETROFIT

FOR IMPROVED EFFICIENCY OF VERTICAL ROLLER MILLS

UNDERSTANDING THE IMPORTANCE OF THE LOUVER RING

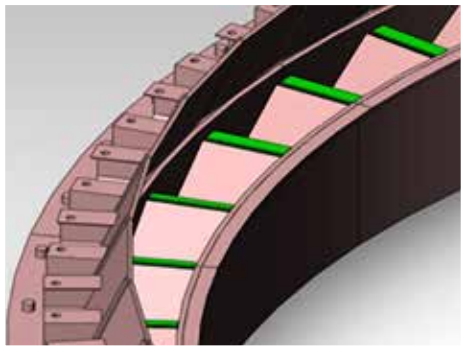
The design of the louver ring and armor ring plays a significant role in the performance of vertical roller mills. As the first classification stage takes place just above the louver ring, proper louver ring assembly should:

- ☐ GUIDE FLOW AT UPWARD INCLINE WITH ARMOR RING
- ☐ DIRECT LARGE PARTICLES BACK TO TABLE
- ☐ DISTRIBUTE FLOW EVENLY AROUND TABLE
- ☐ MINIMIZE PRESSURE DROP
- ☐ MINIMIZE HIGH LOCALIZED WEAR
- ☐ MANAGE REJECT MATERIAL STREAM

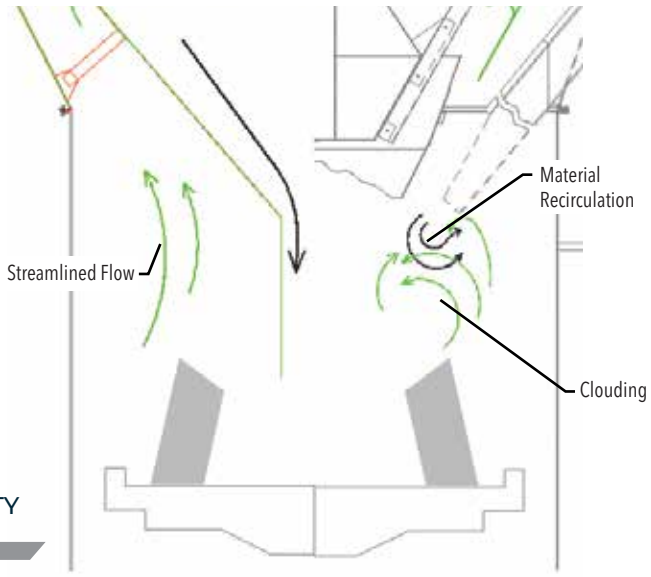
BRADLEY LOUVER RING RETROFIT SOLUTION

The Bradley Enhanced Louver Ring is designed for increased capacity and power reduction through improved grinding efficiency. To optimize results from a vertical roller mill, uniform gas flow distribution across the mill and classifier at any level is essential.

TYPICAL LOUVER RING DESIGN



BRADLEY ENHANCED LOUVER RING DESIGN



With Louver Ring Retrofit

Without Louver Ring Retrofit

ADVANTAGES OF EXTENDING THE GRIT FUNNEL AND ADDING SKIRTING TO PROFILE AIR VELOCITY

LOUVER RING RETROFIT
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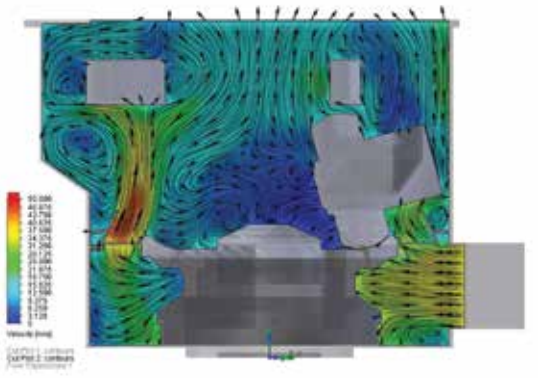
CONVENTIONAL LOUVER RINGS VS. BRADLEY ENHANCED LOUVER RING

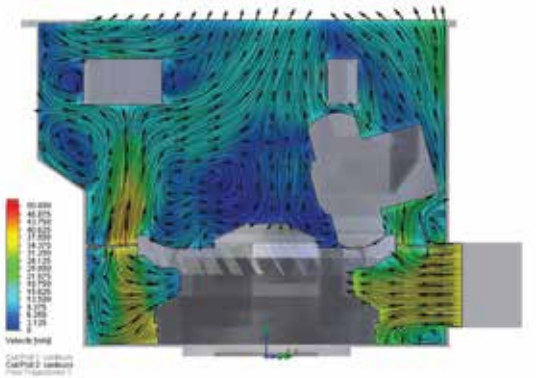
Conventional louver rings cannot equalize pressure and flow around the table. The unique Bradley Enhanced Louver Ring design regulates flow around the table to match the demands of the mill resulting in *efficient operation* and *higher production rates*.

	CONVENTIONAL	BRADLEY
WEAR ON MILL BODY & INTERNALS	↑	↓
INTERNAL RECIRCULATION	↑	↓
FAN DRIVE POWER	↑	↓
OPERATING COSTS	↑	↓
PRODUCTION RATE	↓	↑

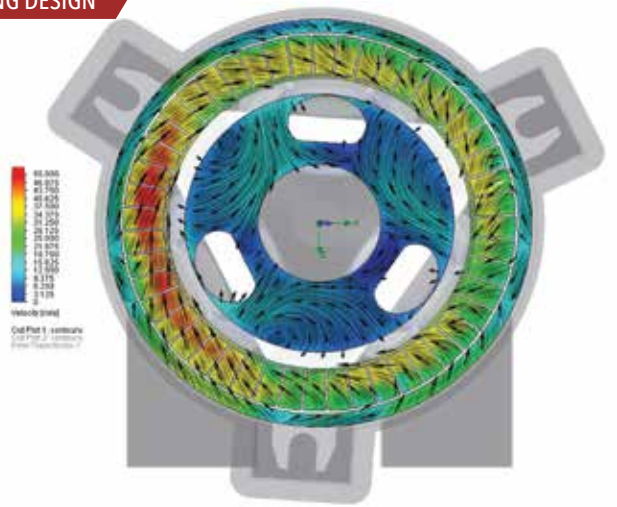
CFD DIAGRAMS OF LOUVER RING MODIFICATIONS

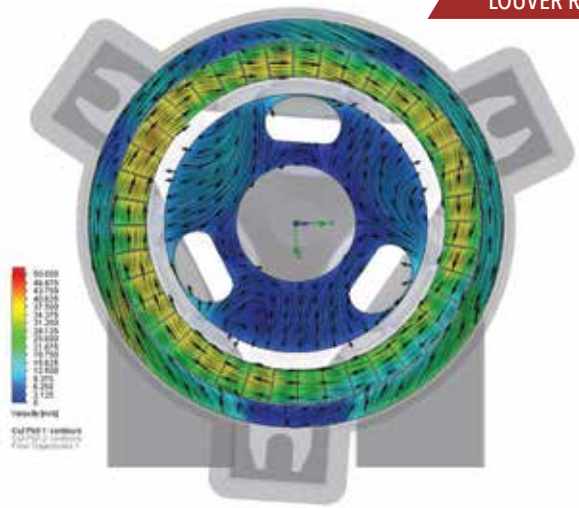


CONVENTIONAL LOUVER RING DESIGN



BRADLEY ENHANCED LOUVER RING DESIGN





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