



"LIBERATING VALUE FROM TAILS"

Commett

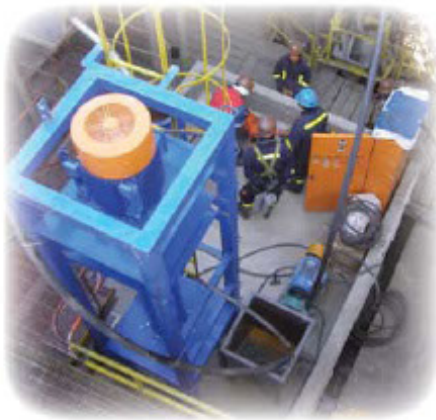
**HIGH INTENSITY GRINDING AND MICRONIZING
OF MINERALS USING THE COMMETT
VERTICAL MILLING TECHNOLOGY.**

APPLICATIONS

THE COMMETT VERTICAL FINE GRINDING MILL IS IDEALLY USED IN TERTIARY GRINDING CIRCUITS AND FOR MICRONIZING MINERALS:

GOLD
PLATINUM
COPPER
NICKEL
COAL
MANGANESE
CALCIUM
IRON

NICHE MARKETS
MILLING IN CYANIDE
FLOTATION CIRCUITS



**50 L COMMETT MILL IN
SILVER/GOLD CIRCUIT**

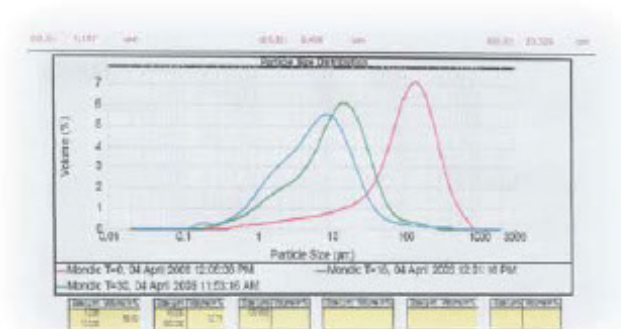
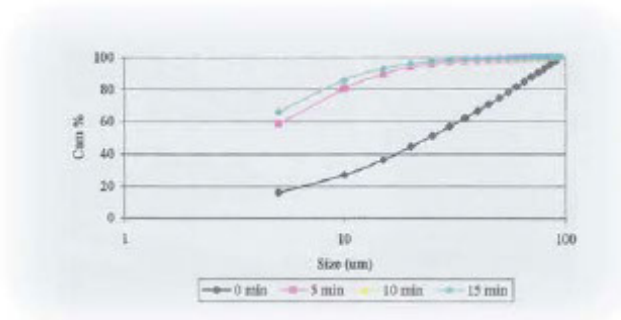


**50 L COMMETT MILL
OVERFLOW**



**1000 L VERTICAL
HIGH INTENSITY MILL**

TYPICAL COMMETT GRINDING CURVES



THE COMMETT MILL CONSISTS OF A POLYURETHANE LINED BARREL WITH A SOLID POLYURETHANE INNER DRUM WHICH ROTATES BETWEEN 10 - 14 METERS PER SECOND PERIPHERAL SPEED.

THE SOLID INNER DRUM ACTS AS AN IMPELLER WHICH DRIVES THE GRINDING MEDIA AND SLURRY IN CIRCULAR MOTION.

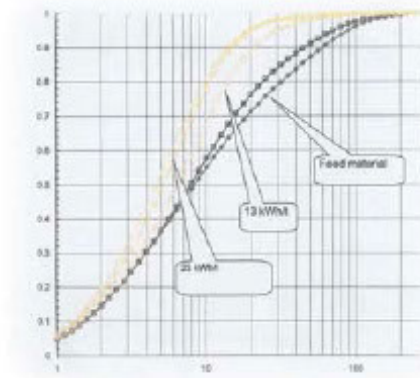
HIGH DENSITY CERIA STABILIZED CERAMIC BEADS ARE USED WITH A HIGH SPECIFIC GRAVITY (6.0 - 6.2)

THE COMBINATION OF SLURRY AND HIGH DENSITY BEADS PROVIDE FOR A COMBINED DENSITY WHICH ALLOWS FOR HIGH INTENSITY GRINDING AT HIGH SPEED WITHOUT EXPELLING THE SLURRY FROM THE MILL.

THE ROTATING MOTION CAUSES ORBITAL GRINDING BETWEEN THE BEADS, BEADS ARE TYPICALLY IN THE 2 - 4MM DIAMETER SIZE RANGE.

TYPICAL POWER CONSUMPTION IS 15 - 20 KWH/T AND BEAD CONSUMPTION 20 -30 G/T MILLED.

2L PILOT MILL



PSS TEST FACILITY

STANDARD SIZING AND TYPICAL THROUGHPUTS IN TERTIARY GRINDING CIRCUITS:

GRINDING FROM D50 - 75 MICRON - P80 - 10 MICRON

<u>MILL SIZE</u>	<u>DRIVE</u>	<u>THROUGHPUT</u>
2L	3 KWATT	TEST WORKS
10L	11 KWATT	0.05 - 0.1 TPH
15L	18 KWATT	0.2 - 0.3 TPH
25L	25 KWATT	0.5 - 0.7 TPH
50L	40 KWATT	1 - 1.5 TPH
100L	80 KWATT	1.5 - 3.0 TPH
250L	150 KWATT	4 - 5 TPH
250L	250 KWATT	10 - 15 TPH
500L	440 KWATT	20 - 30 TPH
1000L	750 KWATT	50 - 70 TPH
2000L		



PARTICLE SEPARATION SYSTEMS MILLING (PTY) LTD DETAILS

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