



Mineral Process Control (MPC) Pty Ltd



Fast, High-Quality, Low-Cost, Onsite Gold Assays

With MPC's PAL1000

MPC's PULVERISE AND LEACH machine can simultaneously pulverize and leach a batch of 52 large (~1kg) samples enabling gold assays to be obtained within two hours of samples arriving at the laboratory.

If this would be of benefit to you then please visit www.mpcwa.com

Technical Notes

The machine contains 52 steel pots, each having the capacity for about 1kg of sample plus 1.5L water and 2kg grinding media.

Samples are completely pulverised (typically better than 90% $-75\mu\text{m}$) and simultaneously leached with cyanide and LeachWELL in less than an hour.

Slurry samples are taken and the solution is analysed for gold by AAS. The pots and grinding media are then washed and the grinding media replaced. Water, the next sample and two Assay Tabs are added to each pot and the procedure is repeated.

Total turnaround time can be as low as 1.5 hours.

ONE MACHINE IS CAPABLE OF PROCESSING between 400 and 500 SAMPLES PER 12 HOUR SHIFT.

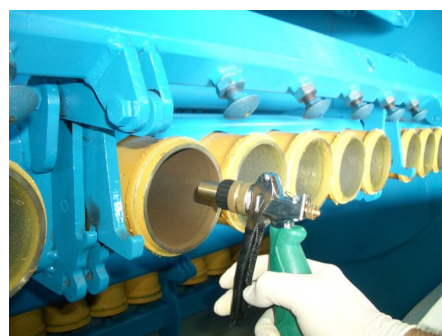
The emphasis on pulverising the entire sample is removed in most cases because such a large sample is assayed, not just prepared.

To reduce turnaround times, moisture determinations may be done in parallel using smaller splits.

Machine speed, grinding media charge, cycle times, reagent dose and sample size can all be varied to suit sample types.

The machine is fully enclosed for safety and quieter operation and cannot be started until the front doors are closed.

Operating parameters for each cycle are fully programmable.



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