



eHPCC proof of concept reduces lump rock to microns in one machine

Aussie mechanical engineer (mining and minerals), challenges conventional comminution by combining HP rolls, HP intense attrition and classification.

ADELAIDE, SOUTH AUSTRALIA, AUSTRALIA, June 27, 2014 /EINPresswire.com/ -- Early this week,



grind more with less
JTG Consultants Pty Ltd

JTG Consultants Pty Ltd (JTG), announced proof of concept of eccentric-high-pressure-centrifugal-comminution ([eHPCC](#)). They claim it will grind more with less. eHPCC is a likely efficient method of reducing lump rock to microns in one simple machine, challenging conventional crushing and grinding circuits renowned to be extremely inefficient. It was

conceived and developed by a mechanical engineer with +20 years mining and mineral processing experience. Apparently, in recent years, industry has studied combinations of machines utilizing high pressure rolling surfaces and high intensity attrition, demonstrating improved circuit efficiencies of up to 40%; eHPCC combines these comminution types into one simple machine, and has potential uses in many industrial sectors including cement, precious metals, base metals, fertilizer, solid fuels etc. Proof of concept was achieved with a 45kW 350mm diameter pilot machine, grinding 5 to 20mm granite to microns. Different machine configurations were tested and reported, both wet and dry, and with and without grinding media. The most extreme rudimentary test-work so far has produced particle size distribution with 90% of product less than 500µm. This was achieved autogenously (without grinding media). Performance and efficiency test-work will be conducted in coming months after the machine is upgraded with roller bearings.

JTG believe presently available, commercialized and proven technology in the market will facilitate rapid scaling up and commercialization of eHPCC. They have confidence of the feed top size being scaled up in direct proportion to the geometric size of the machine without effecting product size or operating performance.

Other predicted uses of eHPCC, in addition to comminution (yet to be proven), are gangue separation, sinusoidal high pressure intense leaching and in-situ mine pre-concentration.

JTG reserve all rights to the intellectual property with patents pending. They look forward to collaborating with end users and equipment manufacturers alike.

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