MEDIA RELEASE

BROONS' UNIVERSITY COLLABORATION HELPS SAVE EXPENSIVE TYRE WEAR

Adelaide based crushing and compaction specialist, Broons, has increased its level of support to the School of Civil, Environmental and Mining Engineering at the Adelaide University to gain further knowledge on reducing tyre damage and improving tyre life using their unique Square Impact Roller.

For over a decade Broons has incorporated their innovative BH-1950MS ‘Square’ Impact Roller into the continuous improvement process at mine sites, rubbing rock on tip heads and pit floors to reduce the risk of tyre damage on haul trucks.

It is widely accepted that haul truck tyre damage can be drastically reduced, if not almost entirely eliminated, by the introduction of several small but important procedures. Prompt clean up of spillage, tip head surface management and improved running surface on haul roads all contribute to increased tyre life and a reduction in avoidable tyre damage.

A common re-active method to these issues is always operator training but a pro-active approach could be considered using Broons Square Impact Roller to rubbilise rock on tip heads and waste dumps and to improve subgrade compaction on haul roads where the vast majority of failures occur.

University of Adelaide PhD student, Brendan Scott, has become something of a national expert on the benefits of impact rolling and in the process is delivering significant savings to industry which will include extending the life of haul truck tyres.

"I've got the ideal blend of office and field-based work because I can still get my hands dirty. I undertake lecturing, mentoring under graduate students and I've been very lucky during my PhD research to gain on-site experience right across Australia quantifying the zone of influence of Broons ‘Square’ Impact Roller on a number of large civil engineering projects and mining operations. The variety of sites has given me a wealth of different experiences with different soil types and in different environments," Brendan said.

In addition to their ongoing research collaboration agreement, Broons is actively supporting five PhD students who are undertaking research into effectiveness and testing methods surrounding their unique ‘Square’ Impact Roller. The outcome of
this collaboration will result in a far greater understanding of Rolling Dynamic Compaction along with improved estimating capabilities for intended users of the unique equipment.

Nearly 100 mines throughout Australia and overseas have proven the application of the 'Square' Impact Roller in a variety of uses at their site over the last 40 years, and many have expanded their use of the roller because of its versatility and proven performance. Brendan has been involved in a significant number of these sites, and has delivered real world savings in most cases.

Towed by a 270-330hp tractor the 1.3 metre wide BH-1300HD with 12 tonne compactor module and wider BH-1950MS will compact the subgrade and provide a solid foundation on which to erect infrastructure and build haul roads.

Broons can tailor a package to suit individual mines involving wet or dry hire of their unique Australian designed and made equipment and can be contacted on (08) 8268 1988 or info@broons.com to further explain how companies can benefit from the use of this unique technology. Machines are available for rental right around Australia.