DEEP COMPACATION WITH BROONS ‘SQUARE’ IMPACT ROLLER

Broons’ ‘Square’ Impact Roller is a proven performer when it comes to minimising tyre damage on mine sites, but it's primary use has always been deep compaction. Proof rolling sites for workshops, camps, processing plants, stockpiles and drag line erection pads are several of the main applications. For close to 40 years Broons has been using their specialist equipment to fulfil the compaction needs of their mining clients around the globe.

"Improving tyre life using our ‘Square’ Impact Roller remains a strong focus for our team, but we've been providing unique solutions to compaction problems on mines since we opened our doors in 1973. A decade later in the early 1980's, we introduced the revolutionary Square Impact Roller and have never looked back when it comes to deep in-situ compaction. Put simply, our company has no equal when it comes to this market and we've completed more than 1000 projects in all corners of the world", said Stuart Bowes, Company Director.

Weakness in subgrade materials appear as surface deformation on haul roads and differential settlement under structures causing major short and long term problems. Using conventional compaction equipment to improve these materials often requires expensive boxing out and re-compaction in shallow controlled layers as even the biggest vibrating rollers are only effective to a depth of around 300mm. Broons’ ‘Square’ Impact Roller can solve this problem given it’s proven ability to improve in-situ materials to around 2m in many cases.

With just 6-10 passes of the Impact Roller applied on the surface, improvement in density can occur to at least one metre. 30-40 passes can result in significant improvement down to 2 metres and beyond in some materials. This simple and productive means of improving subgrade strength without any excavation, working straight on the surface, can offer significant savings both in time and money. Soft spots are rapidly identified which can then be treated with further use of the Impact Roller or in extreme cases, selective removal and replacement of material can be carried out.

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. Machines are available for rental right around Australia.

Broons would be pleased to discuss how mining companies can benefit from the use of this unique technology, and can be contacted on (08) 8268 1988 or info@broons.com for further information.