

PRESS RELEASE

Full range of wear solutions for materials-handling applications

4 April 2018: From impact to sliding abrasion, Rio-Carb has a full range of wear solutions for a range of materials-handling applications.

The wear-engineering specialist can become involved as early as the design stage in order to ensure that all operating conditions and parameters are catered for, explains Director **Sias Suurd**. This ranges from installing sacrificial surfaces (liners) to replaceable parts (maintenance). Materials range from Chromium Carbide (CrC) overlay plate to high-impact plate, 400 and 500 Brinell material and most recently, ceramics.

CrC overlay plate comprises a ductile and weldable backplate, a quality-controlled fusion zone, and a hard chromium carbide overlay. It is an ideal wear-resistant material for chutes, cyclones, skips, feeders, crushers, dozers, haul trucks, excavators, and draglines.

Fastening methods range from countersunk bolts with hard-faced bolts to stud welding. The latter involves flash welding for half-a-second, a 15° bend test demonstrating the strength of the stud (M16), nuts and washers to finish the studs, and positioning within 1 mm for easy finishing.

In addition, Rio-Carb can even offer hybrid liner packages for applications as diverse as dozer blades and haul trucks. The former involves 3D scanning of earthmoving equipment and custom designs as per client specifications. Hybrid liners can combine Brinell 400 and 500, CrC, and manganese impact plate.

Rio-Carb also offers a modular chute concept to eliminate health-and-safety risks associated with liner maintenance. Modular chutes are more easily transportable, with a 30% weight saving. Liner wear can be measured externally by means of an ultrasonic thickness tester. Chutes can be designed from standard-size wear panels, which reduces the number of parts required and subsequent stockholding.

“Our innovations such as our modular chutes to our hybrid liner packages, upgraded liner packaging, and entry into ceramics is part of a renewed focus on A-to-Z wear solutions for diverse applications and industries,” Suurd concludes.

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Notes to the Editor

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About Rio-Carb

Rio-Carb manufactures wear-resistant Chromium Carbide (CrC) clad liner plates for heavy materials-handling applications in the mining and allied resources industries. With more than 30 years’ experience, the company’s long-life CrC liners have eight to ten times the wear life of industry-standard 400 and 500 BHN steel materials, which reduces operational costs dramatically due to less

downtime and change-outs. Rio-Carb has a deep-rooted history in mining, and is able to respond to customers' needs swiftly in providing cost-effective solutions.

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