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SEPTEMBER 21, 2008

BROCO[®], INC./RANKIN[®] INDUSTRIES
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RANKIN[®] AUTOMATION DEBUTS
MANUAL VIBRATORY CARBIDE FEEDER AND
SINGLE AXIS AUTOMATED HARDFACING MACHINE AT MINExpo 2008

RANCHO CUCAMONGA, CA (SEPTEMBER 21, 2008) – Rankin[®] Automation brings the mining industry extraordinary efficiency in making uniform tungsten carbide deposits for extreme wear resistance and hardfacing applications with the debut of the Manual Vibratory Carbide Feeder and the Single Axis Automated Hardfacing Machine. The systems support effective utilization and extended wear of ground engagement and heavy wear parts including cone and gyratory crushers, wearplate, teeth and adapters, buckets and drag line shovels, and scraper edges, lips, and sidebars. The Manual Vibratory Carbide Feeder and Single Axis Automated Hardfacing Machine debuted at the MINExpo in Las Vegas this week.

Manual Vibratory Carbide Feeder is simple to operate and provides a unique handheld, automated feeder for all grades of tungsten carbide. It offers:

- tungsten carbide concentration up to 75 percent
- unprecedented part life
- less carbide dilution
- high, fast deposit rates
- thicker deposits for longer life
- lightweight and portable
- integration with virtually all MIG wire welding machines

Components include:

- Large volume carbide hopper
- vibratory feeder assembly
- aluminum metering funnel
- 4” metering tube with collar
- 6” short guide tube with clamp for gun mounting
- 115 VAC line cable with three prong plug
- remote control pendant
- and 5’ 0f .625: I.D. drop hose

The systems now offered by Rankin Automation range from the light and portable Manual Vibratory Carbide Feeder to heavy duty automated systems including the new Single Axis Automated Hardfacing Machine.

The Single Axis Automated Hardfacing Machine is an automated system for applying hardfacing overlays and for the bulk feeding of all grades of tungsten carbide. The wire feeder is designed to fit standard wire diameters of .035", .045", and 1/16", and rollers are available to accommodate a range of wire sizes up to 1/8".

The **Single Axis Automated Hardfacing Machine** offers:

- virtually impenetrable deposits of up to 80 percent concentration of the desired mesh of tungsten carbide
- unprecedented protection against abrasion
- Repeatability and consistency of deposit
- multiple weld layer application
- high deposition rates
- easy operation

Components include:

- wire feeder
- 600 amp air-cooled MIG torch, 800 amp water-cooled torch available
- sine wave oscillator
- manual 6" vertical and horizontal adjusters
- variable speed travel carriage operating from 2 to 45 IPM
- lightweight 10' beam assembly providing 8' net travel, 4' and 6' extensions available
- vibratory feed system
- proximity sensor control for stitch welds and automatic stop feature
- up to 60(lbs) spool holder
- adjustable stand
- easily-operated control panel with 4 push button switches and 3 single turn speed control pots

The Rankin Automation line includes portable to heavy duty, as well as single weld head to multiple weld head systems for automated application of hardfacing. Rankin Automation also offers the capabilities to manufacture custom machines. Products are made in the U.S.A.

Rankin Automation manufactures and distributes automated hardfacing systems worldwide. Rankin[®] Industries is a designer and manufacturer of a full range of build-up and hardfacing products and specialty alloys. Broco[®], Inc. is the world leader in exothermic cutting and underwater welding systems. Strong Welding Products[®], Inc. offers a selection of cost-effective welding products. Rankin and its sister companies serve industrial maintenance and repair market. Corporate headquarters is located in Rancho Cucamonga, California and products are available through a global distributor network. Visit www.Brocoinc.com for more information.

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