

Missouri Asphalt Pavement Association Annual Conference January 14, 2015

Future of Equipment and Asphalt Plants

Jeff L. Richmond, Sr. President, Roadtec, Inc.

































































Silica Milling Machine Partnership



Partnership Background

- NIOSH, realizing the success of the NAPA asphalt paver fumes partnership and the NAPA drive for worker health and safety, presented the industry with a new challenge as it pertains to silica emissions around milling machines.
- NAPA accepted the challenge to address silica/dust generated by milling machines.
- In 2003 the NAPA Silica Milling Machine Partnership was formed.
- The Partnership members were selected and the goals were established.





Partnership Team

Contractors

- Payne & Dolan, Inc.
- •E & B Paving, Inc.

Manufacturers

- •Roadtec, Inc.
- Wirtgen America
- Caterpillar
- Volvo
- Bomag
- Terex
- Dynapac





Partnership Team

Associations

- •NAPA
- •AEM

Labor

- •IUOE International Union of Operating Engineers
- •LIUNA Laborers International Union of North America





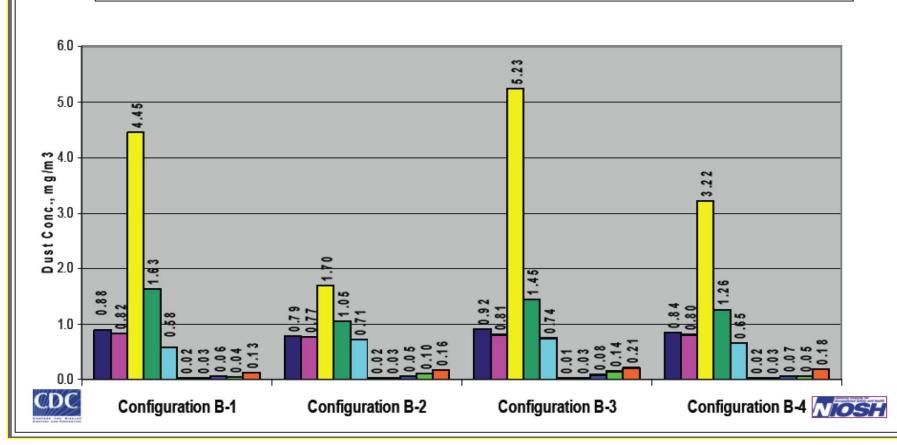




Comparison of Respirable Dust Concentrations for Three Water Spray Systems Tested on Monday, June 23, 2008 — *DRAFT*

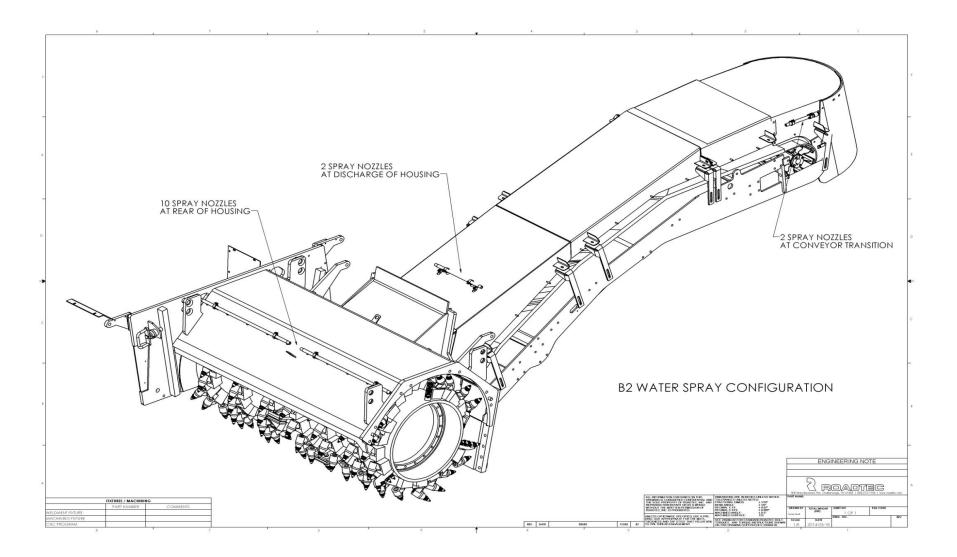


Opr Right Conv Top Rt Conv Right Drum Front Rt Drum Back Rt Opr Left Conv Top Lft Conv Left Drum Front Lft Drum Back Lft







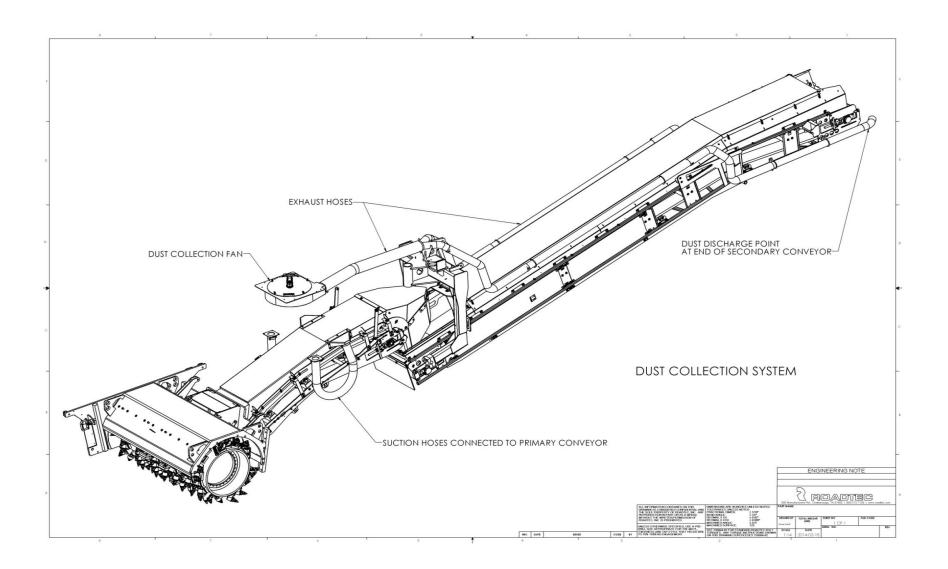
































Autotracking System





- System sensor
- Mounting bracket hangs off of the C3 conveyor
- Sensor points towards either the back wall of the paver's hopper or smooth surface on hopper insert



Autotracking System





- Pendant stays with paver operator
- Swings C3 to the right or left
- E-stop turns the Autotracking off/on











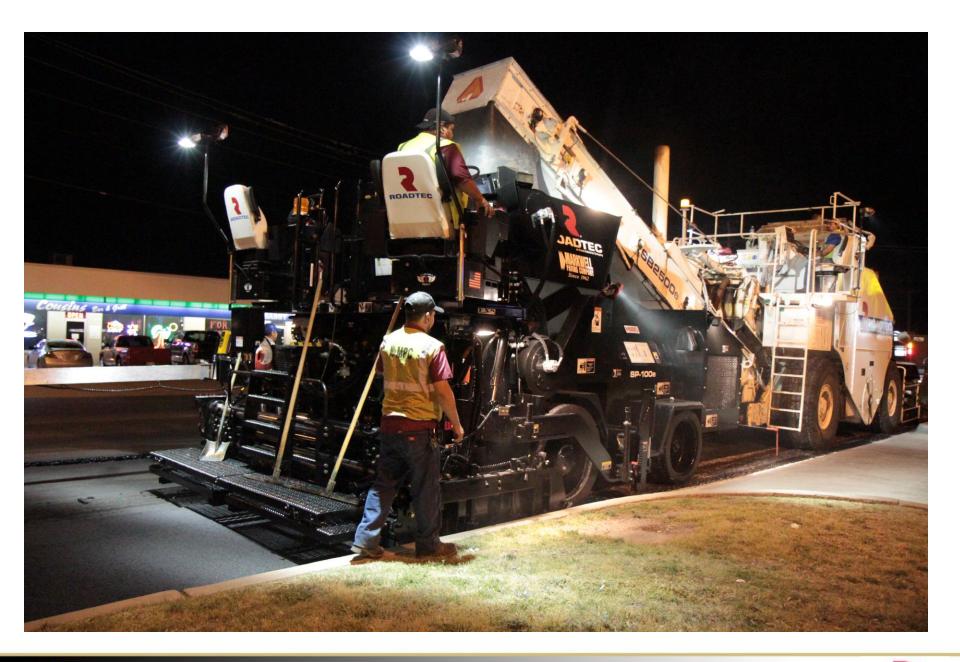
Autotracking System



- Two light towers
- Color indicators
- Green = good distance
- Top amber & red = SB in process of stopping
- Lower amber & red =
 SB will be speeding up

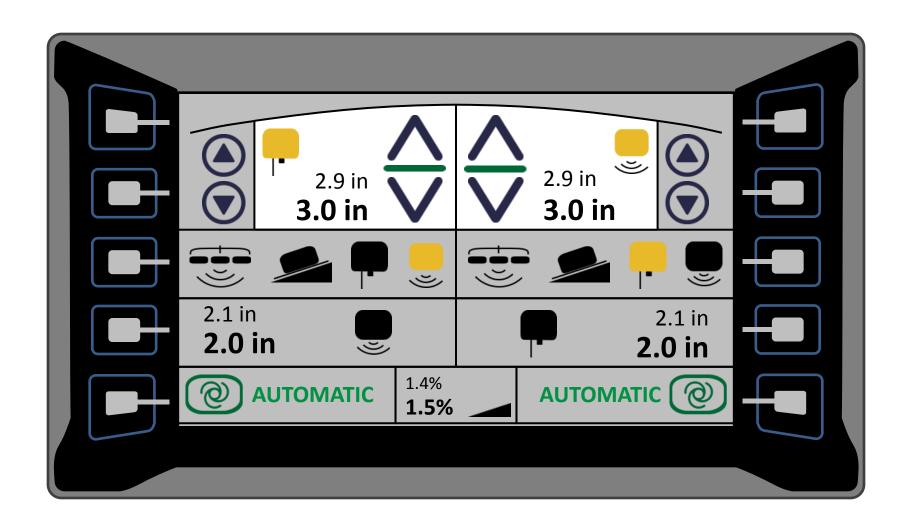










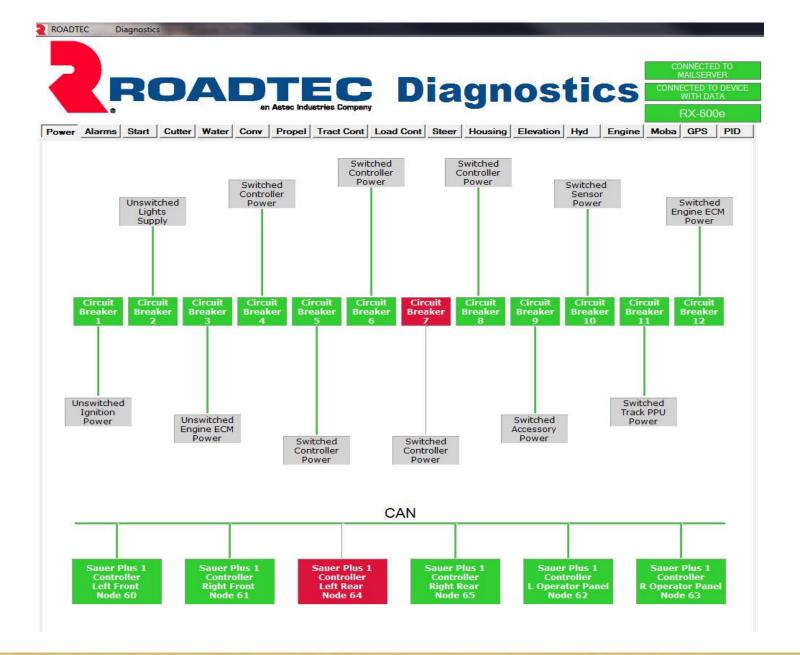


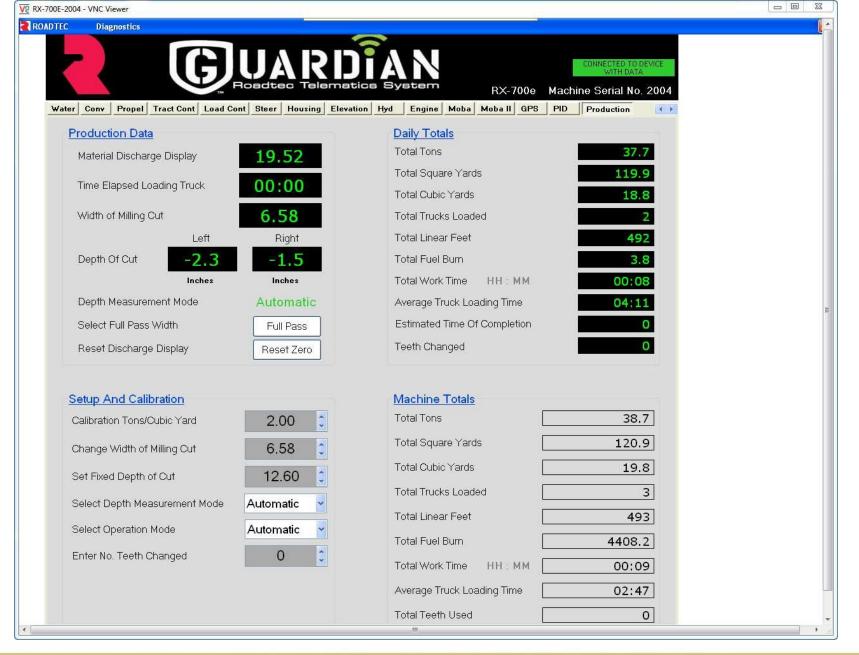




Guardian Remote Telematics System

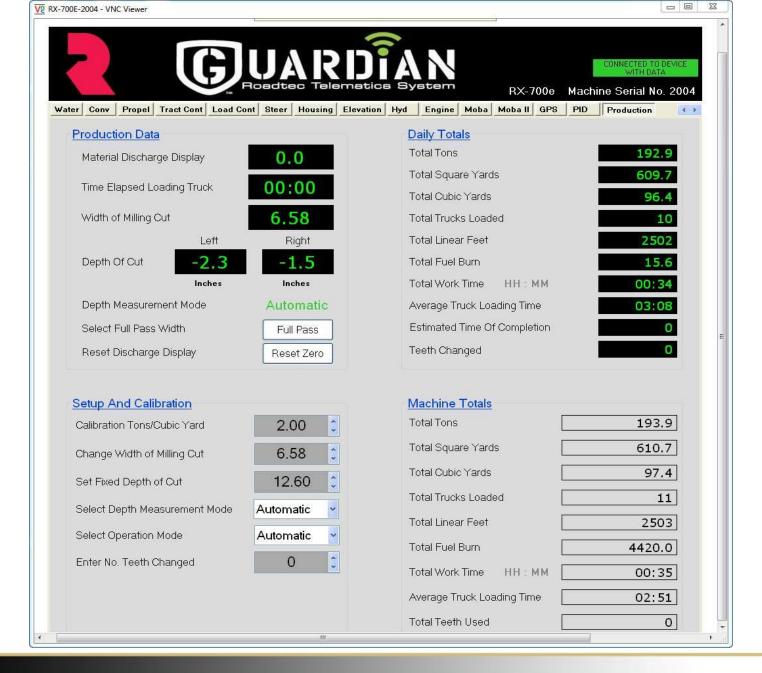






























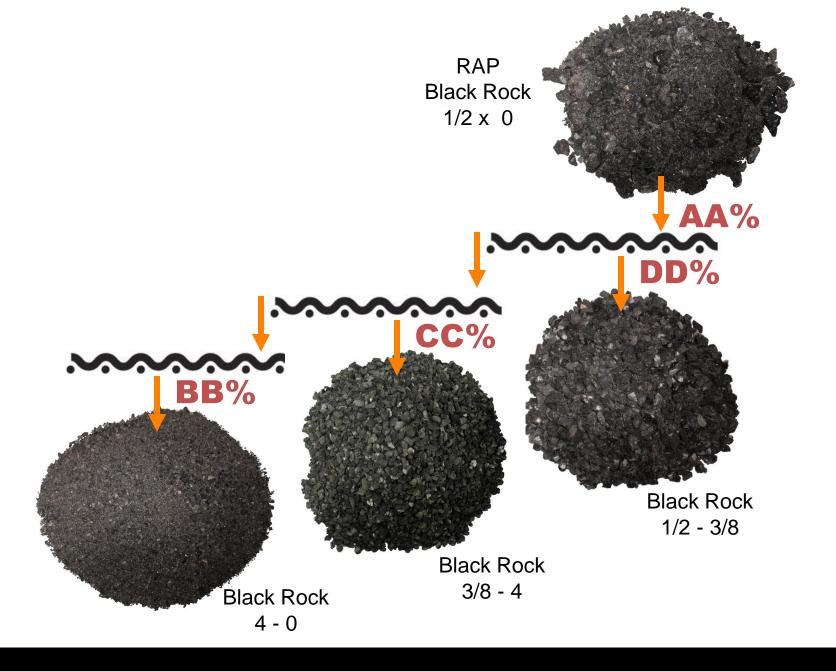




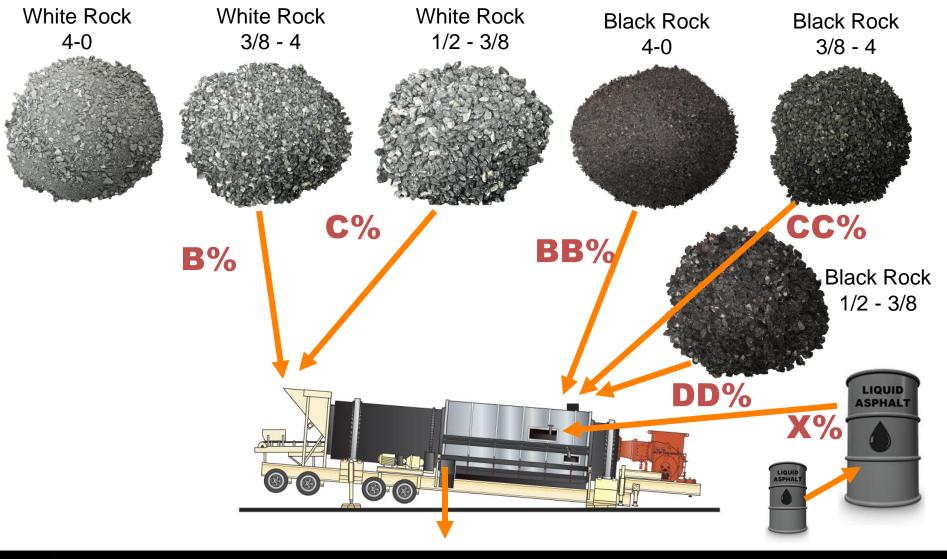












SUPERPAVE MIX WITH PROCESSED RAP - CHOICE #2

Dillman Unified Drum



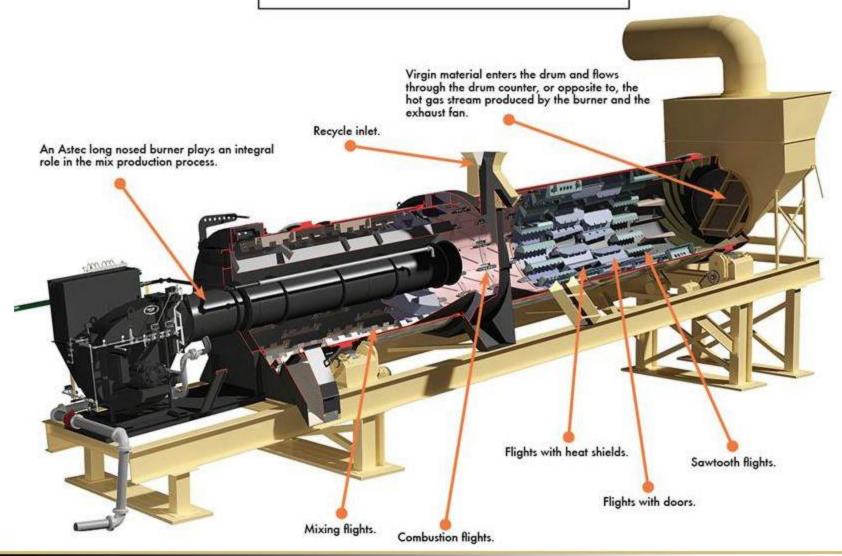
THE UNIDRUM

Counterflow Dryer/Drum Asphalt Mixer





INSIDE DRUM































Thank You!

