



SPRING 2024



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# MATERIAL PROCESSING SOLUTIONS

A PUBLICATION DEDICATED TO EQUIPMENT OWNERS, MANAGERS AND PROFESSIONALS



RAP Management:  
HIGH-QUALITY, SUSTAINABLE RAP ...  
TOMORROW'S GOLDEN GOOSE

# BUILT FOR THE MOST BRUTAL APPLICATIONS

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## EQUIPMENT PROTECTION: **Maintenance + Insurance = Peace of Mind**



Watching helplessly as a key piece of equipment goes up in smoke is about as bad as it gets. Unfortunately, it happens more than you think. The fact is, it is 99% avoidable with some simple maintenance steps. As discussed previously, these include:

- 1. Repairing small or slow hydraulic leaks** that lead to oil residue build up on and around the engine or hydraulic components.
- 2. Regularly clearing fine wood dust** from the engine and hydraulic components.
- 3. Removing larger material buildup** from around the discharge and mill areas to mitigate thermal spikes and the likelihood of a combustion trigger.

On occasion, however, a machine is still lost to an inevitable fire. This typically results in not only the loss of an asset, but the loss of the operation's production ability. In these cases, the business operator's foresight in having insurance in place, and potentially offsetting a significant loss, is the only silver lining.

While many companies employ insurance policies to cover the machinery they own or finance, it is critical to understand what those policies actually cover in the event of a catastrophic incident.

"Having seen the devastating impact of fire too many times, I highly encourage equipment owners take the time out of their busy schedules and review their policies with a trusted insurance professional,"

explained Material Processing Division's General Sales Manager Jesse Garber. "Be informed, understand the risk, and evaluate your options. Know what is possible, what can and cannot be covered," he added.

While there are many derivatives, there are essentially two types of policies:

- 1. Commercial Property Insurance** covering damages caused by external forces, such as fire, flood, etc.
- 2. Equipment Breakdown Insurance** covering damages caused by internal forces, such as mechanical breakdown, operator error, etc.

"Know if your policy covers a rental machine to keep your operation up and running in the event of a loss," added Garber. "Understand the limitations and term of the coverage, and whether your equipment is insured at a replacement value commensurate with current market cost. Having a working knowledge of this information enables you to manage risk more effectively, and sleep better at night."

For assistance in determining the best policy for your operation, contact a local insurance professional. Allowing the catastrophic loss of a production machine to be compounded by being uninsured or underinsured is avoidable ... let's avoid it today.





RAP MANAGEMENT:

## High-Quality, Sustainable RAP ... Tomorrow's Golden Goose



RAP Management entered the Columbus asphalt market with a revolutionary idea, at least for the United States. The company makes asphalt that's 60% recycled RAP, three times the U.S. industry average, using state-of-the-art technology and precisely engineered formulas to create a high-quality product.

The company produced its first full season of asphalt in 2018, targeting commercial paving companies rather than highway contractors. The product was a big success, and by 2021, RAP's Fifth Avenue plant was at capacity, said Ryan Smith, CEO and founder.

RAP Management entered the Columbus asphalt market with a revolutionary idea—make asphalt that's 60% recycled RAP, three times the U.S. industry average.

With the first plant booked solid, Smith added a facility on Walcutt Road with 45% more capacity than RAP Fifth Avenue. He relied on Columbus Equipment Company to provide much of the equipment, just as the dealership outfitted the Fifth Avenue plant. "The

new facility is essentially the same machine we have at Fifth Avenue," he said. "We didn't want to change much; we want consistency between the two plants because that allows them to use the same recipes and get the same results for customers."

"The Astec 4250  
Horizontal Shaft Impactor with  
a four-bar rotor, does a good  
job liberating asphalt."

Josh Lovett, Material Processing Division's Product Specialist  
Columbus Equipment Company

One change RAP made was to use a larger crusher at Walcutt Road. "The crusher, an Astec 4250 Horizontal Shaft Impactor with a four-bar rotor, does a good job liberating asphalt," according to Josh Lovett, product specialist for Columbus Equipment Company's Material Processing Division. "The crusher's throughput averages 350 tons per hour," he added.

RAP Fifth Avenue has a portable CS3646 crusher, but Smith chose the stationary Astec 4250 for the new facility because he believes a stationary machine is a little easier to work on than a portable machine



and that transfer points are less prone to spillage or leakage. The new facility also uses a 3624V screen plant and 50"x20' grizzly feeder from Astec, similar to the Fifth Avenue facility.

TCI designed and built structures for the core components to set on, and Columbus Equipment Company oversaw the machinery installation. Lovett was instrumental in ensuring everything ran correctly, Smith noted. "Josh was there every day and made sure anything that wasn't perfect got addressed. He

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*"I'm with Columbus Equipment Company because they've always been able to meet my service needs quickly."*

Ryan Smith; CEO and founder, RAP Management

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also created an inspection protocol for us to follow, and we use it monthly at both sites. He's gone above and beyond to make sure we're proficient in running machines that no one has run before."

"I'm with Columbus Equipment Company because they've always been able to meet my service needs quickly," Smith added. "We're not experts in maintaining equipment; we're learning to be experts in making asphalt. It's important to have a partner like Columbus Equipment that I can call on to be there and mitigate any problems with the machines." In addition to crushing and screening equipment, Smith purchased two loaders, a dozer and a large excavator from Columbus Equipment Company for the new facility.

RAP Management uses an asphalt plant from Switzerland designed to use a high percentage of


RAP, and downtime is extremely rare for the asphalt plant itself, Smith said. However, "processing recycled asphalt is difficult. It's abrasive and causes material wear in the equipment. It's the nature of the business."

With oversight from Columbus Equipment Company, including instructions from Lovett on how to inspect and perform PM on the processing equipment, RAP Management has increased its uptime, Smith said. "We've grown our team and gotten experience in running the equipment." Crushing operations also work ahead of asphalt production, usually running 10,000 tons ahead of asphalt deliveries, so the company has a cushion of crushed product if needed.

"In 2023, RAP Management's sales grew by 35%. Some demand results from the volume of construction occurring in the Columbus market," Smith noted, "but we are growing faster than the market." He thinks another driver of business is being transparent with customers, "letting paving contractors know if we're having problems so they can make decisions about their scheduling."

Paving contractors are the main market for RAP's recycled asphalt for now. The City of Columbus has approved the material for its projects, and RAP is doing demonstration projects with ODOT. "We're not approved by ODOT now, but we will be," Smith said. "They can't purchase better materials than we can deliver."

RAP's method of turning a byproduct into a high-quality material is "the best way to make asphalt in an urban environment. Everyone is looking for the solution we're providing," Smith said. "I think we're growing because we're reliable and provide a good product and good service. But on the back end, it's also a sustainable product."

RAP Management has engineered a compelling proposition. Provide sustainability by supplying customers with a high-quality, dependable product and superior customer service. Rocket science, no ... recycled RAP science, absolutely. 



# NEW AND PREVIOUSLY-OWNED, LATE-MODEL EQUIPMENT FOR SALE AND RENT



**2022 Bandit 3090T Wood Chipper**

S/N: 523191, 259 Hrs., Caterpillar (755HP), 37" Dia. X 36" Wide Drum with (6) Knives, 30" Dia. X 36" Wide Top Feed Wheel, 10-5/8" Dia. X 36" Wide Bottom Feed Wheel

**\$599,000**



**2019 CMI C475 Mulch and Mowing**

S/N: CA400302, 1,972 Hrs., Caterpillar Tier 4F C-13 (475HP), 4 Pump Hydraulic System Attachment, One Piston Pump Track, Two Piston Pumps, Auxiliary Function

**\$399,000**



**2023 CMI C300**

S/N: CUD610010, 364 Hrs., 6.7 Liter Cummins Engine, PO 43991, 22" Track Pads, D4 Undercarriage Winch, FAE Mulcher Attachment

**\$429,000**



**2021 KPI-JCI FT4250CC Crusher Aggregate**

S/N: 419677, 1,693 Hrs., Caterpillar C13 Tier IV 1,800 RPM (440 HP), Radio Remote and Tether, 4250 Horizontal Shaft w/HD Solid Rotor, Variable Speed Hyd. Crusher Drive

**\$699,000**



**2021 Terex Ecotec TFC75 Organics Conveyor**

S/N: 6847, 87 Hrs., Caterpillar C4.4 Tier 4F Diesel Engine (110HP), Feeder Hopper w/Hyd. Adjustable Landing Legs, Variable Speed Control with Biomass Discharger Auger

**Call for Price**



**2023 Terex Finlay 684 2 Deck Screen Aggregate**

S/N: TRX01684VDGNI7415, 15 Hrs., Caterpillar C4.4 (125HP), 14' Wide Hopper, w/48" Variable Speed Belt Feeder, Remote Control Hydraulic Tipping, Reject Grid, Two Deck Screen Box 14' X 5'7"

**\$329,000**



**2023 CBI Magnum Force 5800BT Horizontal Grinder**

S/N: 022100, 108 Hrs., Caterpillar C18 Tier 4F Diesel Engine (765HP), Auto Reversing Fan System, 48" Wide X 40" Dia. Hammermill, Forged Drum Offset Helix Rotor, 6" Rotor Shaft

**\$889,000**



**2021 Komatsu PC290LC-11**

S/N: A28285, 2,237 Hrs., PO RU47277, NYE Stump Shear Or NYE Concrete Pulverizer

**\$349,000**



**2023 CMI C400L Track Mulchers**

S/N: CU302705, 337 Hrs., Cummins Tier 4F QSL9 (400HP), 4 Pump Hydraulic System Attachment, One Piston Pump Track, Two Piston Pump Auxiliary Function, One Gear Pump Dry

**\$559,000**



**2024 Terex Ecotec 2100T**

S/N: 14023, 10 Hrs., PO 48939, Multiple Sizes Of Screen Media Available

**\$363,000**



**2023 CBI Magnum Force 6800CT Horizontal Grinder**

S/N: 011282, 322 Hrs., Caterpillar C27 Tier 4F Diesel Engine (1050HP), PT Tech HPT015 Hyd. Clutch, Auto Reversing Fan System, 40" X 60" Hammermill (24 Hammer Pattern)

**\$1,089,000**



**2022 Astec GT104**

S/N: 225144, 354 Hrs., Cummins Tier IV Final (74HP), Engine Mounted Hyd. Pumps, 2410 Two Deck Screen, 4'x9' Top & Bottom Deck, Hydraulic Variable Vibrating Mechanism, Fabricated I-Beam Style Frame Rails

**\$159,000**

**Call Mark DiSalvo at (937) 424-7678, or your local Columbus Equipment representative, for complete listing information today!**



MATERIAL PROCESSING

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# Spring Promotion TEREX/XCAL TOOLS Grinder Tips



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