

Sahara[®] Pro

Advanced colorant performance



We create chemistry



Sahara® Pro

The next generation of colorant performance.

The state-of-the-art Sahara Pro delivers everything you need to increase productivity and save time and money, including an optimized Global Equipment Monitoring (GEM) system for intelligent control and monitoring; a modular design for easier maintenance and improved safety; and added features to ensure the most efficient use of water, energy and materials.

Do more with less water, less energy.

One of the key innovations of this system is a more efficient use of water and energy. We have drastically reduced the water usage per cubic yard of material through a high-pressure nozzle design and more precise atomization process. Plus the design isolates the hopper from the mixing chamber to reduce energy requirements when handling large loads.

Easy maintenance. Improved safety.

The unique, enclosed design of the Sahara Pro was created with you and your employees in mind. All maintenance areas can be accessed from ground level, including the mixer trough, mixing components and liquid manifold systems, so your employees can inspect the system and perform maintenance without entering a confined space.



Less water means mulch dries faster, less color washes off and coverage is more consistent. It also means that mulch dries faster and weighs less, so you can load more bags per truck and reduce shipping costs.



Less energy is required because of our innovative design, which isolates the hopper from the mixing chamber. The result? Less horsepower needed to operate — just 75 hp — even while mixing extra-large loads.



Easy access from the ground level to trough and mixing areas. No more welding to replace the trough liners or climbing inside to access mixing components, which reduces downtime and the risk of injuries on the job.

We've taken efficiency to a new level.

You're always looking for new ways to improve efficiency and reduce downtime for your operation. That's why the experts at Colorblotics have created the Sahara Pro coloring system. It delivers a new level of efficiency with a revolutionary design and enhanced technology features that do the work for you.



Global Equipment Monitoring (GEM) control system

The Sahara Pro includes an optimized GEM system that puts you in complete control of all aspects of the operation and helps minimize user error.

- Scans preset recipes included on colorant/coating totes and calculates precise measurements for improved efficiency
- Offers volumetric control feature, shutting the machine down when exact output is produced
- Measures input of raw material, water, additives, and output of finished mulch
- Includes easy-to-use, touch-screen controls with automated features
- Automatically generates custom reports and delivers via email for improved monitoring of accounting and cost-control information
- Monitors all system components and provides safety/maintenance alerts
- Manages inventory and allows ordering of parts and colorant from the machine



On-demand valves are automatically controlled by the GEM system. It calculates the colorant requirements based on mulch volume and preset recipe, then precisely controls the output to each spray nozzle as needed. Maintenance is automated with a high-pressure liquid manifold purge system.



Designed for optimized performance.

The Sahara Pro features a revolutionary design and a whole new way to work — to help you be more productive, more efficient, and safer on the job. Every component of the Sahara Pro has been engineered to work smarter, so you don't have to work harder.

SPECIFICATIONS	SAHARA X1*	SAHARA X3*	SAHARA PRO*
Estimated Production	150 yd ³ / hour	200 – 300 yd ³ / hour	150 – 350 yd³ / hour
Water Requirements	10 – 40 gpm	20 – 70 gpm	8 – 70 gpm
Engine Data (Electric or Gen Set)	75 hp electric, 460 V 200 kW Cummins diesel generator set	100 hp electric, 460 V 250 kW Cummins diesel generator set	75 hp electric, 460 V 200 kW Cummins diesel generator set
Height (Sahara / Gen Set)	13.42' / 8'	13.42' / 8.5'	13' / 8'
Width (Sahara / Gen Set)	7.75' / 4'	7.75' / 4.5'	8.25' / 4'
Length (Sahara / Gen Set)	20.42' / 9'	24.83' / 10'	31.25' / 9'
Weight (Sahara / Gen Set)	14,660 lb / 4842 lb	18,200 lb / 6326 lb	31,000 lb / 4842 lb
Infeed / Dump Height	11'	11'	11'

*Conveyor sold separately.

Isolated mixing system.

With the innovative design, raw materials are never dumped directly into the mixing chamber. Instead, material is fed into the chamber evenly from the Hallco Live Floors® reciprocating slat floor — which allows it to mix more consistently as well as reduces the horsepower demand on the mixing chamber motor. This dual chamber design allows for high-speed, high-volume production without sacrificing product quality.

The Sahara Pro comes standard with Dura Blades, featuring tungsten carbide, that offer powerful mixing capability and three times longer life expectancy than standard blades. We also doubled the length of the mixing trough, so there's more time for colorant to thoroughly coat raw materials before leaving the chamber.



Enclosed mixing trough is safer to operate than any other system on the market. It is virtually impossible for someone to accidentally fall in, providing added peace of mind. And yet, mixing components are easier than ever to access and service — from the ground level. The modular design allows operators to simply pull individual components out of the system for quick, efficient inspection or repair.



Hallco Live Floors reciprocating slat floor is an integrated infeed design that ensures a consistent flow of raw material to minimize variances. Vertical side walls and chains evenly distribute the raw material, then sensors measure for precise volume calculation prior to it entering the mixing chamber.



Atomization system features eight high-pressure nozzles. Colorant is atomized with high-pressure water, eliminating the need for air and optimizing mulch coating/additive distribution. The system calculates the additive volume, then cycles spray tips open or closed as needed for high-quality results.



Volumetric control feature allows you to create a precise volume of desired output using the GEM system. The machine senses the amount of raw material entering the system by calculating depth and width, and automatically shuts down when the desired production amount is achieved.

Maintenance made easy.

It's never been easier to keep your coloring system running at peak performance. The Sahara Pro has a revolutionary design featuring components that last longer as well as systems that are easier to maintain. It starts with the intelligent GEM system that detects and alerts you when components begin to show signs of wear or errors occur during operation. Then, when it's time for routine maintenance, it's never been faster or more convenient to service coloring equipment — thanks to open-air access and components that are modular in design.



Trough liners are accessible from the ground level and are bolted in place, so welding is not required when it's time for replacement. A job that used to take days can be finished in hours! Plus, the trough section closest to the raw material feed and exposed to more abuse is the most accessible.



Blade replacement is easier than ever, too, because they are also at ground level. Just remove the trough section and stand on level ground to do the job. Other systems require you to stand on the uneven U-shaped trough.



Colorant pumps are isolated from other components and accessible from ground level. They easily slide out and away from the machine for convenient access when maintenance is required.

Safety at every turn.

We designed the Sahara Pro with operators in mind, to optimize safety and ease of maintenance at every level. In addition to the enclosed design and isolated mixing chamber, which help minimize the potential for injuries, and the open-air accessibility for servicing parts, the Sahara Pro includes other fail-safe safety features to protect your employees.



Lock out/tag out feature ensures the Sahara Pro cannot be engaged under any circumstance — a must whenever service is required. It can include a single lock or multiple locks that must be removed before restarting the machine.



Two proximity switches include sensors to monitor if the mixing chamber doors are open. The main power cannot be engaged if the doors are not completely closed, to keep people from entering the chamber when the machine is running.



Restart button must be pressed after the emergency stop button has been activated to restart the machine. This adds an extra measure of protection for your crew when the Sahara Pro has been cleared to re-engage.

We thought of everything.

The Sahara Pro includes every detail and more added features to help you increase efficiency, improve productivity and reduce downtime — including convenient maintenance features, added safety measures and smart options that make this machine more user-friendly.

Thoughtful details make it a pro.

Mulch coloring systems have never been more professionally equipped. Numerous ingenious features help you operate above and beyond, to improve productivity, efficiency and operator control.

For added efficiency, the Sahara Pro allows you to mix a colorant and a second Colorbotics additive at the same time. Simply equip the machine with an additional colorant pump and scale, and you can mix a color and additive in one batch — saving even more time.



Tote hoist, an optional feature with the Sahara Pro, easily lifts Colorbotics tote mixers into place — eliminating the need to use a forklift. Using the hoist, you can quickly mix the next tote of colorant while the Sahara Pro is coloring a batch of product.



Remote control, a standard feature with the Sahara Pro, allows operators to start and stop the machine from remote locations when they are on a loader moving raw material or away from the machine — further increasing efficiency.



Color scanner, another standard Sahara Pro feature, scans barcodes from both colorant and additive totes from Colorbotics — then feeds the information directly to the GEM system for efficiency and recipe accuracy.



Tote stand is an optional feature for the Sahara Pro. It sits off the ground at an angle to ensure you get every ounce of colorant from the tote and to help prevent moisture or damage to the tote and scale.

Colorbiotics® brings everything together to help you succeed.

In addition to providing quality colorants and innovative equipment, we're committed to helping your business succeed with ongoing training, unmatched tech support, on-site service and personal assistance from your Colorbiotics team.

We know the future of your operation is important to you. That's why we're actively developing new products and equipment today to help you grow and profit for tomorrow.



Get the Complete Package — Innovation, Service, Support and Products.
Call 888.663.6980 or visit us online at Colorbiotics.basf.us.