

Sahara® XP



Mulch, meet your maker.

The Sahara® XP. It's the toughest, most intelligent Sahara ever assembled. And that makes it the toughest, most intelligent coloring system ever assembled.



No machine colors mulch like this machine.

The mixing chamber on the Sahara XP is the first of its kind. The architecture of the chamber works with the innovations within to eliminate water waste and maximize color economy — trimming the fat from every last batch of mulch. And our belt feed hopper ensures each piece's path to finished product is practically identical.

Technical Data

Output: 100 to 350 cubic yards per hour
Water: 80 gallons per minute
Power: 200 amps @ 460V 3PH
Motors: Electric (up to 100 HP)

Measurements

Height: 13 ft 10 1/16 in
Width: 9 ft 6 in
Length: 43 ft 3/8 in
Infeed: 12 ft 3 7/8 in
Outfeed: 6 ft 10 in

Available Options

Hopper size
Motor horsepower
Auxiliary pumps
Cold weather package

The difference in brilliance is size.

As soon as colorant shoots out of our atomizer nozzles, the stream is knifed into a finer and finer mist by a series of high-velocity water jets — using the same water your recipe requires. That knifing action cuts down the colorant until its particles are small enough to cover the distinct surface characteristics of different wood fibers.

These new on-demand nozzles will flush out color and water for you, too. Just press a button on the XP's remote control to take care of cleanout from the comfort of your loader. The nozzles will do the rest, even when it's freezing cold outside.





Each piece, every which way.

Bilateral agitation is our patented “push-and-pull” process that keeps the blades turning in one constant direction to conserve energy, while the unique combination of blades throws the mulch in all different directions to maximize exposure.

That explanation almost certainly undersells the painstakingly placed blades, positioned at mathematically precise angles. But basically, this is how we pack so much muscle into such an efficient machine.



Same time. Same place. **Same color.**

The exact number of minutes and seconds mulch spends in the mixing chamber is what we call “retention time.” When it comes to that magic number of minutes and seconds, especially on a batch-by-batch basis, our belt feed hopper leaves nothing to chance: Mulch enters the mixing chamber at the same location, then spends the same amount of time getting thrown around inside. That’s why your piles of product will all be the same color across hours, days, weeks or seasons.

Mulch Conditioner

After mulch is dumped into the hopper, these tines break up the batch to help prepare each piece for the coloring process.

Discharge Conveyor

At a perfectly friendly height of 6 feet, our discharge conveyor sends finished product out the discharge end of the XP, so the system can kick out mulch directly onto your conveyor.

No jerry-rigging necessary.

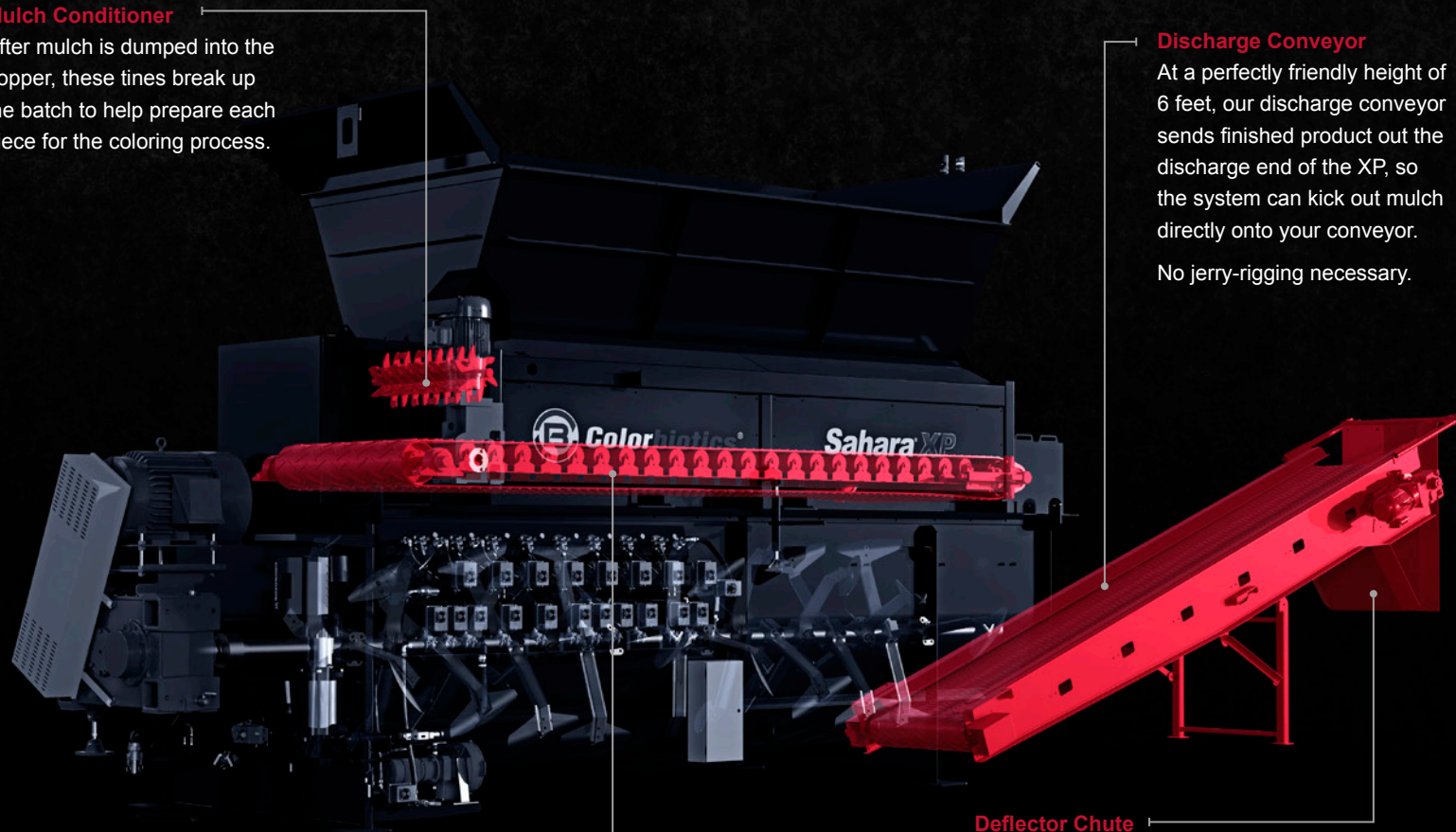
Belt Feed Hopper

From the tread and the track down to the pitch of the pins, this belt is purpose-built for the mulch business. All those carefully considered decisions come together to keep material flowing through the machine and make sure each batch follows the same exact path from the hopper to the pile.

Deflector Chute

Scraps of mulch that are too small to sell, along with any droplets of moisture, are knocked loose from the batch before this chute sends the scraps back onto the stacker belt.

The deflector chute also cleans the belt better and helps eliminate buildup at the tail pulley.



Safety. It's in the XP's DNA.

This machine isn't just equipped with safety features. It's engineered to remove risk from the ground up. In the development of the XP, we reworked the nuts-and-bolts construction of the coloring system — for example, eliminating the need to climb up on top of the hopper — to anticipate potential hazards at the blueprint stage. Of course, while the updated design helps prevent accidents in the first place, the safety features on the next page are always there to protect operators.



Magnetic Proximity Sensors

Sensors on the mixer discharge door and hopper discharge cover automatically activate the emergency stop system if opened when the blades are turning inside.

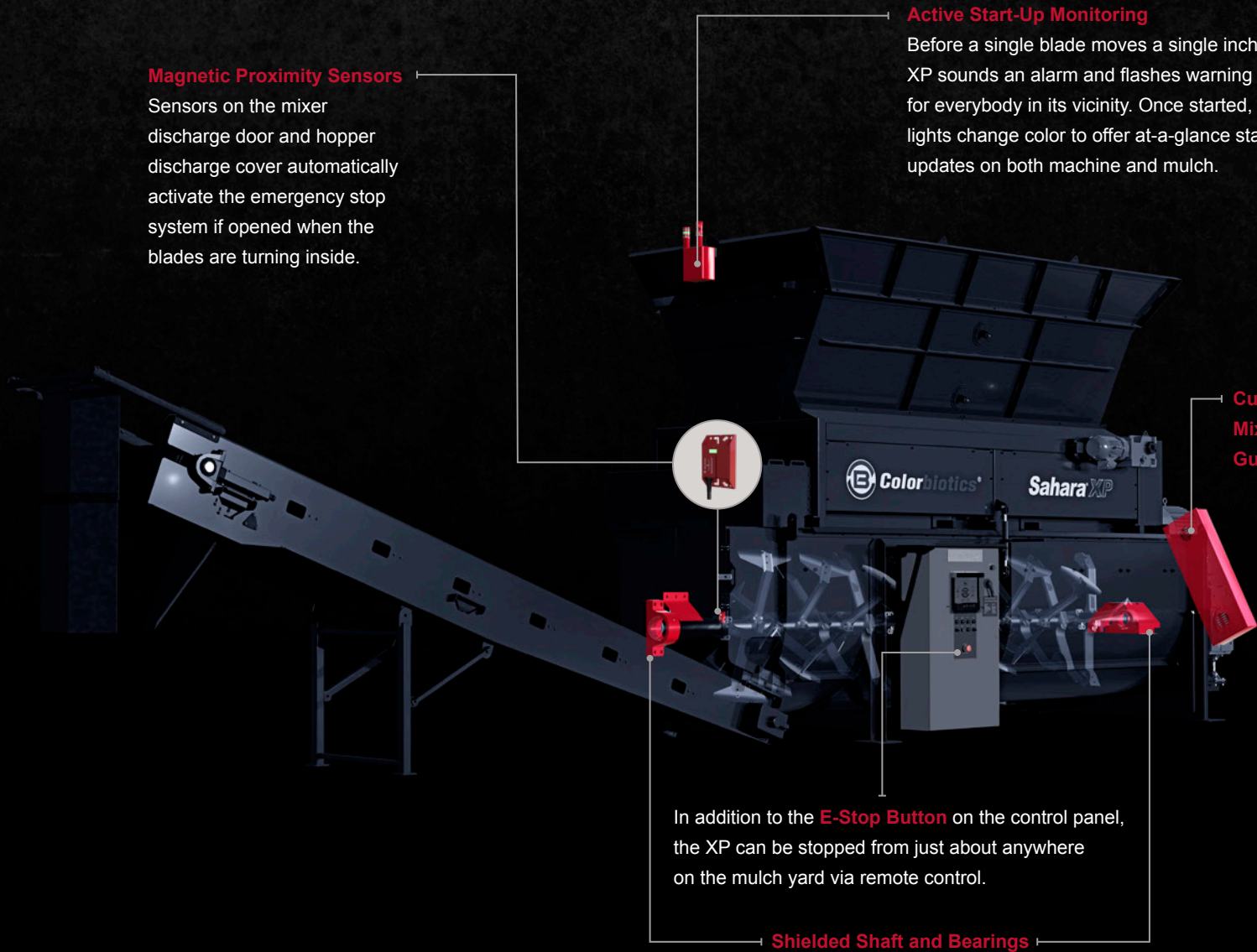
Active Start-Up Monitoring

Before a single blade moves a single inch, the XP sounds an alarm and flashes warning lights for everybody in its vicinity. Once started, the lights change color to offer at-a-glance status updates on both machine and mulch.

Custom-Fit Mixer Drive Guarding

In addition to the **E-Stop Button** on the control panel, the XP can be stopped from just about anywhere on the mulch yard via remote control.

Shielded Shaft and Bearings



As simple as push to start.

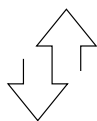
If you can punch the numbers on a microwave, you can color mulch with the Sahara XP. That's because the XP comes equipped with GEM Studio. This do-it-all interface puts operators one tap away from the perfect recipe, right there on the side of the machine. Or via any device, anywhere.



Data, down to the drop.

GEM Studio maintains constant communication with sensors throughout the Sahara XP to capture and compute data on every last drop of material. Those insights can be used to improve the product in real time. Or you can crunch the numbers to find hidden dollars and losses in everything from inventory to invoicing.





Input Assist

GEM Studio automatically detects opportunities to maximize efficiencies and minimize costly mistakes, then helps perfect each recipe program based on historical performance.



Adaptive Material Control

With measurements coming in every 5 seconds, GEM Studio can recalculate what's needed for each recipe — to outsmart the most minute fluctuations in output.



Interactive Maintenance

GEM Studio syncs maintenance tasks to create a trackable to-do list. And when it's time to replace a part, operators can order the exact one right there on the touchscreen.



Remote Programming and Troubleshooting

If an operator runs into an issue or needs assistance with something, our team can connect directly to your GEM Studio and help with just about anything.



Trust what's true.™

The Sahara XP is built for busy season. From the architecture of the mixing chamber to the materials of the components, each detail has been engineered to reduce wear and tear, cutting down on maintenance costs over the lifetime of the machine.

If your coloring system ever requires attention or calibration, our team is here to help. Each of the trucks in our regional fleet carries genuine replacement parts. Plus, a 7,200-pound crane, welders for different feeds and a plasma cutter. Just in case.

With more machines working for more mulch producers than anyone else, our team has seen too many problems complicated by local electricians and third-party suppliers. We would rather make at trip to fix the issue firsthand. That way it's taken care of the first time around.

When you trust us, it's on us. We stand behind the build quality of our equipment. We stand behind the science inside our totes. We stand behind the way we do business. So, make room on the mulch yard. Your new workhorse will be there for a long, long time.



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