

THE FUTURE OF PAVING,
BUILD GREEN ROADS



TECHNOLOGY



FUTURE IS

TABLE OF CONTENTS

SHREDDING TECHNOLOGY	4
PRE-SHREDDING TECHNOLOGY	6
CONTROL TECHNOLOGY	8
HYBRID DRIVE TECHNOLOGY	10
AUTOMATIC SHREDDING ADJUSTMENT	12

GREEN

SHREDDING TECHNOLOGY



OPERATING PRINCIPLE

CAMS™ shredders are designed for recycling. Both the primary and secondary shredders operate according to the shear shredding principle. During the process, the material is dumped directly on the shafts and grabbed by the picks, without the need for a feeder.

INNOVATIVE TECHNOLOGY

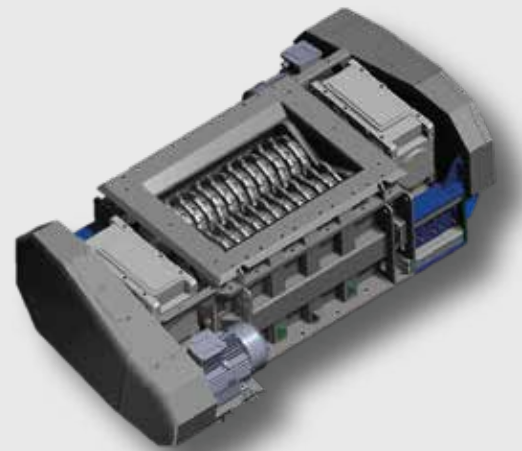
CAMS™ shredders are designed to disrupt asphalt waste without crushing it to preserve its original grading curve and bitumen content. This is what makes the recycling process so efficient.

PRODUCT QUALITY

The slow and gentle shredding technology results in fewer fines, low acoustic and dust emissions, and guarantees 100% of original bitumen content reuse, giving back recycled products with the same grading curve as the original asphalt pavement. The essential source of economic efficiency.

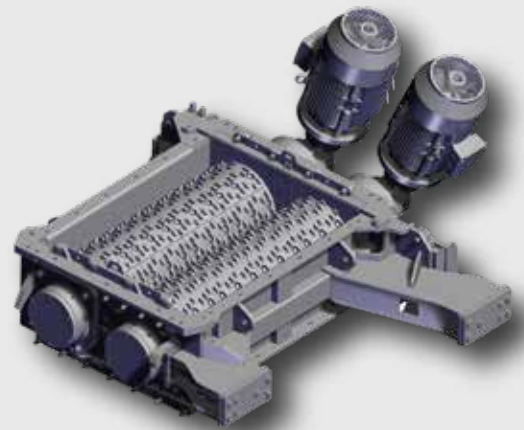
LOW WEARING

The slow rotation mechanism of CAMS™ shafts significantly reduces the wearing. A patented system allows to easily replace the components without disassembling the machine.



SC-SHREDDER CORE

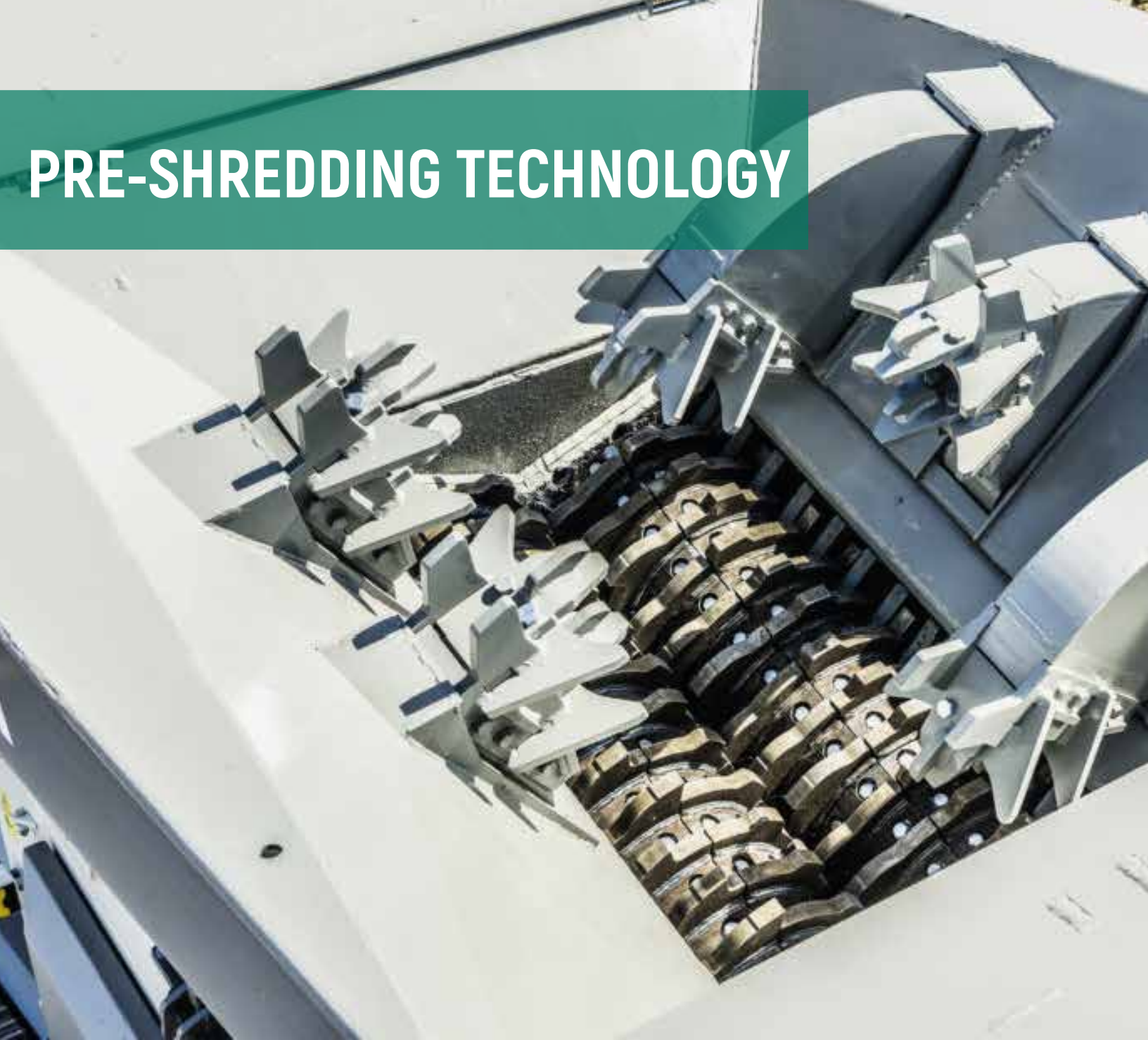
SC shredder is the perfect range of equipment to recycle asphalt. The CAMS™ primary shredder can handle any kind of material, from the smallest milled asphalt to large asphalt chunks, with the best efficiency rate.



SRU-SECONDARY RECYCLING UNIT

SRU range of secondary shredders grants the complete recycling of asphalt waste.

PRE-SHREDDING TECHNOLOGY



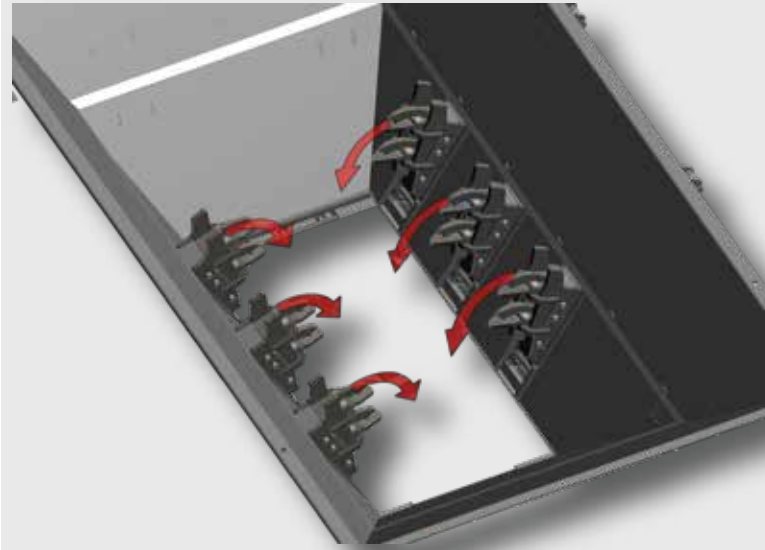
HOW ABOUT SLABS?

The patented system of CAMS™ hydraulic pushers, allows to load the largest asphalt slabs directly into the primary shredding unit.

The pushers pre-shred the largest chunks and keep them steady on the shafts of the primary shredder, thus making it easy for the picks to process them further.

The pushers operation can be adjusted according to the type of input material to ensure maximum efficiency.

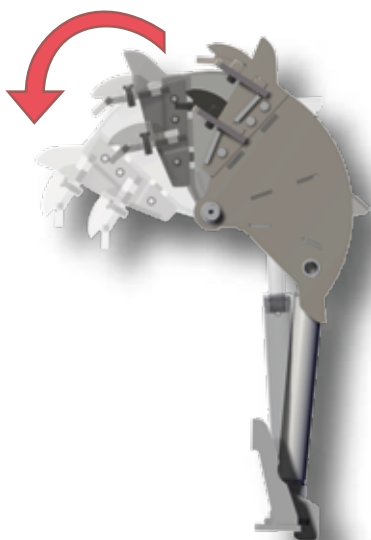
This fully automated system can be enabled from the remote control, allowing the control directly from the excavator or the wheel loader.



PATENTED

PUSHER SYSTEM

The patented Pusher System by CAMS™ makes your machine processing the biggest asphalt slabs. This completely automated technology pre-shreds the largest asphalt chunks inside the feeding hopper, making it easy for the shafts to shred them.



US PATENT # 15/779,507



CONTROL TECHNOLOGY

PLC CONTROL

PLC software developed by CAMS engineers allows the complete control of the machine, automating its production process and making its use simple and intuitive for the user.

The automatic sequences make it possible to start the recycling process with a button, while the PLC controls the operation of all the plant components.

Through the PLC system, all the machines are able to operate the recycling process in just 30 minutes.

TELEMETRY FEATURES

- Complete control of the mobile plant
- Customizable functions
- Components testing
- Performance control
- Remote service and GPS features
- Weighing system
- Intuitive troubleshooting guide
- Interactive PLC remote visualization



BUILT-IN SOFTWARE

The CAMS™ control software features components testing, recycling modes setting, and an intuitive guide for fast troubleshooting.

An integrated 5G connection communicates with the Customer's offices by transmitting the plant operating data, its position, and emergency alarms.



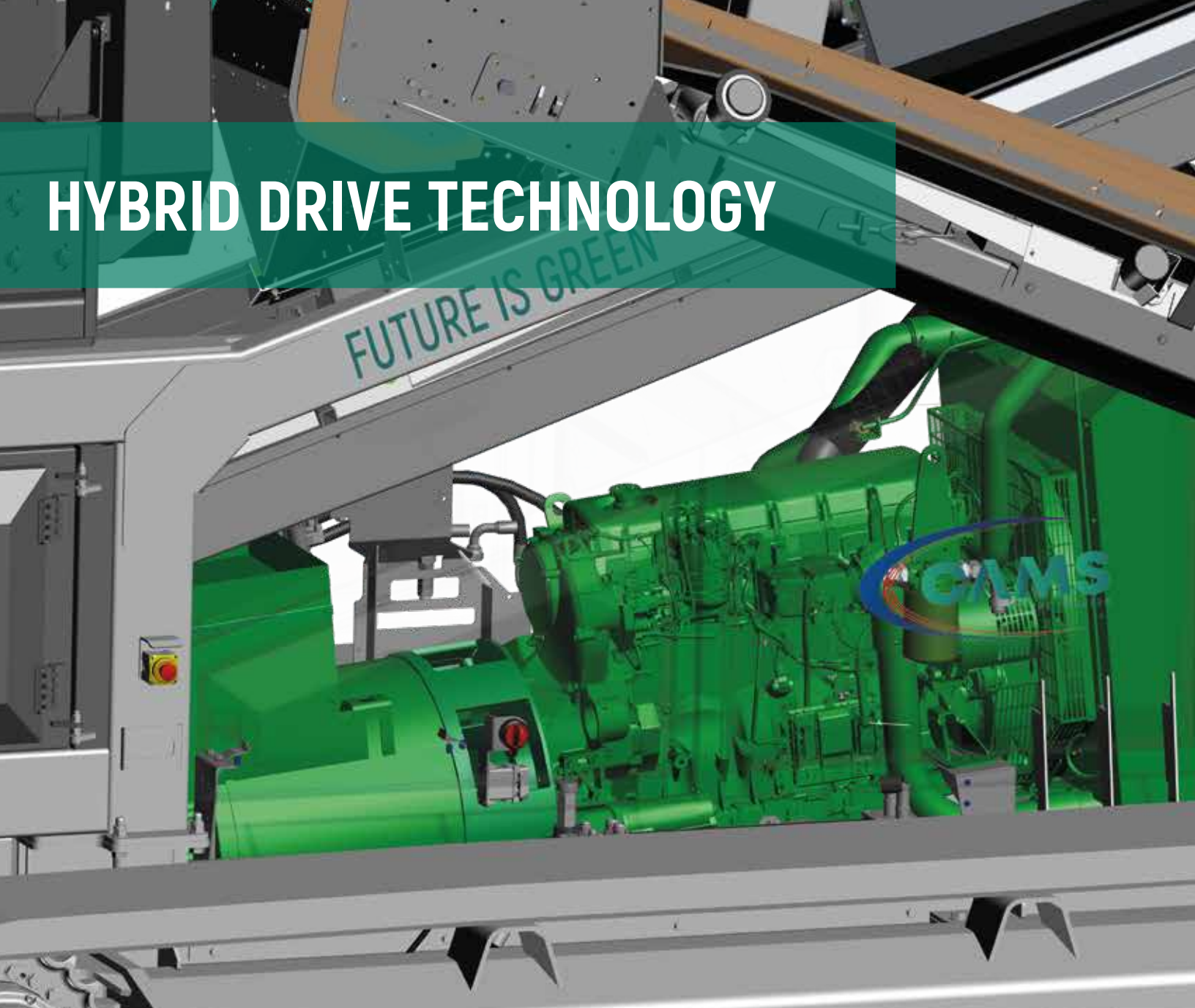
RADIO REMOTE CONTROL

The wireless remote ensures the control of the machine in all its functions.

With 150 meters of range it allows the user to move the tracks with high precision through two different movement speeds.

The LCD monitor shows the performance of the machine real-time directly from the remote control.

HYBRID DRIVE TECHNOLOGY



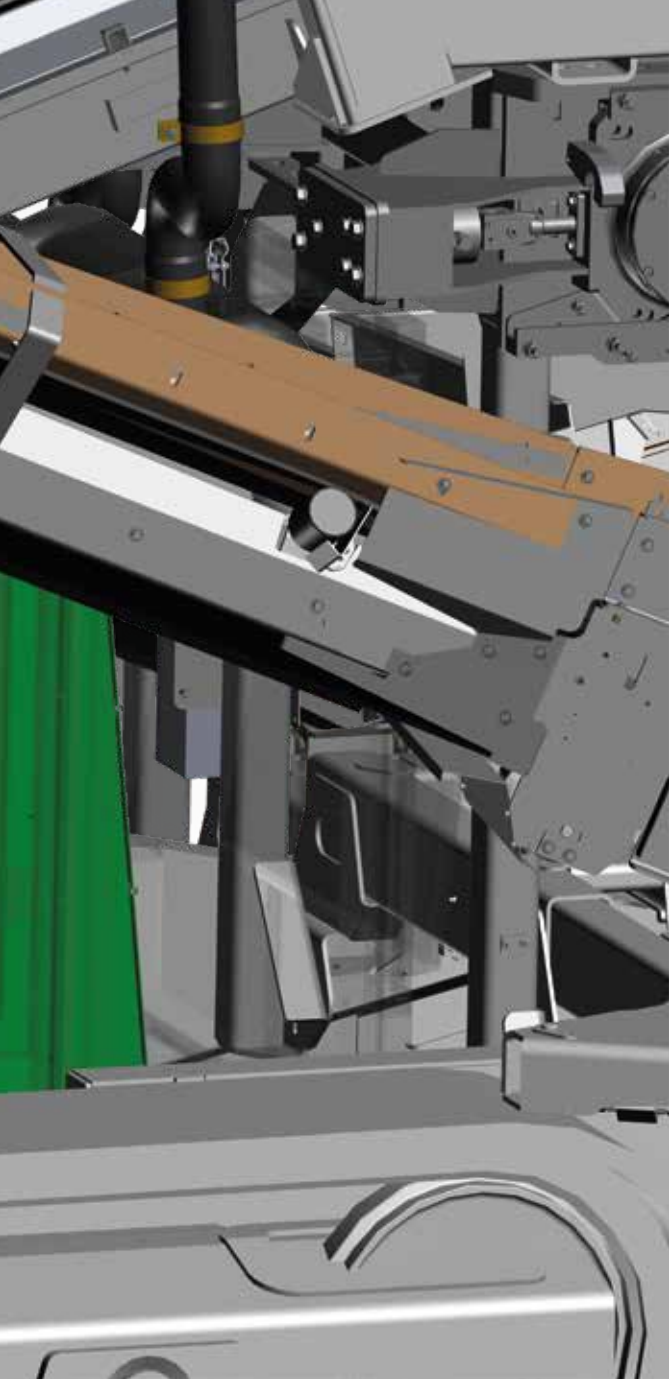
GREEN MACHINES

Two keywords identify the CAMS™ range of asphalt recycling shredders: Power and Eco-Sustainability.

All CAMS™ mobile plants are equipped with a powerful and fuel efficient Diesel-electric drive. The Diesel engine is coupled to an alternator to produce the electrical energy necessary for all the recycling operation and make it possible for the machines to provide electrical power to the job site.

For this reason the Diesel engine operates at steady state speed at 1500 rpm, ensuring maximum torque at the lowest fuel consumption and noisy emissions.

All machines can operate in full electric mode by exploiting the electric current of the site for zero CO₂ emission.

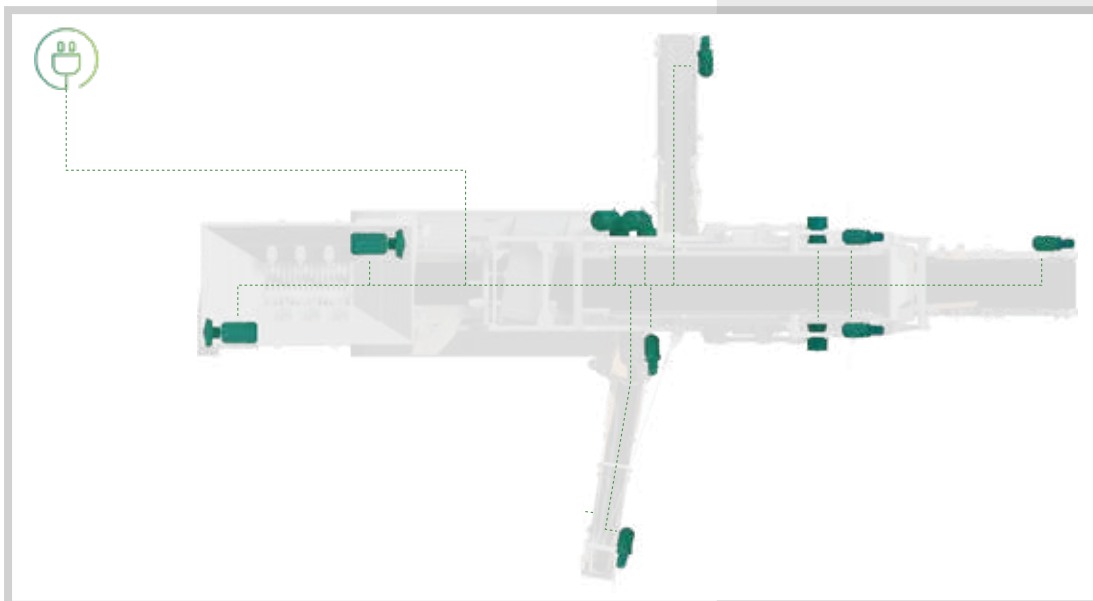


SUSTAINABILITY

CAMS™ technology gives back several environmental advantages. Low breathable dust production, low acoustic emissions, zero soil vibration, and the opportunity to plug the shredder to the jobsite electric switch.

ELECTRIC DRIVE

CAMS™ primary and secondary shredding units are fully electric powered. The recycling process will both save raw materials exploitation and cut down CO₂ emissions.





AUTOMATIC SHREDDING ADJUSTMENT

ASA SYSTEM

The ASA sensor detects the level of material on the main belt of your APR™.

Depending on the amount of material, the flow through the primary shredder is adjusted to the optimal amount.

The user of the machine has the possibility to set, through the PLC, the maximum thresholds for the operation of the ASA system.

Through its differential setting, the ASA system is able to adjust the operation of the primary shredder by stopping alternately one shaft or both shafts of the primary shredder with the aim of modulating the production of the machine and making the recycling process more efficient.

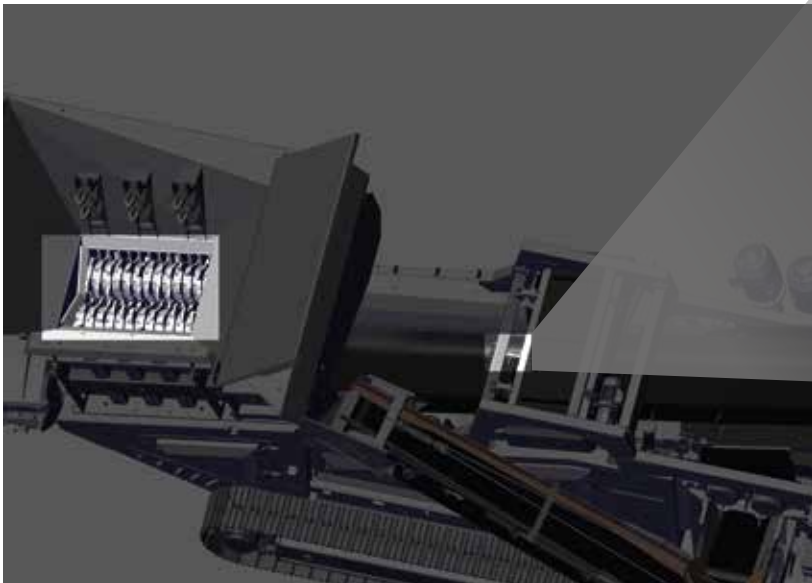
Maximum operational efficiency, automated.



PLC CONTROLLED ASA SYSTEM

Each APR machine is equipped with a PLC that controls the ASA system intuitively and effectively.

The user is able to select the threshold levels and activate the system to stop only one or both shafts depending on the amount of material on the main belt.



An aerial photograph showing a dark asphalt road with white dashed lines on the right side, and a dense forest of green trees on the left side. The text is overlaid on the top left of the image.

**CREATING SUSTAINABLE TECHNOLOGIES
TO GIVE RECLAIMED ASPHALT A SECOND LIFE**

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