

THE FUTURE OF PAVING,
BUILD GREEN ROADS





FUTURE IS

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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



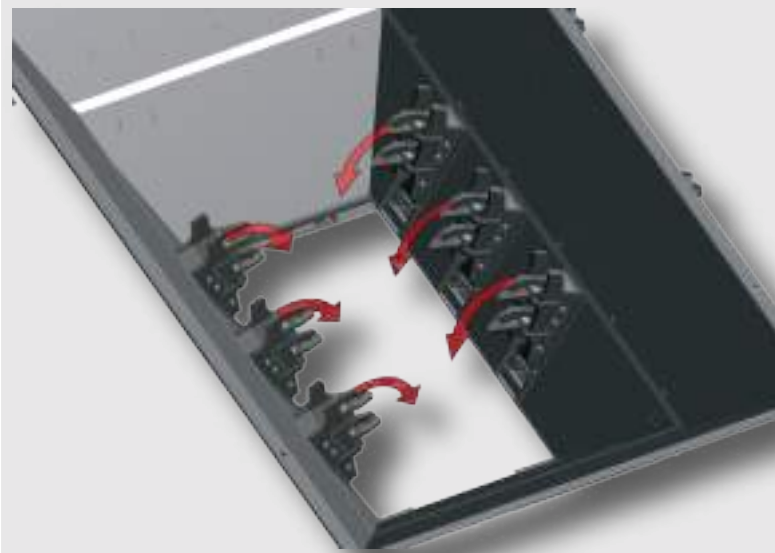
HOW ABOUT SLABS?

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.



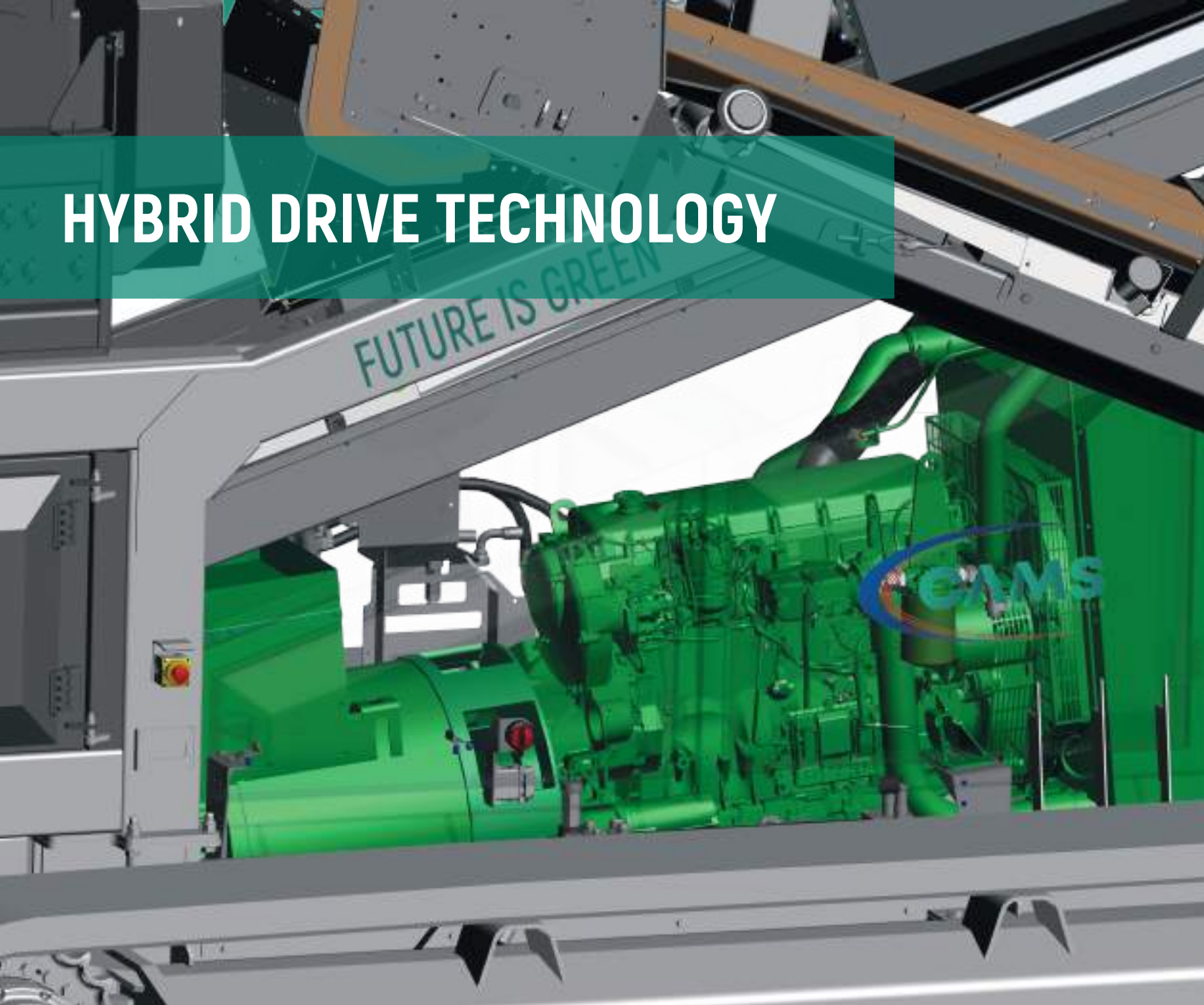
RADIO REMOTE CONTROL

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.

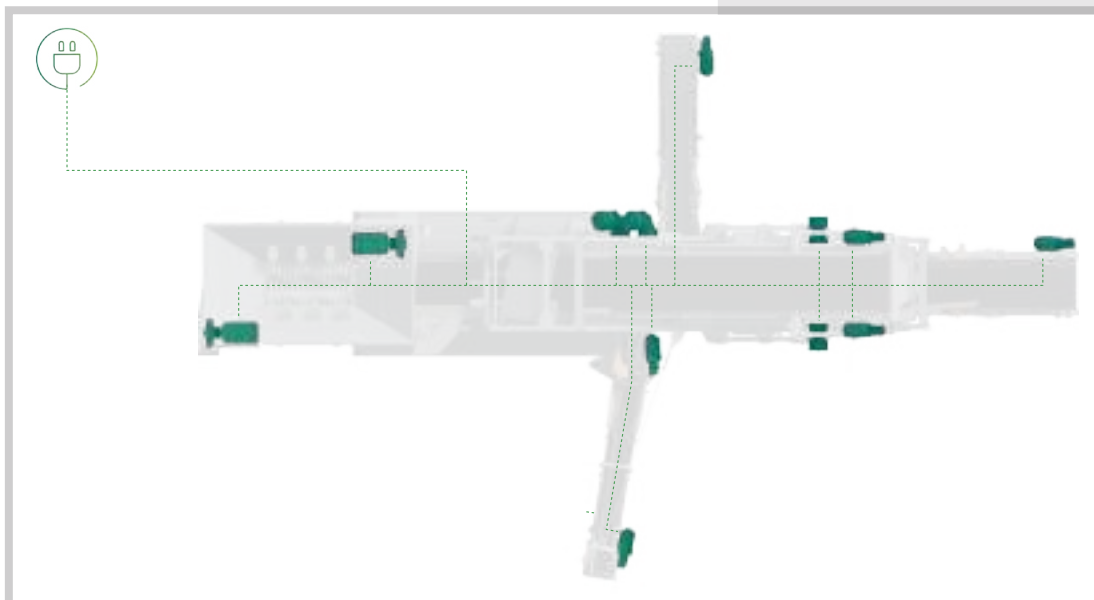


SUSTAINABILITY

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.



CAMS CARE





AFTERSALES

AUGMENTED REALITY SUPPORT



AUGMENTED REALITY SUPPORT

Thanks to the Augmented Reality Support system, the CAMS™ after-sales service has never been so close.

Get in touch with the CAMS™ specialized technicians directly from your smartphone with a mobile-app and get all the necessary support as if they were next to you.



GPS POSITIONING

CAMS™ machines are equipped with GPS to visualize the location of your machines from any device.

REMOTE PERFORMANCE CONTROL

- Productivity report
- Online database
- Hours of work
- Remote functions
- Alarms



CAMS

one click, all

STAY COM



Brochures



Video

PARTS STORE



CAMS™ CARE

all you need

CAMS™ E-SHOP

Order your spare parts with one click.
CAMS™ e-shop is open 24/7 on your computer, tablet or smartphone.
Whether for stock or a quick maintenance, get parts at your door.
Easy, Quick, Efficient.



CONNECTED



Reserved Area



Updates

PRIMARY RANGE

APR™

Asphalt Pavement Recycler

FEATURES

- Built-in specific shredding programs depending on the type of material
- Ability to process wet material
- One Diesel engine for four pieces of equipment
- Low fuel consumption
- Compact transport dimension
- Low wearing
- Ability to provide electrical power on site
- Low dust and acoustic emissions
- Recovers 100% of RAP

OPTIONS

- Hydraulic hopper extension
- Patented hydraulic pusher system
- GPS
- Electrical weighing system
- Electrical fuel pump
- Electrical grease pump





Hybryd power

The APR™ range can operate in full electric mode for **zero emissions** (without Diesel engine)



APR™ 550

RAP RECYCLING ORCHESTRA

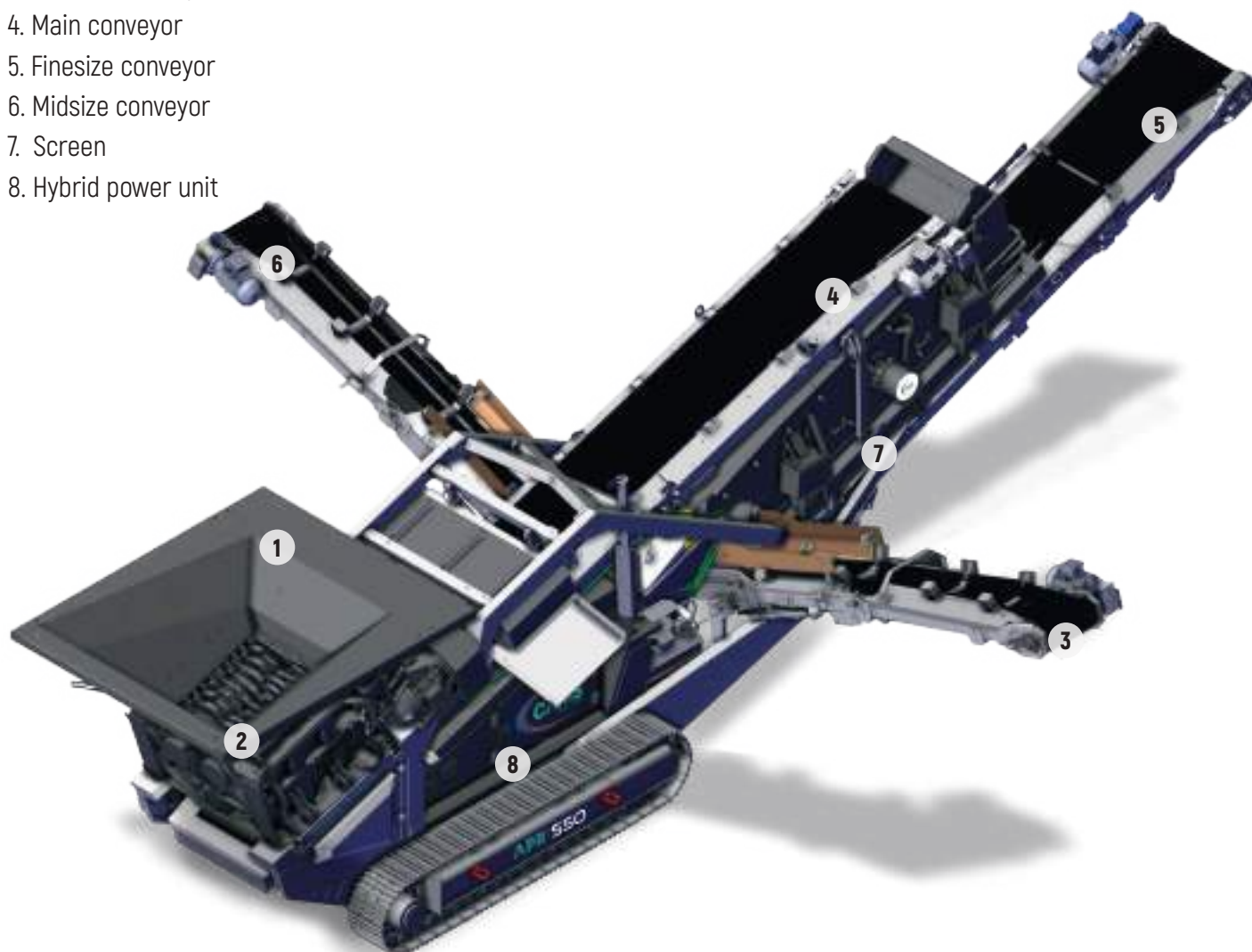
A single, integrated mobile plant is the only way to guarantee the best efficiency in recycling bitumen collection.

The patented gentle shredding action of CAMS™ machines results in fewer fines and guarantees 100% of original bitumen content reuse, the essential source of economic efficiency.

CAMS™ APR™ 550 combines the features of one shredder, one iron separator and a screening unit in a single tracked machine. Thanks to the innovative patented technology, it is the perfect solution to recycle slabs and milled asphalt with the lowest fuel consumption, running costs and environmental impact.



1. Hopper
2. Primary shredder
3. Oversize conveyor
4. Main conveyor
5. Finesize conveyor
6. Midsize conveyor
7. Screen
8. Hybrid power unit



Hopper

Capacity: 4 yds³
Length: 9' 10"
Width: 6' 7"

Primary shredder

Type: SC160
Feed opening: 3' 3" x 2' 11"

Oversize conveyor

Width: 1' 8"

Main conveyor

Width: 2' 7"

Finesize conveyor

Width: 2' 11"

Screen

Type: ES400
Deck surface: 10' 6" x 3' 3"
Decks number: 2

Midsize conveyor

Width: 1' 8"

Hybrid power unit

Engine: CAT C4.4 Tier 4 190 hp
Alternator: MeccAlte 135 kVA
Fuel tank capacity: 45 US gal

Output potential

130 US ton/h

APR™ 800

RAP RECYCLING ORCHESTRA

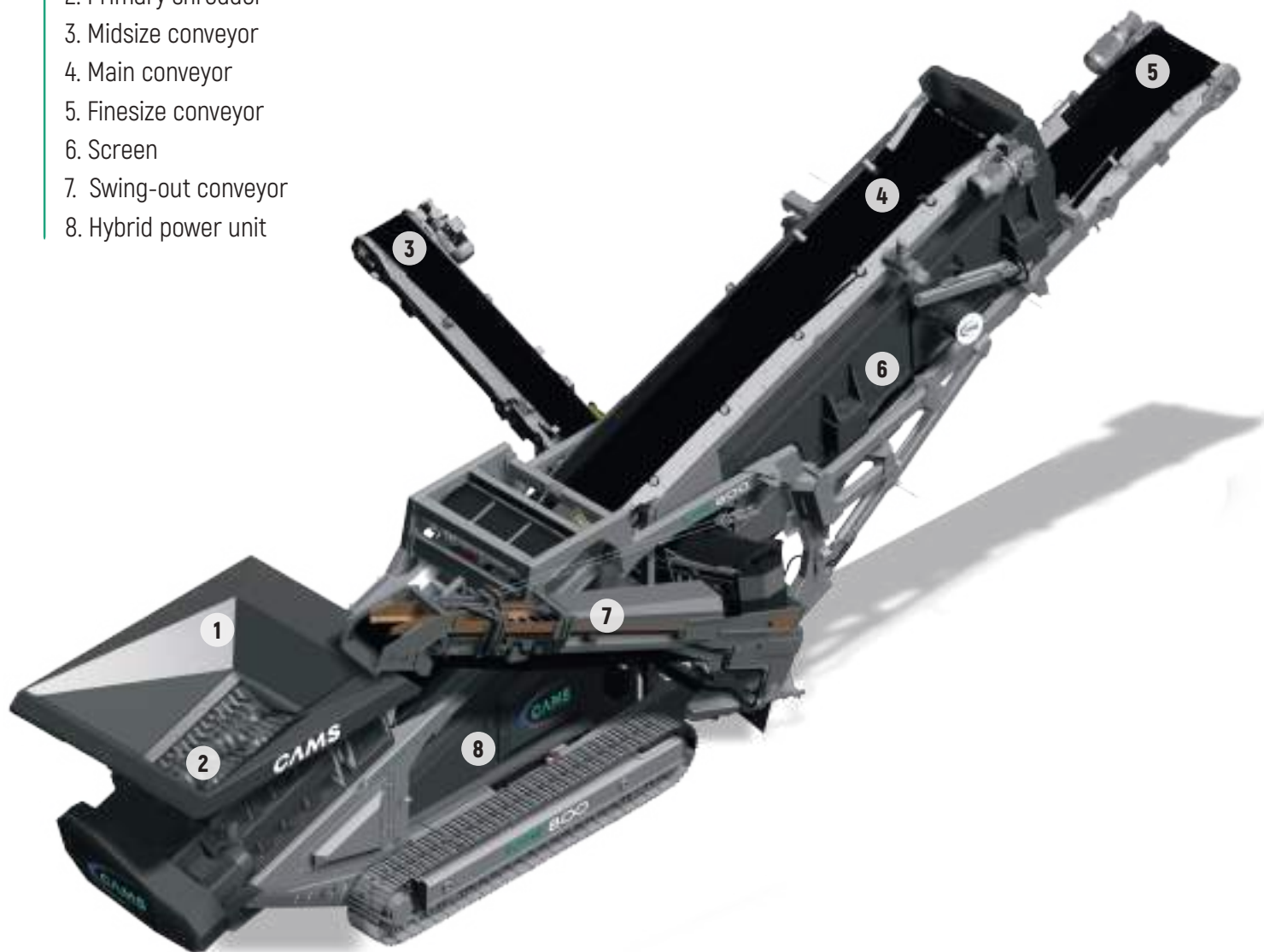
A single, integrated mobile plant is the only way to guarantee the best efficiency in recycling bitumen collection.

The patented gentle shredding action of CAMS™ machines results in fewer fines and guarantees 100% of original bitumen content reuse, the essential source of economic efficiency.

CAMS™ APR™ 800 combines the features of one shredder, one iron separator and a screening unit in a single tracked machine. Thanks to the innovative patented technology, it is perfect solution to recycle slabs and milled asphalt with the lowest fuel consumption, running costs and environmental impact.



1. Hopper
2. Primary shredder
3. Midsize conveyor
4. Main conveyor
5. Finesize conveyor
6. Screen
7. Swing-out conveyor
8. Hybrid power unit



Hopper

Capacity: 4.5 yds³
Length: 8' 2"
Width: 7' 7"

Primary shredder

Type: SC200
Feed opening: 3' 11" x 2' 11"

Midsize conveyor

Width: 1' 8"

Main conveyor

Width: 2' 7"

Finesize conveyor

Width: 2' 11"

Screen

Type: ES700
Deck surface: 11' 1" x 4' 3"
Decks number: 2

Swing-out conveyor

Width: 1' 8"

Hybrid power unit

Engine: CAT C7.1 Tier 4 265 hp
Alternator: MeccAlte 400 kVA
Fuel tank capacity: 60 US gal

Output potential

170 US ton/h

APR™ 850-2S

RAP RECYCLING ORCHESTRA

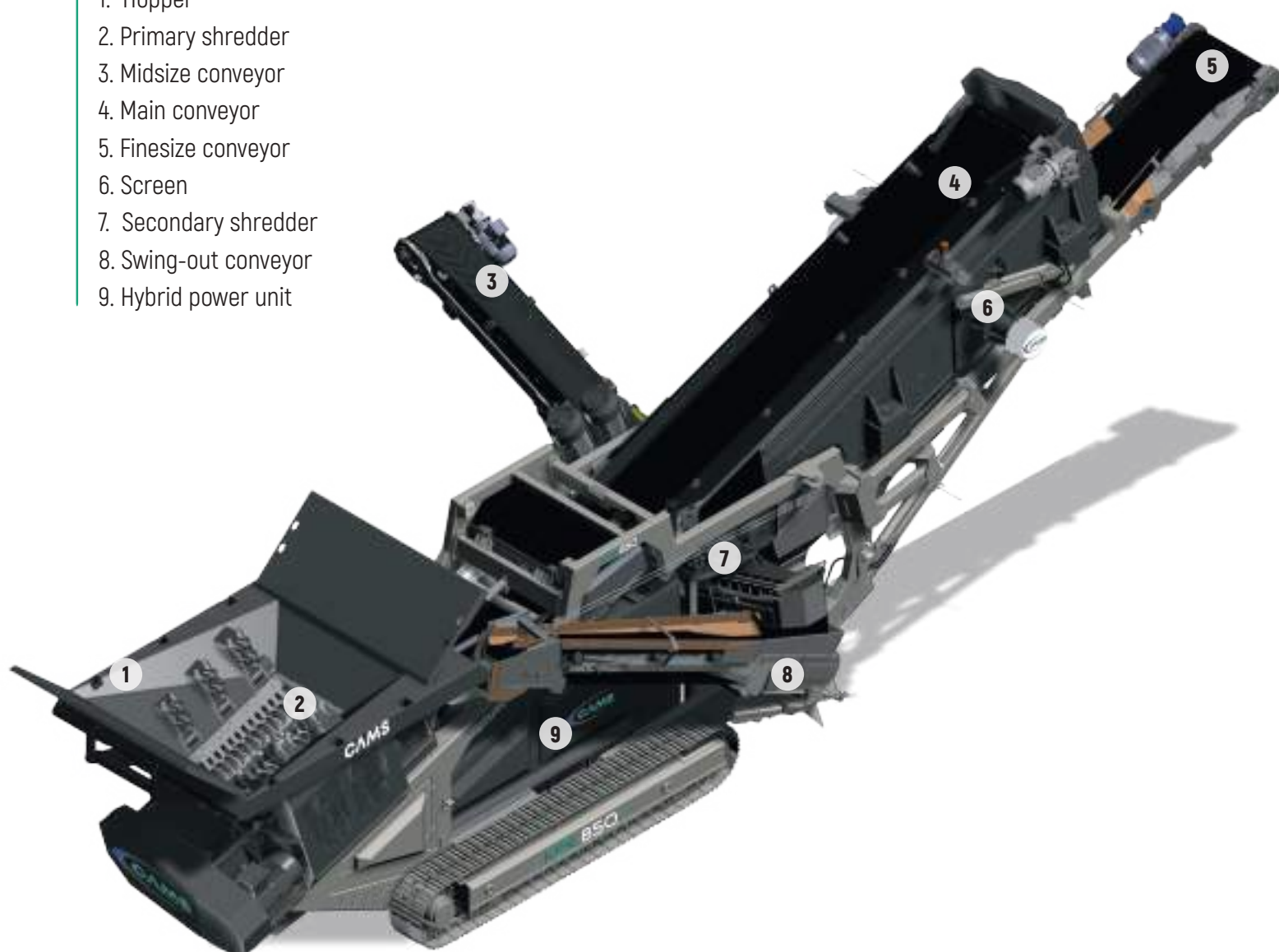
A single, integrated mobile plant is the only way to guarantee the best efficiency in recycling bitumen collection.

The patented gentle shredding action of CAMS™ machines results in fewer fines and guarantees 100% of original bitumen content reuse, the essential source of economic efficiency.

CAMS™ APR™ 850-2S combines the features of two shredders, one iron separator and a screening unit in a single tracked machine. Thanks to the innovative patented technology, it is perfect solution to recycle slabs and milled asphalt with the lowest fuel consumption, running costs and environmental impact.



1. Hopper
2. Primary shredder
3. Midsize conveyor
4. Main conveyor
5. Finesize conveyor
6. Screen
7. Secondary shredder
8. Swing-out conveyor
9. Hybrid power unit



Hopper

Capacity: 4.5 yds³

Length: 8' 2"

Width: 7' 6"

Primary shredder

Type: SC200

Feed opening: 3' 11" x 2' 11"

Midsize conveyor

Width: 1' 8"

Main conveyor

Width: 2' 11"

Finesize conveyor

Width: 2' 11"

Swing-out conveyor

Width: 1' 8"

Screen

Type: ES700

Deck surface: 14' 1" x 4' 3"

Decks number: 2

Secondary shredder

Type: SRU80c

Feed opening: 3' 11" x 2' 11"

Hybrid power unit

Engine: CAT C9.3 Tier 4 380 hp

Alternator: MeccAlte 400 kVA

Fuel tank capacity: 60 US gal

Output potential

200 US ton/h

APR™ 1000-2S

RAP RECYCLING ORCHESTRA

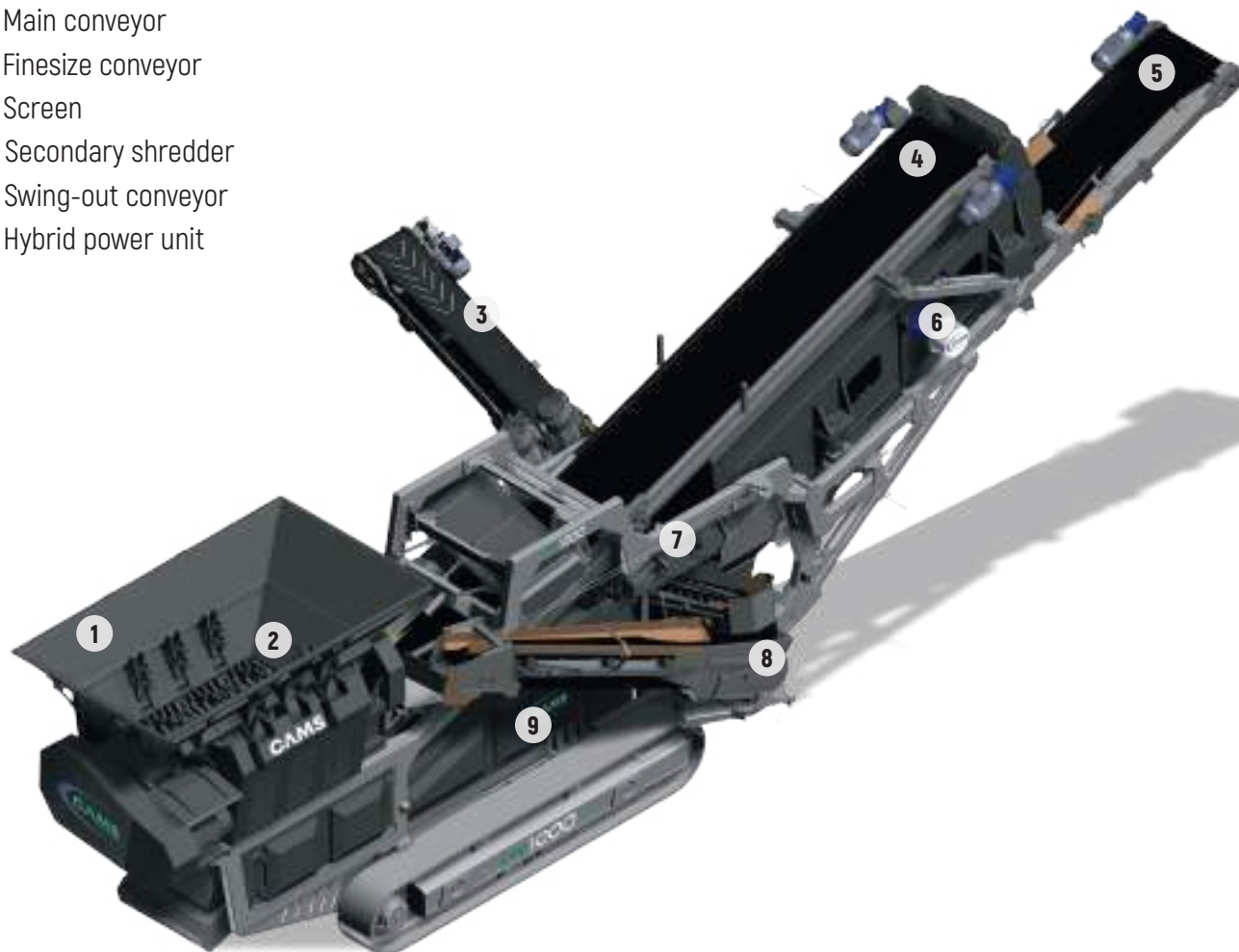
A single, integrated mobile plant is the only way to guarantee the best efficiency in recycling bitumen collection.

The patented gentle shredding action of CAMS™ machines results in fewer fines and guarantees 100% of original bitumen content reuse, the essential source of economic efficiency.

CAMS™ APR™ 1000-2S combines the features of two shredders, one iron separator and a screening unit in a single tracked machine. Thanks to the innovative patented technology, it is perfect solution to recycle slabs and milled asphalt with the lowest fuel consumption, running costs and environmental impact.



1. Hopper
2. Primary shredder
3. Midsize conveyor
4. Main conveyor
5. Finesize conveyor
6. Screen
7. Secondary shredder
8. Swing-out conveyor
9. Hybrid power unit



Hopper

Capacity: 5 yds³
Length: 11' 6"
Width: 7' 6"

Primary shredder

Type: SC260
Feed opening: 4' 11" x 2' 11"

Midsize conveyor

Width: 1' 8"

Oversize conveyor

Width: 2' 11"

Finesize conveyor

Width: 2' 11"

Recirculating conveyor

Width: 1' 8"

Screen

Type: ES900
Deck surface: 17' 5" x 4' 3"
Decks number: 2

Secondary shredder

Type: SRU80c
Feed opening: 3' 11" x 2' 11"

Hybrid power unit

Engine: CAT C9.3 Tier 4 380 hp
Alternator: MeccAlte 400 kVA
Fuel tank capacity: 60 US gal

Output potential

280 US ton/h



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.

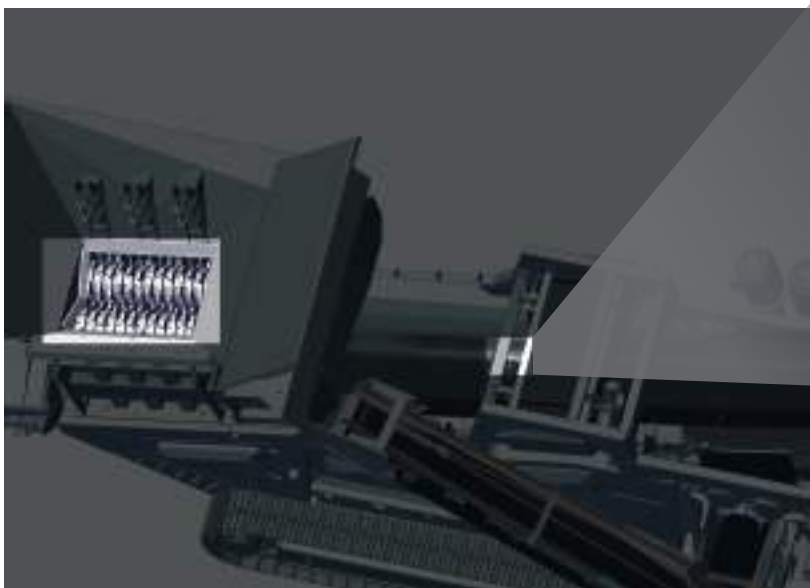
Maximum operational efficiency, automated.



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.



EXTENDED RANGE

RU-m

Recycling Unit mobile

FEATURES

- Built-in specific shredding programs depending on the type of material
- Ability to process wet material
- Low fuel consumption
- Compact transport dimension
- Low wearing
- Ability to provide electrical power on site
- Low dust and acoustic emissions

OPTIONS

- Patented hydraulic pusher system
- GPS
- Electrical weighing system
- Electrical fuel pump
- Electrical grease pump





Hybrid power

The RU-m range can operate in full electric mode for **zero emissions** (without Diesel engine)



MOBILE RECYCLING UNIT SERIES

CAMS™ RU-m series is designed in compact size. Powered by electric energy, it reaches the highest outputs without fuel consumption. Thanks to the low rotation speed of the shredding shafts produces low dust and acoustic emissions. The RU-m range processes RAP and asphalt slabs preserving 100% of original bitumen content for efficient recycling operations. RU-m series meet every possible output rate requirement, with the highest level of efficiency and reliability.

RU120_m



Feeding hopper

Capacity: 2 yds³

Length: 7' 7"

Width: 5' 7"

Primary shredder

Type: SC120

Feed opening: 2' 6" x 2' 11"

Main conveyor

Width: 1' 8"

Length: 16' 5"

Hybrid power unit

Engine: FPT F36 Tier 4 120 hp

Alternator: Linz 80 kVA

Fuel tank capacity: 45 US gal

Dimensions

Length: 23' 11"

Height: 8' 2"

Width: 8' 2"

Weight: 25,500 lbs

Output potential

90 US ton/h

RU160_m



Feeding hopper

Capacity: 4 yds³

Length: 9' 10"

Width: 6' 7"

Primary shredder

Type: SC160

Feed opening: 3' 3" x 2' 11"

Main conveyor

Width: 2' 7"

Length: 22' 12"

Hybrid power unit

Engine: CAT C4.4 Tier 4 190 hp

Alternator: MeccAlte 135 kVA

Fuel tank capacity: 45 US gal

Dimensions

Length: 21' 12"

Height: 9' 10"

Width: 8' 4"

Weight: 40,000 lbs

Output potential

130 US ton/h

RU200_m



Feeding hopper

Capacity: 4.5 yds³

Length: 10' 6"

Width: 6' 7"

Primary shredder

Type: SC200

Feed opening: 3' 11" x 2' 11"

Output potential

200 US ton/h

Main conveyor

Width: 2' 7"

Length: 22' 12"

Hybrid power unit

Engine: FPT N45 Tier 4 120 hp

Alternator: MeccAlte 100 kVA

Fuel tank capacity: 45 US gal

Dimensions

Length: 22' 4"

Height: 10' 12"

Width: 8' 4'

Weight: 41,000 lbs

RU260_m



Feeding hopper

Capacity: 5 yds³

Length: 11' 6"

Width: 6' 7"

Primary shredder

Type: SC260

Feed opening: 4' 11" x 2' 11"

Output potential

280 US ton/h

Main conveyor

Width: 2' 11"

Length: 26' 3"

Hybrid power unit

Engine: CAT C7.1 Tier 4 265 hp

Alternator: MeccAlte 300 kVA

Fuel tank capacity: 45 US gal

Dimensions

Length: 34' 7"

Height: 10' 2"

Width: 8' 2"

Weight: 49,600 lbs



EXTENDED RANGE

RU-s

Recycling **U**nit **s**tationary

FEATURES

- Built-in specific shredding programs depending on the type of material
- Ability to process wet material
- Compact transport dimension
- Low wearing
- Electric drive
- Low dust and acoustic emissions

OPTIONS

- Patented hydraulic pusher system
- GPS
- Electrical weighing system
- Electrical grease pump



Electric power

STATIONARY RECYCLING UNIT SERIES

CAMS™ RU-s series is designed in compact size. Powered by electric energy, it reaches the highest outputs without fuel consumption. Thanks to the low rotation speed of the shredding shafts produces low dust and acoustic emissions. The RU-s range processes RAP and asphalt slabs preserving 100% of original bitumen content for efficient recycling operations. RU-s series meet every possible output rate requirement, with the highest level of efficiency and reliability.

RU120s



Feeding hopper

Capacity: 2 yds³

Length: 7' 7"

Width: 5' 7"

Primary shredder

Type: SC120

Feed opening: 2' 6" x 2' 11"

Output potential

90 US ton/h

Main conveyor

Width: 1' 8"

Length: 19' 8"

Electric drive

Power: 30 kW

Dimensions

Length: 23' 7"

Height: 9' 10"

Width: 8' 2"

Weight: 17,700 lbs

RU160s



Feeding hopper

Capacity: 4 yds³

Length: 9' 10"

Width: 6' 7"

Primary shredder

Type: SC160

Feed opening: 3' 4" x 2' 11"

Output potential

130 US ton/h

Main conveyor

Width: 2' 8"

Length: 26' 3"

Electric drive

Power: 45 kW

Dimensions

Length: 28' 6"

Height: 8' 10"

Width: 8' 4"

Weight: 29,000 lbs

RU200s



Feeding hopper

Capacity: 4 yds³

Length: 10' 6"

Width: 6' 7"

Primary shredder

Type: SC200

Feed opening: 3' 11" x 2' 11"

Main conveyor

Width: 2' 7"

Length: 26' 3"

Electric drive

Power: 55 kW

Dimensions

Length: 29' 4"

Height: 8' 10"

Width: 8' 4"

Weight: 33,000 lbs

Output potential

200 US ton/h

RU260s



Feeding hopper

Capacity: 4 yds³

Length: 11' 6"

Width: 6' 7"

Primary shredder

Type: SC260

Feed opening: 4' 11" x 2' 11"

Main conveyor

Width: 2' 7"

Length: 26' 3"

Electric drive

Power: 70 kW

Dimensions

Length: 30' 6"

Height: 10' 2"

Width: 8' 4"

Weight: 33,100 lbs

Output potential

280 US ton/h

EXTENDED RANGE

SRU

Secondary Recycling Unit

FEATURES

- Built in specific shredding programs depending on the type of material
- Ability to process wet material
- Compact transport dimension
- Low wearing
- Low dust and acoustic emissions
- Recover 100% of RAP

OPTIONS

- GPS
- Electrical weighing system
- Electrical grease pump
- Magnetic separator



Electric power





SRU80



Secondary shredder

Type: SRU80

Feed opening: 3' 11" x 2' 11"

Main conveyor

Width: 1' 11"

Length: 26' 3"

Electric drive

Power: 50 kW

Dimensions

Length: 29' 10"

Height: 10' 2"

Width: 5' 10"

Weight: 12,100 lbs

SRU80c



Secondary shredder

Type: SRU80

Feed opening: 3' 11" x 2' 11"

Electric drive

Power: 45 kW

Output potential

90 US ton/h



EXTENDED RANGE

ES

Electric Screen

FEATURES

- Ability to process wet material
- Compact transport dimension
- Low wearing
- Low dust and acoustic emissions
- Recovers 100% of RAP

OPTIONS

- Feeding hopper
- GPS
- Electrical weighing system
- Electrical grease pump



Electric power

ELECTRIC SCREEN SERIES

CAMS™ ES is a range of versatile screening units driven by a three dimensional vibrating technology ensuring the highest efficiency level in material sorting.

ES300



Screen

Type: ES300

Deck surface: 8' 2" x 3' 3"

Decks number: 2

Electric drive

Power: 25 kW

Oversize conveyor

Width: 1' 8"

Length: 26' 3"

Midsized conveyor

Width: 1' 8"

Length: 26' 3"

Finesize conveyor

Width: 2' 7"

Length: 26' 3"

ES500



Screen

Type: ES500

Deck surface: 11' 6" x 3' 11"

Decks number: 2

Electric drive

Power: 32 kW

Oversize conveyor

Width: 1' 8"

Length: 26' 3"

Midsized conveyor

Width: 1' 8"

Length: 26' 3"

Finesize conveyor

Width: 2' 7"

Length: 26' 3"

ES700



Screen

Type: ES700

Deck surface: 14' 1" x 4' 3"

Decks number: 2

Electric drive

Power: 40 kW

Oversize conveyor

Width: 2' 7"

Length: 26' 3"

Midsized conveyor

Width: 2' 7"

Length: 26' 3"

Finesize conveyor

Width: 2' 7"

Length: 26' 3"

ES900



Screen

Type: ES900

Deck surface: 17' 5" x 4' 3"

Decks number: 2

Electric drive

Power: 45 kW

Oversize conveyor

Width: 2' 7"

Length: 26' 3"

Midsized conveyor

Width: 2' 7"

Length: 26' 3"

Finesize conveyor

Width: 3' 3"

Length: 26' 3"

EXTENDED RANGE

SC

Shredder Core

FEATURES

- Built in specific shredding programs depending on the type of material
- Ability to process wet material
- Compact transport dimension
- Low wearing
- Electric drive
- Low dust and acoustic emissions

OPTIONS

- Hydraulic fingers
- GPS
- Hydraulic output size adjustment
- Electrical grease pump
- Wide range of electric motors



Electric power

SHREDDER CORE SERIES

CAMS™ SC RANGE is designed and manufactured in compact size. Powered by electric energy, it reaches the highest outputs without fuel consumption. Thanks to the low rotating speed of the shredding shafts, it produces low dust and acoustic emissions.



SC120

Dimensions

Length: 8' 2"

Height: 3' 5"

Width: 8' 3"

Output potential

90 US ton/h

SC160

Dimensions

Length: 10' 8"

Height: 3' 5"

Width: 8' 3"

Output potential

130 US ton/h

SC200

Dimensions

Length: 11' 8"

Height: 3' 5"

Width: 8' 3"

Output potential

200 US ton/h

SC260

Dimensions

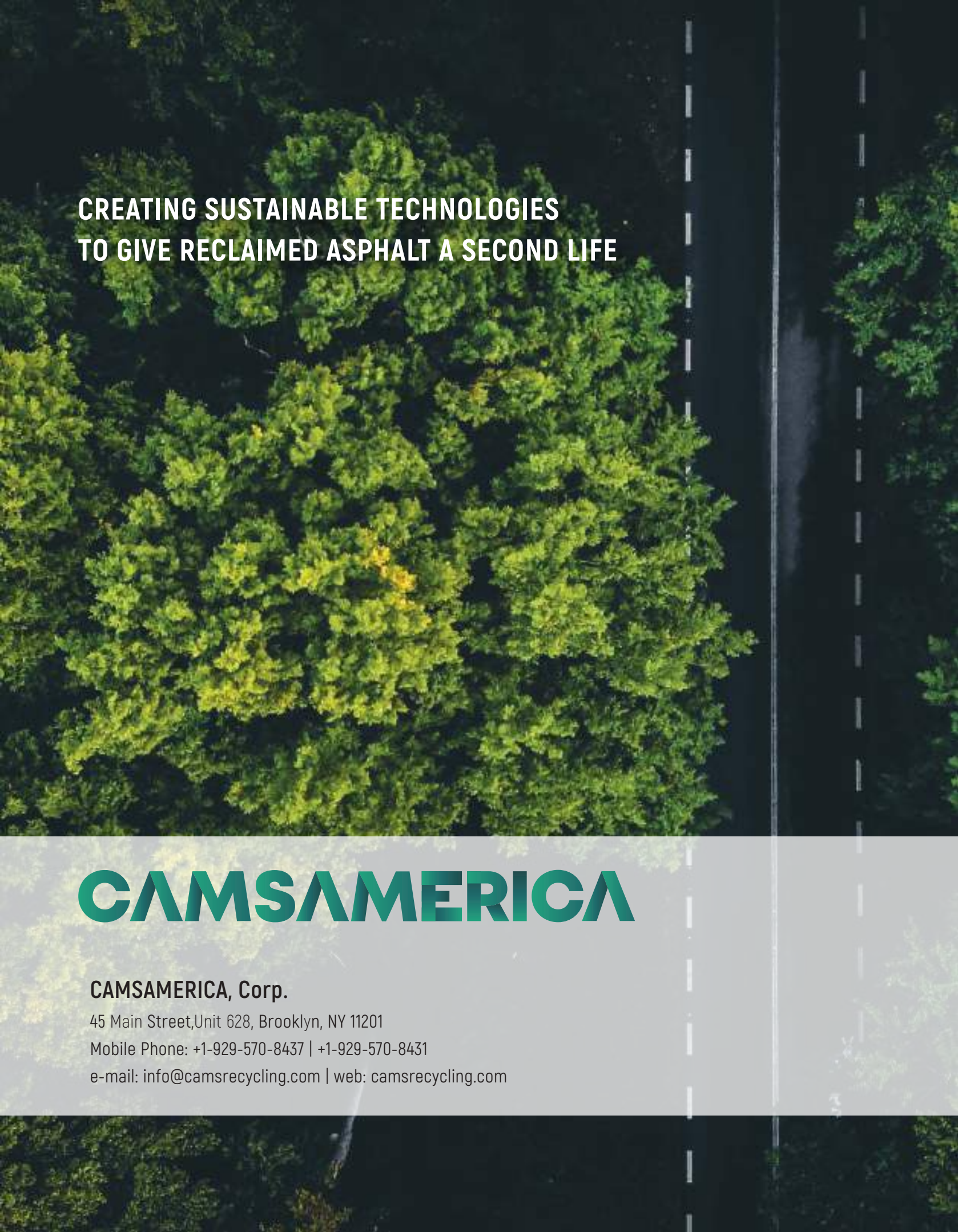
Length: 12' 8"

Height: 3' 5"

Width: 8' 3"

Output potential

280 US ton/h

An aerial photograph of a road with a dashed white line down the center. On the left side of the road, there is a large, dense green tree with some yellow leaves. The background is a dark, textured surface, possibly asphalt or a forest floor.

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

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