

EN

CONSTRUCTION

PTO DRIVEN HEADS



OPENING **NEW ROADS** EVERYWHERE



CONSTRUCTION

Our Construction line of machines bring the very latest technology to the industry. Making your road work easier, even in the most difficult conditions. Our cutting-edge engineering brings you a wide range of efficient attachments that are able to speed up and simplify the main jobs in the development of roads, highways and other infrastructure works.

INDEX

COMPANY	003
THE ADVANTAGES	004
STABILIZATION	006
STABI/FRS - STABI/FRS/HP	008
STABI/H - STABI/H/HP	010
TRANSMISSION DETAILS	012
VARIABLE DISPLACEMENT CHAMBER	018
ROTOR	020
TEETH	022
FRAME DETAILS	024
MULTITASK	028
RSL	030
MTL	032
MTM - MTM/HP	034
MTH - MTH/HP	036
TRANSMISSION DETAILS	038
VARIABLE DISPLACEMENT CHAMBER	042
ROTOR	044
TOOTH	046
FRAME DETAILS	048
WSS Basic - RSL-MTL	052
WSS High Flow - RSL/DT-MTL	053
WSS High Flow - MTM - MTH - STABI/FRS - STABI/H	054
FCS - MTM - MTH - STABI/FRS - STABI/H	056

**SUPPORTING YOUR
WORK SINCE 1989**





COMPANY

We've been working with you, sharing your efforts, your passion and your values for 25 years. This is why, today, FAE GROUP is a leading force in the design and construction of superior quality machinery for the Construction and Land Clearing sectors.

We are both proud and satisfied with the results achieved together, since 1989: constant technological innovation, excellent quality, reliable products, capillary expansion of our sales and distribution network, and an ultra-efficient service. The aim was and remains the same: to guarantee your complete satisfaction.



INNOVATION SERVING YOUR PERFORMANCE

We provide technical and construction solutions with the highest innovative content, the result of our continuous research and development activities, and the work of a strong team of highly qualified engineers and designers.



PASSION FOR THE QUALITY OF YOUR JOB

Cutting-edge production technology, highly specialized technical personnel, strict quality controls and a constant commitment to improvement are what guarantee hard-wearing, top-performance machinery, built to stand the test of time.



FLEXIBILITY AND DYNAMISM TO BRING YOU THE BEST

Our young, dynamic and flexible team, together with a highly experienced, efficient sales division, can guarantee global assistance, guiding you in choice of the best possible solution to fit your needs, and all with excellent delivery times.



NEW HORIZONS, BRINGING US CLOSER

With branches in every continent and a well-structured capillary sales network, we are able to serve a widespread market and different needs.

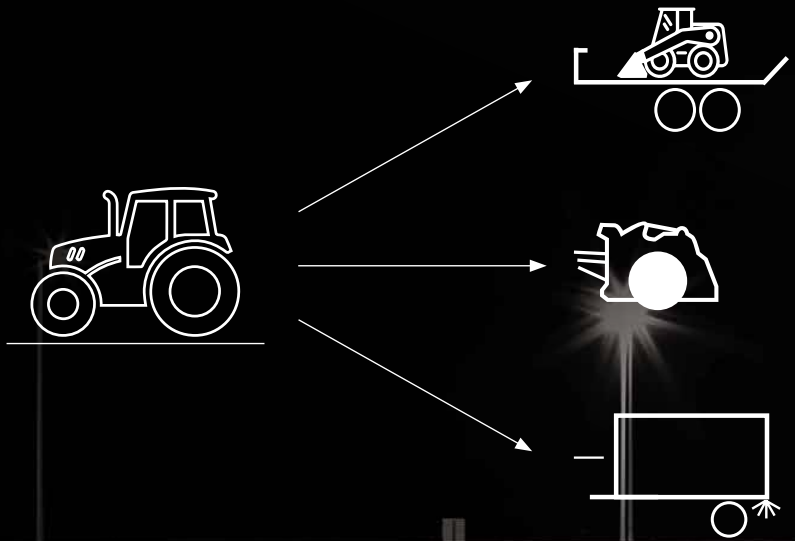


ADVANTAGES OF A FAE MACHINE

Our line of construction machines bring the very latest technology to road work, making your job easier, even in the most difficult conditions. Our cutting-edge engineering brings you a range both of versatile and functional machinery that is reliable and efficient. Each machine possesses the ability to speed up and simplify the main jobs in the construction and development of roads, highways and other infrastructure works.

VERSATILE

The tractor, which was just being used to operate other machinery, can be quickly equipped with a soil stabilizer.



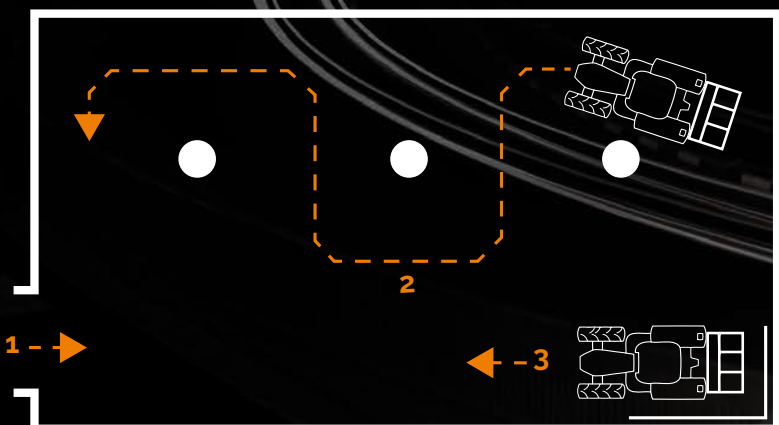
DYNAMIC

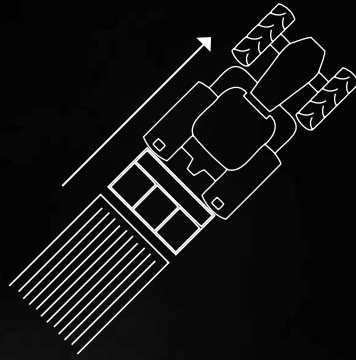
Moving from one site to another its easy and fast.



MANEUVERABLE

1. Use in areas with limited access
2. Easy to use even in the presence of obstacles
3. Perfect performance around curves and hard-to-access areas





PRACTICALITY

Impeccable results, a perfectly consolidated and leveled ground. The rear mounting allows tractor not to pass over the freshly milled ground.



VARIABLE DISPLACEMENT CHAMBER

The result is a homogeneously stabilised soil at all working depths.



PATENTED TECHNOLOGY

Thanks to a patented system of cutting-edge tools and tool holders, you will always find the solution that suits your needs best.



FULL CONTROL SYSTEM*

This option allows to set the quantity of water to be injected directly from tractor cab, according to the working depth and forward speed.

*Only available on certain models.

STABILIZER

Thanks to the design of the chamber and a variety of teeth available, our FAE stabilizer is capable of producing both refined and mixed cement even when rocks are present.



STABI/FRS
STABI/FRS/HP
Stabilizer for tractor.

p. 008

HP Min

300

HP Max

500



STABI/H
STABI/H/HP
Soil Stabilizer for tractor.

p. 010

HP Min

300

HP Max

500



COMING SOON

STABILIZATION

STABI/FRS-STABI/FRS/HP

from 300 to 500 HP



D 50 cm

PURE STABILIZER FOR TRACTORS FROM 300 TO 500 HP WITH WORKING DEPTH 50 CM.

The new **STABI/FRS (Fixed Rotor System)** is a pure stabilizer designed and built for important infrastructure projects such as highways, airports, high traffic parking lots. The additional exposure of the rotor from the frame allows a deeper penetration of the soil with less power required from the tractor. The fixed crushing chamber allows a max working depth of 50 cm (20") and guaranteed an excellent mixing capacity. This heavy-duty unit has a strong and robust structure for heavy duty applications.

STANDARD EQUIPMENT

Hydraulic rear hood
Interchangeable inner antiwear plates in Hardox®
Enclosed machine body
Inside lateral protection
Protection chains
Transmission with two side gearboxes (with oil cooling system for STABI FRS/HP)
Gearbox with freewheel
Gearbox with oil cooling system (STABI FRS/HP)
PTO shaft (STABI FRS)
PTO shaft (STABI /FRS/HP)
Friction clutches
Bolted-on rotor shafts (in forged steel)

OPTIONS

Bolted grid on rear hood
Multiple tooth options
Hydraulic top link
W style self aligning device between PTO drive shaft/gearbox
Dozing blades with spring system
Water spray system WSS High Flow
FCS full control system

1 HIGHER POWER
FOR TRACTORS
UP TO 500 HP

2 ROBUST AND HEAVY DUTY
THANKS TO THE SINGLE FRAME
AND TO SPECIAL MATERIALS

3 NEW ROTOR DESIGN
FOR A BETTER MIXING
OF BINDING AGENTS
WITH SOIL

4 ERGONOMIC DESIGN
EASY SERVICE ACCESS
OF THE MACHINE

MODEL	Power (HP)		PTO (rpm)	Working width (mm)	Total width (mm)	Weight (kg)	Max working depth (mm)		N°. teeth type A/3 + STC/FP
	min	max					Max.1	Max.2	
Stabi/FRS 225	300	400	1000	2320	2750	6300	320	500	68+8+8
Stabi/FRS 250	300	400	1000	2560	2990	6500	320	500	78+8+8
Stabi/FRS/HP 225	300	500	1000	2320	2750	6550	320	500	68+8+8
Stabi/FRS/HP 250	300	500	1000	2560	2990	6750	320	500	78+8+8

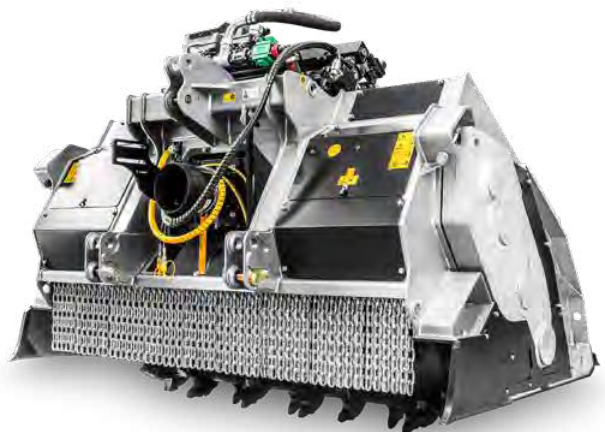
Max. 1: Only rotor penetrating ground **Max.2:** Maximum depth by digging entire machine in ground.

Both depths can be achieved in optimal working conditions.

This information refers to the machine equipped as standard. The technical data in this catalog may be altered without prior notice.



VERSATILE AND DYNAMIC



STABILIZATION

STABI/H - STABI/H/HP



from 300 to 500 HP



D 50 cm



Variable Displacement chamber

SOIL STABILIZER FOR TRACTORS FROM 300 TO 500 HP WORKING DEPTH UP TO 50 CM, AND VARIABLE GEOMETRY MIXING CHAMBER.

The STABI/H soil stabilizer, designed for 300hp to 500hp tractors, features high productivity and an innovative rotor integrated transmission. It represents the top of the Stabilization range and is the ideal partner for working on small and large construction sites. From highways, parking lots, building projects, right of way access, mining, concrete pads, and airport projects, secondary infrastructures, the STABI/H will prove its superior performance. Thanks to a **Variable Displacement chamber (mobile rotor)** and an integrated rotor transmission, this machine works at 50 cm (20 in) max depth and ensures an excellent mixing quality at all working depths. Its robust design and the new FAE patented tooth holders ensure long-lasting life and high performance on any type of working condition. The machine can be fitted with different types of teeth to better comply with the needs of different customers and also to deal with the presence of rocks.

STANDARD EQUIPMENT

Hydraulic rear hood
Interchangeable inner antiwear plates in Hardox®
Enclosed machine body
Variable crushing chamber
Inside lateral protection
Bolted on protection chains
Poly-Chain® belts transmission
Side gearbox with oil cooling system
Gearbox with freewheel
Gearbox with oil cooling system (STABI/H/HP)
PTO shaft
Friction clutches
Bolted-on rotor shafts (in forged steel)
Adjustable skids
Dozing blades with spring system

OPTIONS

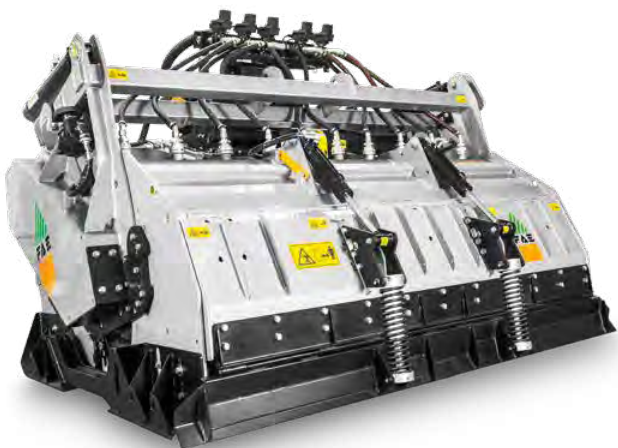
Bolted grid on rear hood
Multiple tooth options
Hydraulic top link
Water spray system WSS High Flow
FCS full control system

MODEL	Tractor (min/max)		PDF (rpm)	Working width (mm)	Total width (mm)	Weight (kg)	Max working depth (mm)		No. teeth/ type A/3+ STC/FP
	min	max					Max.1	Max.2	
STABI/H 225	300	400	1000	2290	2650	6780	105	500	68 + 8 + 8
STABI/H 250	300	400	1000	2530	2890	6980	105	500	76 + 8 + 8
STABI/H/HP 225	350	500	1000	2290	2650	6830	105	500	68 + 8 + 8
STABI/H/HP 250	350	500	1000	2530	2890	7030	105	500	76 + 8 + 8

Max. 1: Only rotor penetrating ground Max.2: Maximum depth without skids. Both depths can be achieved in optimal working conditions. This information refers to the machine equipped as standard. The technical data in this catalog may be altered without prior notice.



TECHNICAL INNOVATION



DETAILS MAKE THE DIFFERENCE

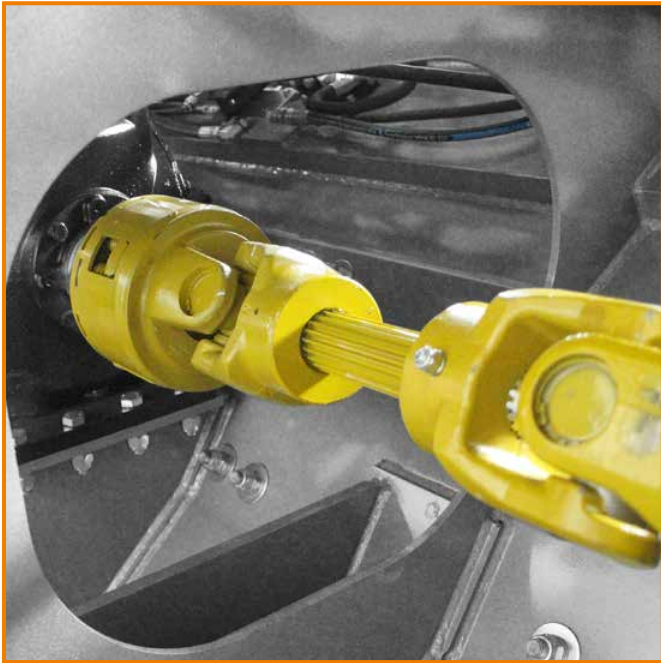
Each mechanical component is protected and easily accessible. All internal parts subject to wear and tear are easy to reach and may be replaced from the outside of the machine.





**MECHANICAL TRANSMISSION
WITH POLYCHAIN BELTS**

The dual transmission transforms the power of the engine into high-performance grinding and mixing capability. Since the rotor is independent, the side transmission housings stay above ground during operations.

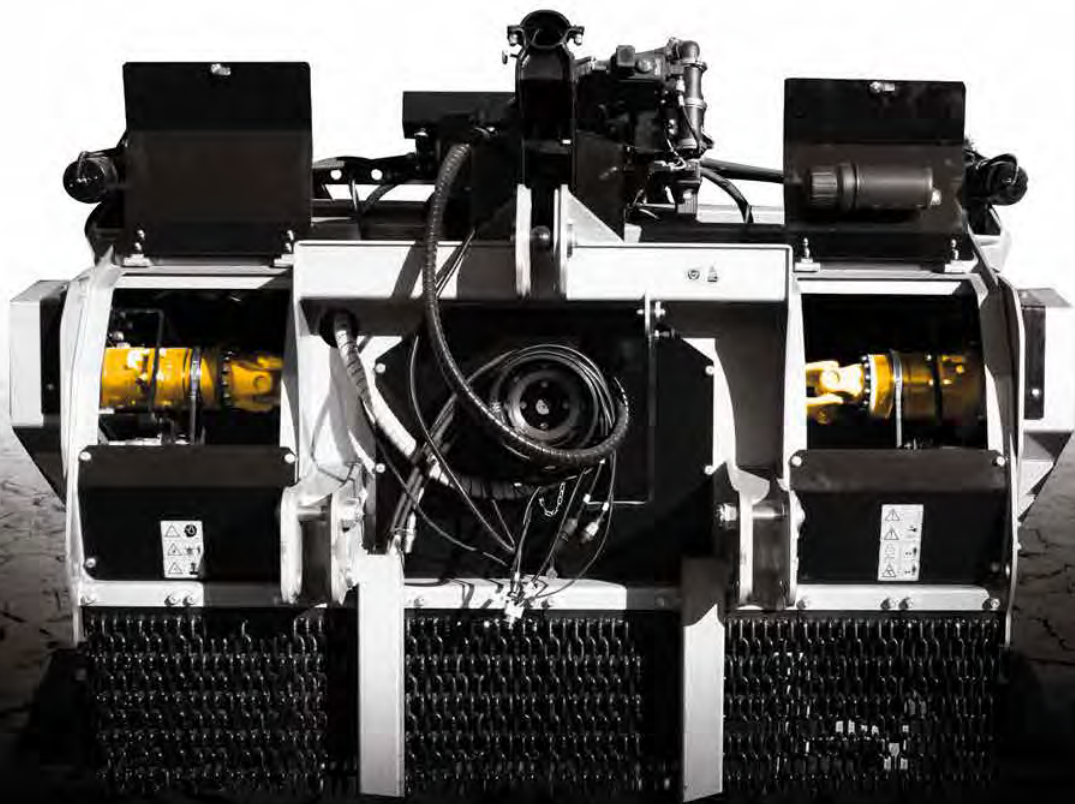


FRICTION CLUTCH



LIQUID COOLED CENTRAL GEARBOX

Only for 500 HP versions,



GEARBOX WITH DUAL LATERAL TRANSMISSION

The dual gearbox lateral transmission with polychain belt, together with a rotor-integrated transmission (available only for STABI/H model) excellently transforms the tractor power into cutting power.



EXTENSION SHAFT

Designed to transfer the PTO power to the belt driven gear box.



POLYCHAIN BELTS

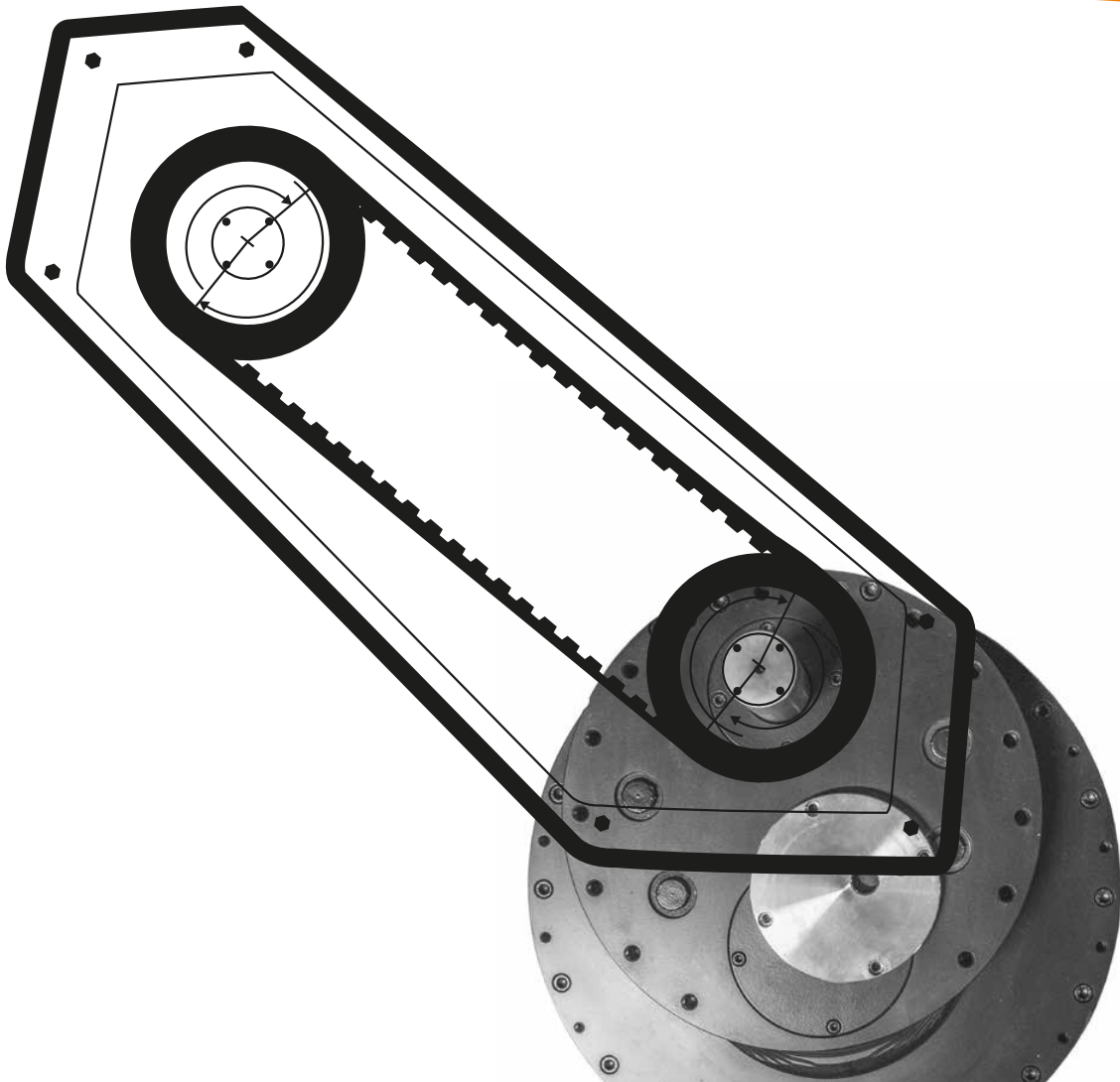
There is a polychain belt transmission with carbon reinforcements on each side of the rotor.



This dual transmission transforms tractor power into cutting power for productivity at maximum levels with minimal maintenance.

POWER IS TRANSFORMED INTO PRODUCTIVITY

- The polychain belts are different from normal belts on account of their heavy-duty strength and durability.
- Carbon reinforcements can withstand an extraordinary load while absorbing impact and loads.
- Maintenance-free compared to a standard transmission system.



COOLING SYSTEM

To guarantee the perfect operation of the machine, even in extreme conditions, we have developed a cooling system for the inner gearbox.



An air circulating system pulls clean air from the outside and ejects dirt and dust. This keeps the machine clean and as a result, reduces maintenance. The radiator is protected by a metal filter and improves cooling in all working conditions.

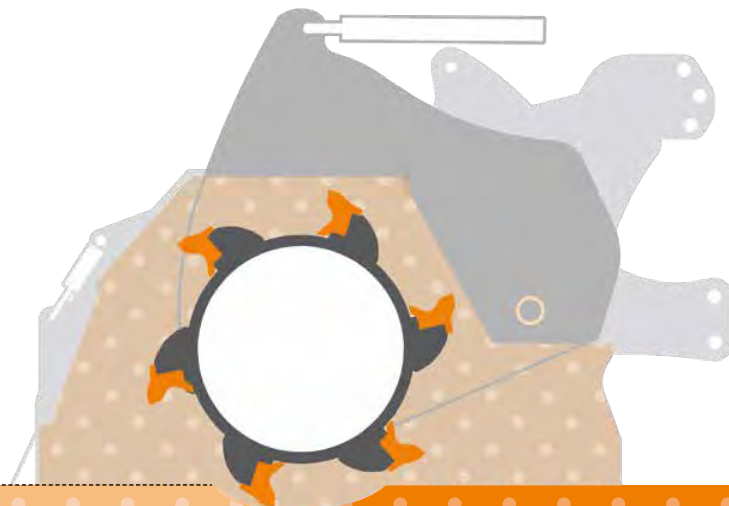


VARIABLE DISPLACEMENT CHAMBER

This technical solution is unique in the industry and is found on the STABI/H models. The Variable Displacement Chamber enables ground penetration with just the rotor. Which may be adjusted from the tractor cab. The volume of the mixing chamber, where the material is blended, is variable for the deeper the work, the larger the volume of the chamber. Compared with machines that sink into the ground with their entire frame, the variable geometry mixing chamber reduces traction forces, lowers fuel consumption, speeds operations and saves time.

- Guaranteed mixing quality of the material in any situation.
- Increased operating speeds and greater time savings.
- Reduced traction forces and fuel consumption.

DEPTH IS ADJUSTED USING 2 CYLINDERS



STABI/H: 105 mm*

*with rotor type A/3

**LOWER SIDE PROTECTION
GUARANTEES RELIABILITY
EVEN AT MAXIMUM
WORKING DEPTH**



Depth gauge to guarantee the ideal process. ○

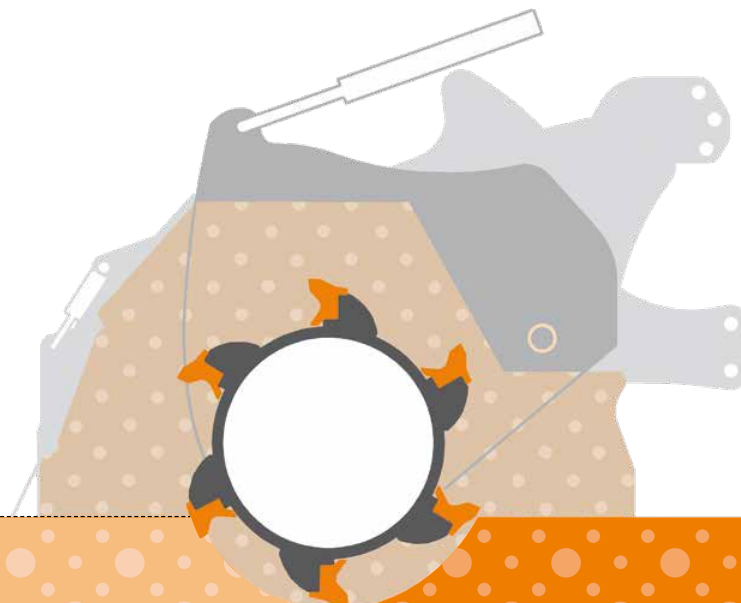
Easily visible from the cab, for precise, efficient
depth adjustment. ○



SPECIALLY DESIGNED TO ACHIEVE A CONSISTENT DEPTH

STABI/H: 400 mm*

*with rotor type A/3



A/3 ROTOR

The core of FAE technology is the rotor, which mixes the ground and evenly mixes lime or cement spread over the area to be stabilized. The special set up of the tools ensures even distribution of the forces over it's the rotor's entire width, limits stress to the structure, reduces power absorption, and enables uniform distribution of the output materials. The rotor is equipped with different types of tools depending on the application.

The rotor hubs are interchangeable and made of forged steel for excellent resistance to mechanical stress.



1

Guards with easily replaceable parts.

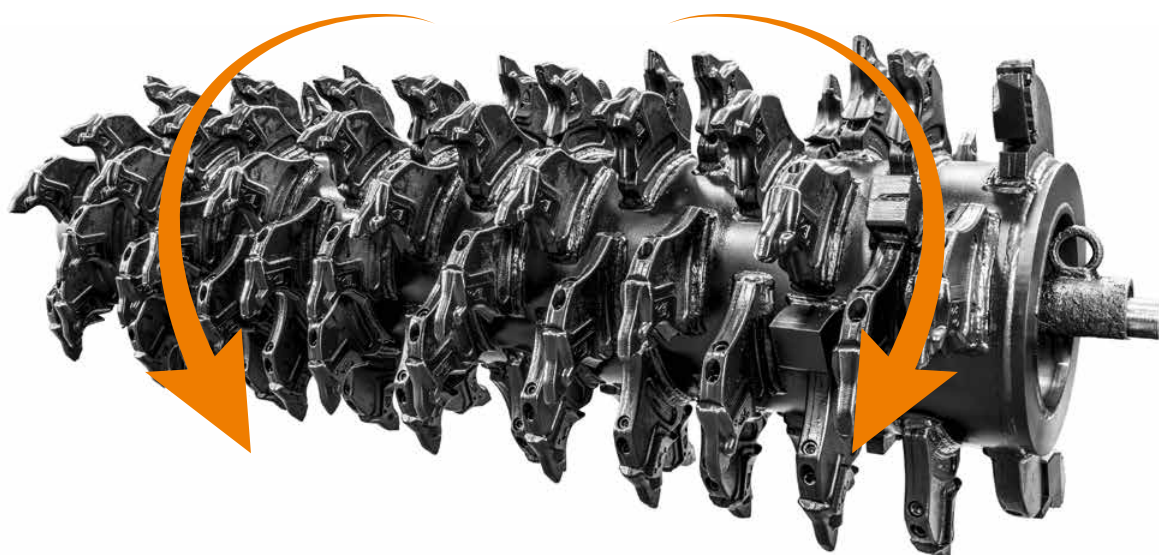
2

The ends of the rotor as well as the outside tooth holders have been equipped with wear plates to protect them from excessive wear and tear

3

A labyrinth ring system avoids dust contamination in the rotor bearing.

EVEN DISTRIBUTION AND MIXING OF MATERIALS IN THE MOST DIFFICULT SOIL TYPES.



TEETH

Our teeth and tooth holders are the result of intensive research and development. The tooth holders are all made of forged steel, and welded to the rotor automatically. Tungsten carbide (Widia) inserts offer hardness with limited wear and tear. The special design of FAE teeth guarantees the following advantages:

1

**MAXIMUM
RESISTANCE TO
MECHANICAL
STRESS**

2

**LONGER
LIFE**

3

**MAXIMUM
RELIABILITY AND
PERFORMANCE
EVEN IN TOUGH
TERRAIN**

4

**REDUCED
OPERATING
COSTS**



Teeth
A/3
(standard)



Teeth
A/3/HD
(optional)



Teeth
F/3 R44
(optional)



Teeth
F/3
(optional)

GROUND STABILIZING

Recommended for stabilization ground free of rocks, and other extreme, or abrasive materials.



STABILIZING IN PRESENCE OF ROCKS

Recommended for very abrasive conditions.



ASPHALT GRINDING

Recommended for penetration of thin asphalt and stabilizing ground free of rocks, and other, extreme, or abrasive materials*Includes tooth adaptor as well as asphalt bit



STABILIZING IN PRESENCE OF ROCKS

Recommended for very abrasive conditions, land with rocks, it is characterized by an extreme duration.



YOU CAN BE CONFIDENT OF DURABILITY

Thanks to the special design, the teeth use its shape to protect both the rotor and the tooth holder. Improved resistance to mechanical stress and maximum durability are the result of a larger support surface on the rotor.



Side scraper
STC/FP
(standard for STABI/H &
STABI/FRS)

REAR GRID

The grid on the rear door helps define the size of the output materials. Its use is advantageous in wet working conditions and with clay-based soil. The grid enables the rear door to remain more open so that the soil can flow out without losing the mixing quality.



REAR ACCESS PANEL

Designed especially with hydraulic adjustments to dose regulate the amount of outgoing material.



MATERIAL ENTRY POINTS

Specifically designed to work at a depth of up to 50 cm (20 in), the front material entry way a.k.a throat, features protective chains designed to reduce stone projection and dust.



ERGONOMICS

FACILITIES REPLACEMENT OF THE WEARING PARTS



HARDOX® STEEL - WEAR PLATES

These allow the machine to resist wear and tear and can be easily replaced as needed. This protects your investment over the long term, even in the harshest conditions

SIDE WEAR PLATES ON THE INNER SIDES OF THE FRAME

Highly resistant to wear and tear, equalling less down time due to replacement.

INSPECTION DOOR WITH KEY CLOSURE

The special design of the hatches ensures easy maintenance operations. The key closure, specially designed with an incorporated dust screen, allows the quick opening of both hatches in any situation.





SPRING LOADED LEVELING BLADE

The spring loaded leveling blade produces an even final product as a result of its engineering and design.



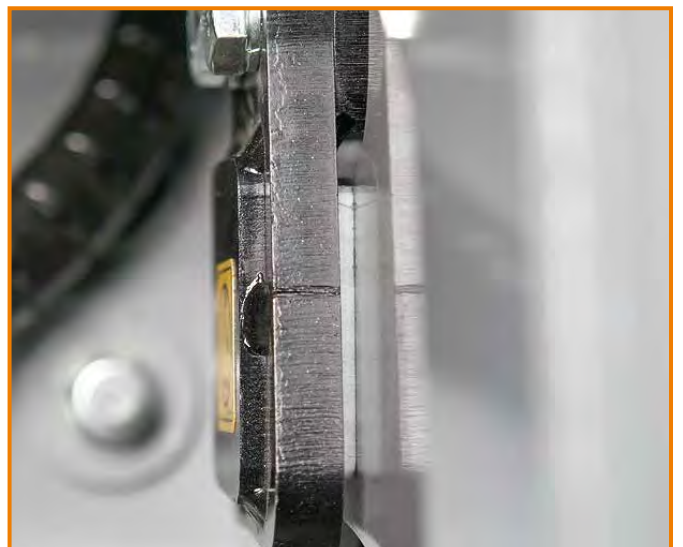
INTERNAL SECTIONAL WEAR PLATES

Excellent resistance to wear and tear thanks to use of Weldom®.

THE DIFFERENCE IS IN THE DETAILS

TEFLON INSERTS

Easily replaceable, they ensure that the two frames slide easily.





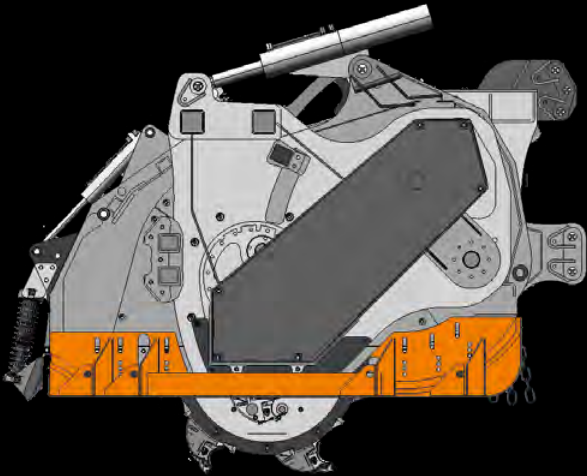
SUPPORT SKIDS
(to prevent the sinking -
only for STABI/H)

The support skids reduce the sinking of the machine, relieving the tractor of the weight of the attachment during operation. The standard skid is easy to remove from the machine; which allows you to work in depths of up to 500 mm.



BOLT-ON EXTENSIONS
(only for STABI/FRS)
Allow to perfectly cover
the working width of the machine.
Easy to change.

FOR TOP LEVEL PERFORMANCE



The support skid is easy to remove and protects the frame against wear and tear when operating up to 400 mm (16 in).



Below the support skid is the depth skid for operations from 400 to 500 mm (15-20 in) in depth. This skid also helps to protect the frame against wear and tear.

MULTITASK

Our Multitask machines offer you a matchless advantage: being able to use a single machine to perform different operations. Thanks to mixing chamber and to the wide selection of tools they can crush stones, stabilize soil and in certain conditions, shred asphalt for road building and maintenance purposes.



RSL

Multitask for tractor.

p. 030

HPMin 80

HP Max 190



MTL

Multitask for tractor.

p. 032

HP Min 140

HP Max 240



MTM - MTM/HP

Multitask for tractor.

p. 034

HP Min 240

HP Max 360



MTH - MTH/HP

Multitask for tractor.

p. 036

CV Min 300

CV Max 500

**Stabilizing
soil**



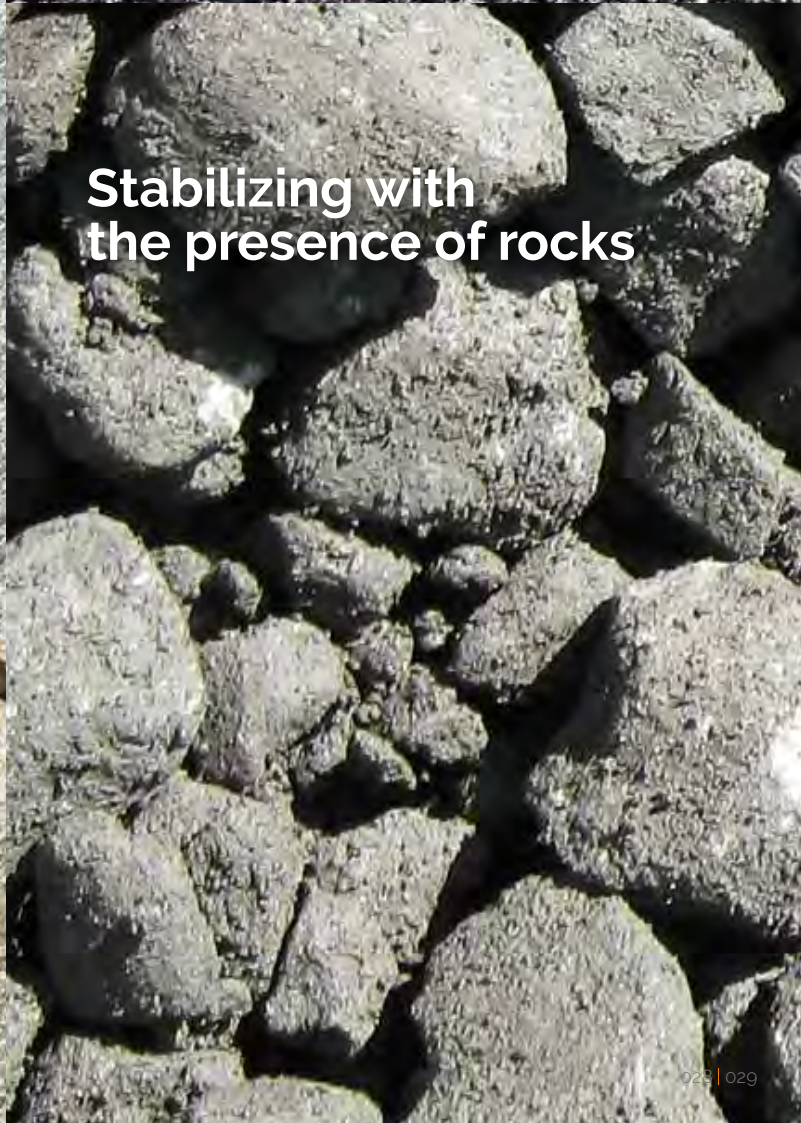
**Shredding
asphalt**



**Grinding stones
and rock slabs**



**Stabilizing with
the presence of rocks**



MULTITASKS

RSL



from 80 to 190 HP



D 28 cm

ROCK GRINDER, STABILIZER, STONE CRUSHER AND ASPHALT SHREDDER FOR TRACTOR FROM 80 TO 190 HP WITH WORKING DEPTH 28 CM.

The RSL is a multipurpose machine perfect to grind rock slabs, crush stones, stabilize soil and at the same time shred asphalt. Its compact size and minimum working width of 100 cm (39 in). make it the perfect machine for use in tight spaces. The Gear transmission allows the rotor to perform constantly at the perfect speed, while the high number of teeth guarantees excellent results, whether working with loose rocks or rock slabs. Thanks to its extreme versatility, this machine is the ideal solution for shredding small areas of asphalt during road maintenance. Hydraulic skids guarantee precision adjustment of working depth, thus shredding the asphalt layer evenly. The crushing chamber is protected on the inside by a HARDOX® covering that can be easily replaced without having to re-move the rotor, in order to provide maximum resistance to wear and tear even in the most rugged conditions.

STANDARD EQUIPMENT

Hydraulic rear hood
Interchangeable inner antiwear plates in Hardox®
Enclosed machine body
Bolted grid on rear hood
Inside lateral protection
Protection chains
Transmission with side gearbox
Gearbox with freewheel
Friction clutches (RSL/DT)
PTO shaft with cam clutch
Bolted-on rotor shafts (in forged steel)
Flat pressed welded steel counter-blades
Hydraulically adjustable skids
Dozing blades

OPTIONS

Extended 3 point linkage (RSL/DT)
Bolt-on chain's protection plates
Multiple tooth options
Hydraulic top link
Water spray system WSS Basic (RSL-MTL)
Water spray system WSS High Flow (RSL/DT-MTL)

MODEL	Tractor (min/max)	PTO (rpm)	Working width (mm)	Total width (mm)	Weight (kg)	ROTOR G/3			ROTOR R		
						Working depth (mm)		No. teeth/type G/3+STC/3/FP	Working depth (mm)		No. teeth /type R + R/HD
						Max. 1	Max. 2		Max. 1	Max. 2	
RSL 100	80–120	540	1000	1360	1600	150	280	28 +6	160	280	58 +16
RSL 125	90–120	540	1240	1600	1800	150	280	36 +6	160	280	82 +16
RSL 150	100–120	540	1480	1840	1960	150	280	42 +6	160	280	98 +16
RSL / DT 175	120–190	1000	1720	2100	2350	150	280	50 +6	160	280	122 +16
RSL / DT 200	130–190	1000	1960	2340	2500	150	280	60 +6	160	280	138 +16
RSL / DT 225	140–190	1000	2200	2580	2650	150	280	70 +6	160	280	154 +16

Max.1: Only rotor penetrating ground Max.2: Maximum depth with raised hydraulic skids. Both depths can be achieved in optimal working conditions. This information refers to the machine equipped as standard. The technical data in this catalog may be altered without prior notice.



VERSATILE AND FLEXIBLE



MULTITASKS

MTL



from 140 to 240 HP



D 28 cm



Variable Displacement chamber

ROCK GRINDER, STABILIZER, STONE CRUSHER AND ASPHALT SHREDDER FOR TRACTOR FROM 140 TO 240 HP WITH WORKING DEPTH 28 CM.

The MTL was developed for customers who own 140 to 240 HP tractors need solutions for soil stabilization, rock slab grinding, stone crushing, and asphalt shredding at a maximum depth of 28 cm (11 in). Internal frame guards are secured with screws both centrally and on the sides to ensure our machine is both robust and reliable. Our variable geometry system, adjustable grid on rear door, and an adjustable Hardox® counter-blade, makes our grinding chamber dynamic in its ability to adapt to your individual needs. The depth gauge has been redesigned to help operators efficiently monitor depth along with an in height adjustable gearbox to make adjustment regardless of the size of your tractor and the operating angle.

STANDARD EQUIPMENT

Hydraulic rear hood
Interchangeable inner antiwear plates in Hardox®
Enclosed machine body
Variable displacement chamber
Bolted grid on rear hood
Inside lateral protection
Bolted on protection chains
Transmission with side gearbox
Gearbox with freewheel
Friction clutches
PTO shaft with cam clutch
Bolted-on rotor shafts (in forged steel)
Adjustable Hardox® counter-blade
Dozing blades with spring system

OPTIONS

Hydraulic top link
Multiple tooth options
Water spray system WSS Basic (RSL/DT-MTL)
Water spray system WSS High Flow (RSL-MTL)

MODEL	Power (HP)	PDF (rpm)	Working width (mm)	Total width (mm)	Weight (kg)	ROTOR G/3		N°. teeth type G/3 + STC/3/FP	ROTOR R (Optional)		N°. teeth type R + R/HD
						Max working depth (mm)			Max working depth (mm)		
						Max. 1	Max. 2		Max. 1	Max. 2	
MTL 150	140-240	1000	1480	1820	3370	150	280	42+6	150	280	98+16
MTL 175	150-240	1000	1720	2060	3620	150	280	50+6	150	280	122+16
MTL 200	160-240	1000	1960	2300	3870	150	280	60+6	150	280	138+16
MTL 225	170-240	1000	2200	2540	4120	150	280	70+6	150	280	154+16

Max.1: with rotor only Max.2: maximum depth (maximum working depth depending on ground conditions)
 This information refers to the machine equipped as standard. The technical data in this catalogue may be altered without prior notice.



ROBUST AND **RELIABLE**



MULTITASKS

MTM - MTM/HP



from 240 to 360 HP



D 40 cm



Variable Displacement chamber

ROCK GRINDER, STABILIZER, STONE CRUSHER AND ASPHALT SHREDDER FOR TRACTOR FROM 240 TO 360 HP WITH WORKING DEPTH 40 CM.

The MTM is a multipurpose machine designed and built for use with medium-high-power tractors with the same technical features as the larger MTH model, used to stabilize soil, grind rock slabs, crush stones, and shred asphalt with a maximum working depth of 40 cm (16 in). Compact dimensions and extreme maneuverability allow work on limited surfaces that are difficult for self-propelled units to reach. They can also be easily transported from one jobsite to another. The variable geometry crushing chamber is a highly innovative solution to provide excellent crushing results. The mobile rotor, which can be hydraulically adjusted from the tractor cab, allows the volume of the crushing chamber to increase according to the working depth. Limited traction stress means reduced fuel consumption, increased operating speed and therefore, increased savings in terms of time and operating costs. The HARDOX® counter knife and rear-mounted grill system ensure that the final product is the correct size.

STANDARD EQUIPMENT

Hydraulic front hood
Hydraulic rear hood
Interchangeable inner antiwear plates in Hardox®
Enclosed machine body
Variable displacement chamber
Bolted grid on rear hood
Inside lateral protection
Protection chains
Transmission with side gearbox
Gearbox with freewheel
PTO shaft (MTM/HP)
Friction clutches
PTO shaft with cam clutch (MTM)
Bolted-on rotor shafts (in forged steel)
Adjustable Hardox® counter-blade
Adjustable skids
Dozing blades with spring system

OPTIONS

Extended 3 point linkage
Multiple tooth options
Hydraulic top link
Water spray system WSS High Flow
FCS full control system

MODEL	Tractor (min/max)	PTO (rpm)	Working width (mm)	Total width (mm)	Weight (kg)	ROTOR G/3			ROTOR R		
						Working depth (mm)		No. teeth/type G/3 + STC/3/FP + STC/FP	Working depth (mm)		No. teeth /type R + R/HD + STC/3/FP + STC/FP
						Max. 1	Max. 2		Max. 1	Max. 2	
MTM 200	240-300	1000	2053	2495	5700	250	400	94+4+4	240	400	126+20+4+4
MTM 225	240-300	1000	2293	2735	6100	250	400	106+4+4	240	400	144+20+4+4
MTM/HP 220	300-360	1000	2053	2495	5700	250	400	94+4+4	240	400	126+20+4+4
MTM/HP 225	300-360	1000	2293	2735	6100	250	400	106+4+4	240	400	144+20+4+4

Max.1: with rotor only

Max.2: maximum depth (maximum working depth depending on ground conditions)

This information refers to the machine equipped as standard. The technical data in this catalogue may be altered without prior notice.



INNOVATIVE SOLUTION



NEW

MULTITASKS

MTH - MTH/HP



from **300 to 500 HP**



D 50 cm



Variable Displacement chamber

ROCK GRINDER, STABILIZER, STONE CRUSHER AND ASPHALT SHREDDER FOR TRACTOR FROM 300 TO 500 HP WITH WORKING DEPTH 50 CM.

The flagship of the multipurpose road construction attachments turns 10-year-old and for the special occasion FAE introduces the hp version (high power). designed and built for tractors up to 500 hp. this machine is able to crush rocks, grind asphalt and do soil stabilization as well as milling slabs* - with a working depth up to 50 cm (20"). When designing this unit, a special attention was given to the development of the variable geometry rotor and the crushing chamber. Two special piston-cylinders allow a perfect synchronization of the rotor when penetrating the soil. The crushing chamber bolt-on protections and the adjustable counter blade will guarantee the highest performance in the crushing process.

STANDARD EQUIPMENT

Hydraulic rear hood
Interchangeable inner antiwear plates in Hardox®
Enclosed machine body
Variable displacement chamber
Bolted grid on rear hood
Inside lateral protection
Bolted on protection chains
Transmission with side gearbox
Side gearbox with oil cooling system (MTH/HP)
Gearbox with freewheel
Gearbox with oil cooling system (MTH/HP)
PTO shaft
Cam clutch on side PTO Cam clutch on side PTO

Bolted-on rotor shafts (in forged steel)
Hydraulic top link
Flat pressed welded steel counter-blades
Adjustable Hardox® counter-blade
Adjustable skids
Dozing blades with spring system

OPTIONS

Hydraulic front hood
Extended 3 point linkage
Centralized greasing hub
Multiple tooth options
Water spray system WSS High Flow
FCS full control system

1 HIGHER POWER
FOR TRACTORS
UP TO 500 HP

2 NEW TECHNICAL SOLUTIONS
INNOVATIVE KINEMATICS
OF THE VARIABLE GEOMETRY

MODEL	Tractor (min/ max)	PTO (rpm)	Working width (mm)	Total width (mm)	Weight (kg)	ROTOR G/3			ROTOR R		
						Working depth (mm)		No. teeth/type G/3 + STC/3/FP + STC/FP	Working depth (mm)		No. teeth /type R + R/HD + STC/3/FP + STC/FP
						Max. 1	Max. 2		Max. 1	Max. 2	
MTH 200	300-400	1000	2080	2600	6900	350	500	104+4+4	340	500	138+24+6+6
MTH 225	300-400	1000	2320	2840	7200	350	500	116+4+4	340	500	160+24+6+6
MTH/HP 225	360-500	1000	2320	2901	7800	320	500	116+4+4	320	500	138+24+6+6
MTH/HP 250	360-500	1000	2560	3141	8100	320	500	132+4+4	320	500	160+24+6+6

Max.1: maximum depth achievable with skids Max.2: maximum depth achievable without skids. This information refers to the machine equipped as standard. The technical data in this catalogue are subject to change without prior notice.* in particular working conditions.



ABSOLUTE EXCELLENCE



DETAILS MAKE THE DIFFERENCE

Each mechanical component is protected and easily accessible. All internal parts subject to wear and tear are easy to reach and may be replaced from the outside. Furthermore, all adjustments required for work are also accessible from outside.





CAST IRON HELICAL GEAR BOXES

Designed to create the least possible obstruction to penetration into the soil, the gear box is easily removeable.

It is secured by an oscillating system and independently supported by frame and rotor, thus it does not undergo stress from the frame and therefore, possible deformation.




GEAR REDUCTION SYSTEM

The single and dual gear reduction system, depending on the model, requires no forced hydraulic fluid cooling under any work condition. This component's high heat tolerance is a significant feature as it avoids the need for high maintenance parts such as oil coolers and pumps.



DUAL GEARBOX LATERAL TRANSMISSION

The dual gearbox lateral transmission (not available on the RSL 100, 125 and 150 models) perfectly transforms engine power into grinding power. Compared to a belt driven transmission, the gearbox transmission offers important advantages such as: 1) greater transmission torque, 2) less tool wear because of lower rotor rotation speeds, 3) more effective ground penetration due to smaller size.



WEAR PLATES
ON THE SIDES
OF THE ROTOR TO
**INCREASE
DURABILITY**

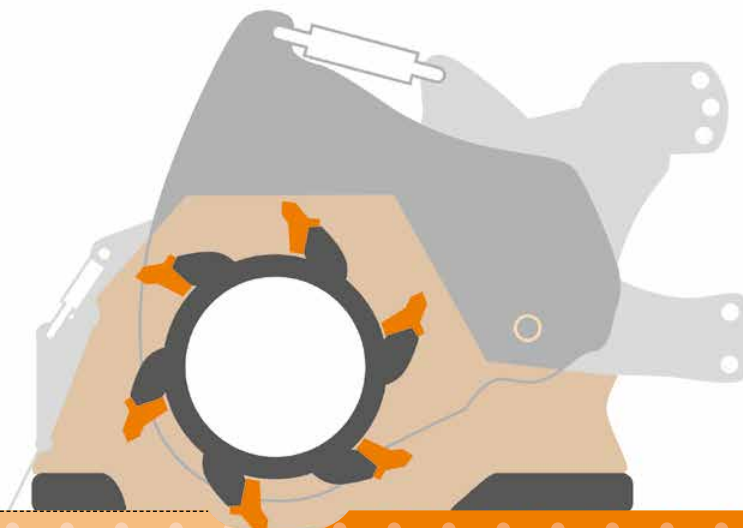
VARIABLE DISPLACEMENT CHAMBER

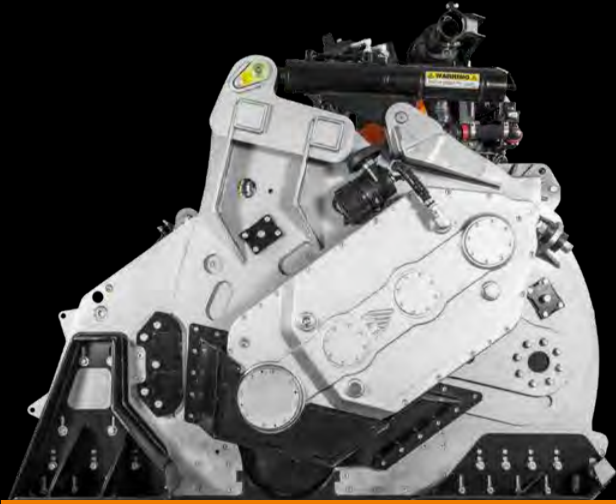
This technical solution is unique in the industry and is found on the MTL, MTM and MTH models. The Variable Geometry Crushing Chamber enables ground penetration with just the rotor, and is adjustable from the cab of the tractor. The volume of the crushing chamber, where the material is blended, is variable. Thus, the deeper the work, the larger the volume of the chamber. Compared with machines that sink into the ground with their frame, the variable geometry crushing chamber reduces resistance with the tractor, lowers fuel consumption, speeds up operations. Saving time.

- Guaranteed perfect grain size of the material in any situation.
- Reduced traction forces and fuel consumption.
- Increased operating speeds and greater time savings.

DEPTH IS ADJUSTED USING 2 CYLINDERS

MTL: 0 cm*
MTM: 4,5 cm*
MTH: 8,5 cm*
*with G/3 rotor





**BOTTOM SIDE PROTECTION
FOR GUARANTEED
RELIABILITY, EVEN AT
MAXIMUM WORKING
DEPTHS**



Depth gauge to guarantee the ideal process. →

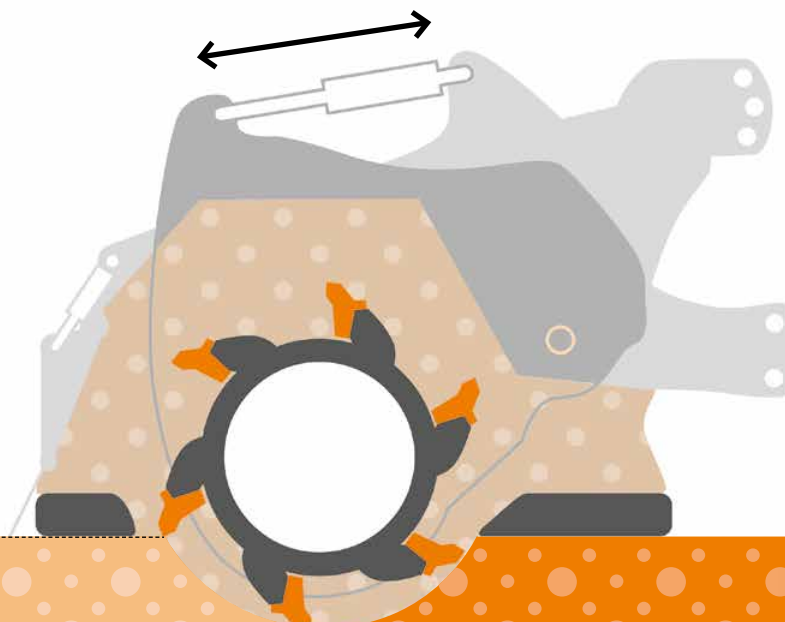
Easily visible from the cab, for precise, efficient depth adjustment. →

← Newly engineered rotor depth control system.



SPECIALLY DESIGNED TO ACHIEVE A CONSISTENT DEPTH

MTL: 15 cm*
MTM: 25 cm*
MTH: 35 cm*
*with G/3 rotor



CONSTRUCTION DETAILS

The heart of FAE technology is the rotor, which grinds rocks and asphalt, turns the ground and evenly mixes lime or cement that is spread over the area to be stabilized. The patented tooth pattern ensures even distribution of the forces over its entire width, limits stress to the structure, reduces power absorption and enables uniform distribution of the output materials.

The rotor hubs are interchangeable and made of forged steel for excellent resistance to mechanical stress.



- ① Guards with easily replaceable parts.
- ② The ends of the rotor and outside tooth holders have wear plates to protect from excessive wear.
- ③ A labyrinth ring system avoids dust contamination in the rotor bearing.
- ④ Rotors are equipped with different types of tools depending on the application.



TEETH

Teeth and teeth holders are the result of intensive research and development at FAE. The teeth holders are all made of forged steel and assembled to the rotor using automated welding. Tungsten carbide (Widia) inserts offer hardness with limited wear. The special design of FAE teeth guarantees the following advantages:



**MAXIMUM
RESISTANCE TO
MECHANICAL
STRESS**



**TOOLS LAST
LONGER**



**MAXIMUM
RELIABILITY AND
PERFORMANCE
EVEN IN TOUGH
TERRAIN**



**REDUCED
OPERATING
COSTS**

Cutting-edge tooth design ensures the utmost protection for the tooth holder, reducing operating costs. Improved resistance to mechanical stress and maximum durability are the result of a larger support surface on the rotor.



Interchangeable tools that can be easily replaced are symbol of efficiency in every application. A leading-edge technical solution means that the same asphalt shredding tooth (R/44) can be fitted to each rotor.

ROTOR G/3



ROTOR R



ROTOR G/3



type tool
G/3
(standard)



type tool
R 44
(optional)



type tool
STC/FP
(side scraper)



type tool
STC/3/FP
(side scraper)

GROUND STABILIZING

type tool G/3
type tool R 44



STABILIZING IN PRESENCE OF ROCKS

type tool G/3



STONE CRUSHING

type tool G/3



ASPHALT GRINDING

type tool G/3
type tool R 44



STUMP GRINDING

type tool G/3



ROTOR R



type tool
R 65



type tool
R/HD 65
(optional)



type tool
R 44
(optional)



type tool
STC/FP
(side scraper)



type tool
STC/3/FP
(side scraper)

GROUND STABILIZING

type tool R 65
type tool R/HD 65
type tool R 44



STABILIZING IN PRESENCE OF ROCKS

type tool R 65
type tool R/HD 65



STONE CRUSHING

type tool R 65
type tool R/HD 65



ASPHALT GRINDING

type tool R/HD 65
type tool R 44



SLAB GRINDING

type tool R/HD 65



REAR GRID

The grid on the rear door helps define the size of the of the final product. It is easy to adjust mechanically from the outside using the adjustment slots. Its use is indispensable when working on clay-like soils that have a large amount of surface rocks. The grid enables the rear door to be opened so that the soil can flow out without losing the regulation of the average size of the final product.



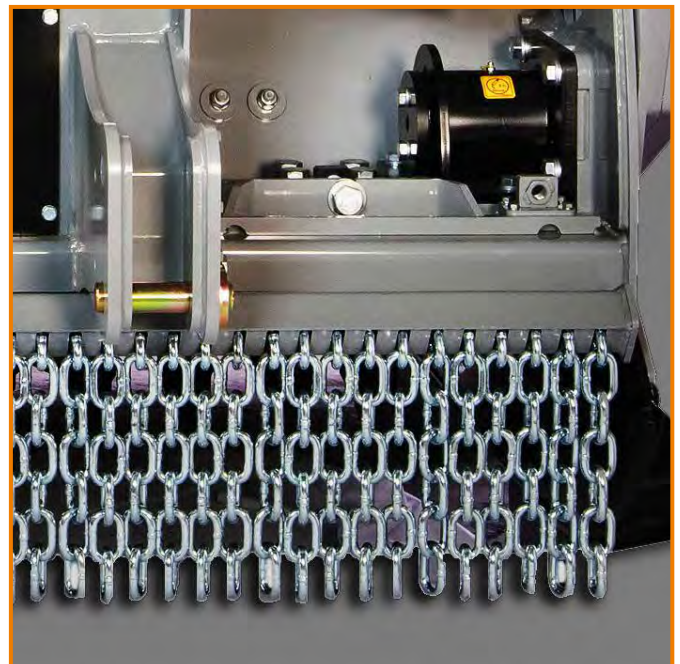
REAR DOOR

With hydraulic adjustment to regulate the quantity of material in output.



MATERIAL ENTRY POINT

Comes with hydraulic adjustment to stop rocks from being ejected along the length of the tractor.





INSPECTION HATCH WITH KEY CLOSURE

The special design of the hatches ensures easy maintenance and inspections.

The key closure, specially designed with an incorporated dust screen, allows the quick opening of both hatches in any situation.

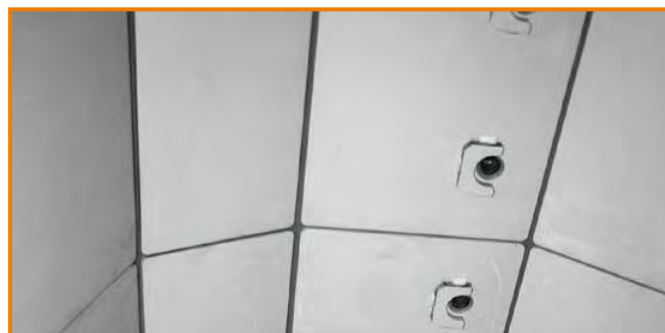
SIDE WEAR PLATES

On the inner side of the frame are easily replaceable without having to remove the rotor, while ensuring excellent resistance to wear and reduce replacement intervals.



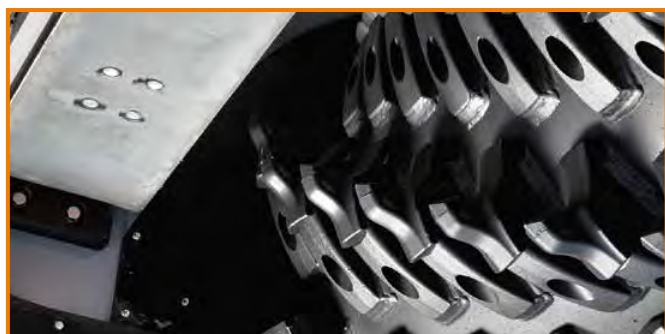
HARDOX® SECTIONAL WEAR PLATES

Internal HARDOX® guards against wear and tear. The sectional plates are easy to replace without having to remove the rotor.



HARDOX® COUNTER BLADE

Helps to achieve the desired final product size. It is easily replaceable, due to its attachment screws, thus making maintenance fast and easy.



COUNTER BLADE ADJUSTMENT SYSTEM

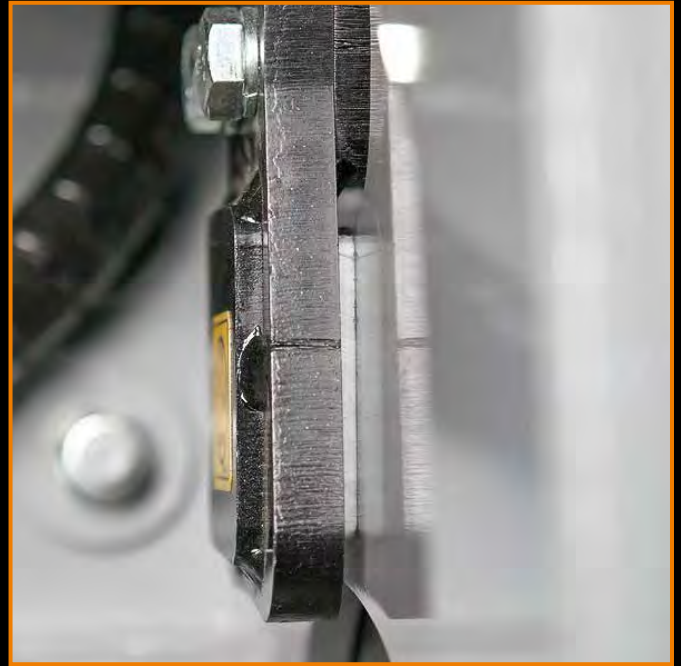
Adjustment system that enables the rapid change of position of the HARDOX® counter blade depending on material size requirements.





SUPPORT SKIDS (to prevent sinking)

The support skids are height adjustable and easily removable to increase working depths. Additional optional features are not necessary for the machine to penetrate to its maximum depth (support skids assembled).



TEFLON INSERTS

Easily replaceable. They ensure that the two frames slide easily.

THE DIFFERENCE IS IN THE DETAILS

WATER-SYSTEM SELF-PRIMING PUMP

This system provides a consistent flow rate throughout the water system, no matter the slope of the machine.





SPRING LOADED LEVELING BLADE

The spring loaded leveling blade produces an even final product as a result of its engineering and design.



STRUCTURAL PLATES WELDOX®

To ensure high strength and easy handling.

FOR TOP LEVEL PERFORMANCE



CONTROL PANEL

This is fitted as standard on all machines (RSL & MTL excluded). Thanks to 4 indicator lights that signal any failures, the Control Panel allows the oil pressure and temperature to be monitored, together with the alignment of mobile rotor cylinders, for safer machine operations.

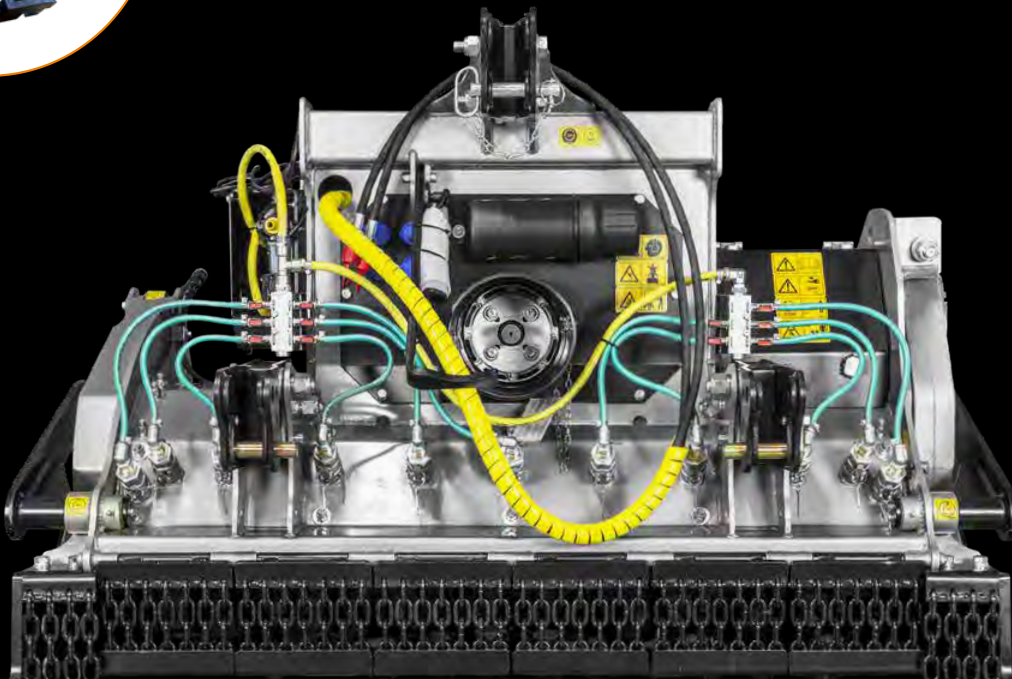
Water Spray System Basic

(WSS Basic for RSL - MTL)

Compact, convenient and simple system for those who want to carry out asphalt milling and recycling operations. Thanks to a 200-liter tank placed directly on the tractor's front lift and an electric pump that can be operated directly from the tractor cab, the water flow will cool the tools during asphalt processing.



- Switch (on/off) located in the tractor cab. Thanks to this switch, it is possible to easily monitor, from the tractor cab, the instantaneous value of the liters of water delivered and the overall value from the beginning of the operations.
- Flow of a few litres per minute 3-7 l/min.



WATER TANK

(POSITIONED ON THE TRACTOR'S FRONT MOUNT)

Tank volume 200 litres.

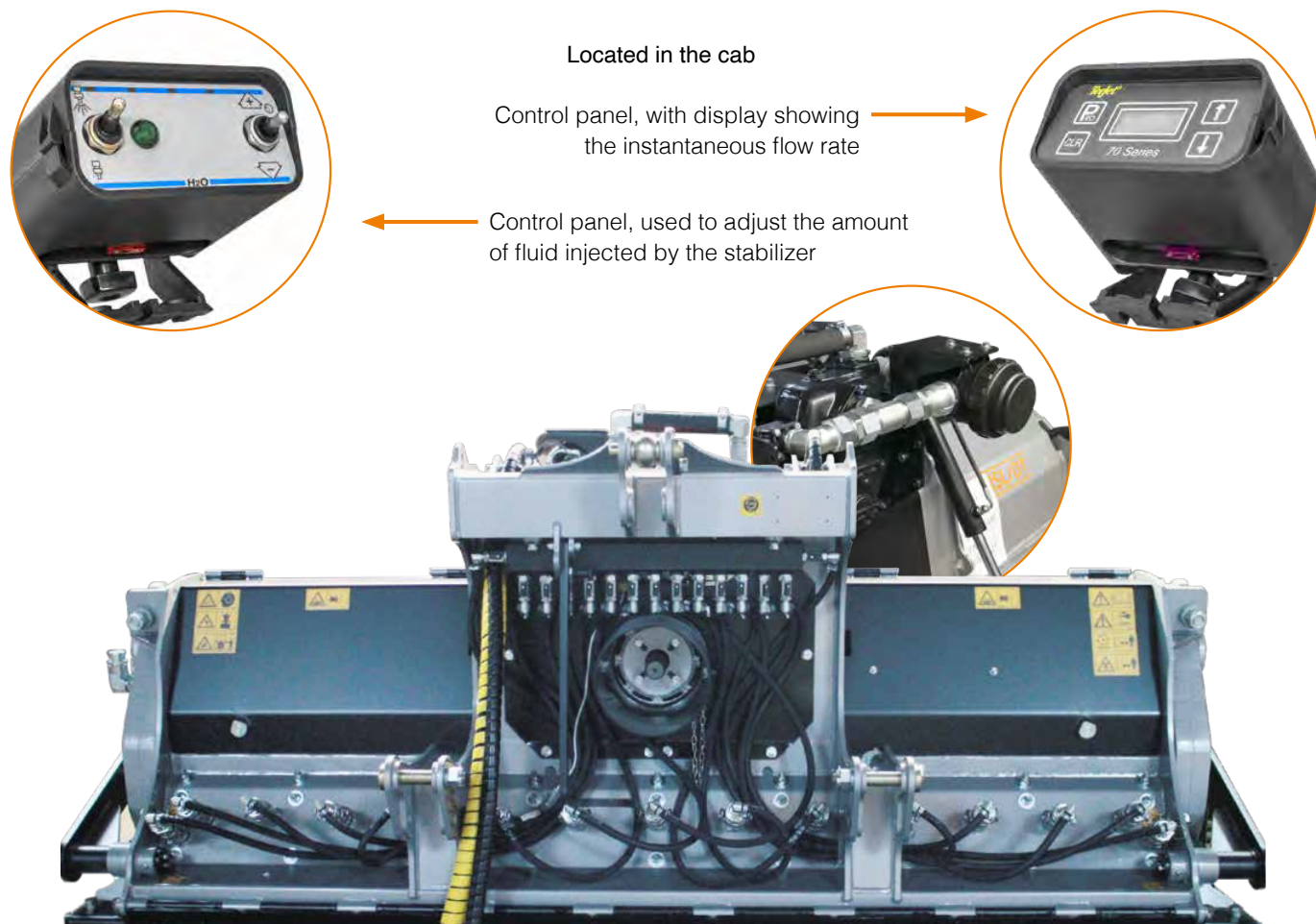


- System available For models RSL and MTL

Water Spray System High Flow

(WSS Higt Flow for RSL/DT - MTL)

Water system operated by a hydraulic motor and equipped with a pump with a high flow rate, it has been designed to allow for better mixing; in fact, the high flow rate of the pump not only limits the temperature of the tools, making asphalt milling and recycling operations possible, but also favors the increase of the moisture of the mixed soil, making the machine suitable for stabilization works.



WSS High flow available for RSL/DT & MTL

Data sheet	Minimum flow rate	Maximum capacity	Maximum pressure
Centrifugal pump	65 l/min	230 l/min	5 bar
Hydraulic engine	-	50 l/min	200 bar
	No. nozzle	Minimum flow rate	Maximum capacity
RSL/DT 175	11	110 l/min	185 l/min
RSL/DT 200	13	115 l/min	215 l/min
RSL/DT 225	15	135 l/min	230 l/min
MTL 150	8	70 l/min	145 l/min
MTL 175	8	70 l/min	145 l/min
MTL 200	10	90 l/min	170 l/min
MTL 225	15	135 l/min	230 l/min

Water Spray System High flow

(WSS for MTM - MTH - STABI/FRS - STABI/H)

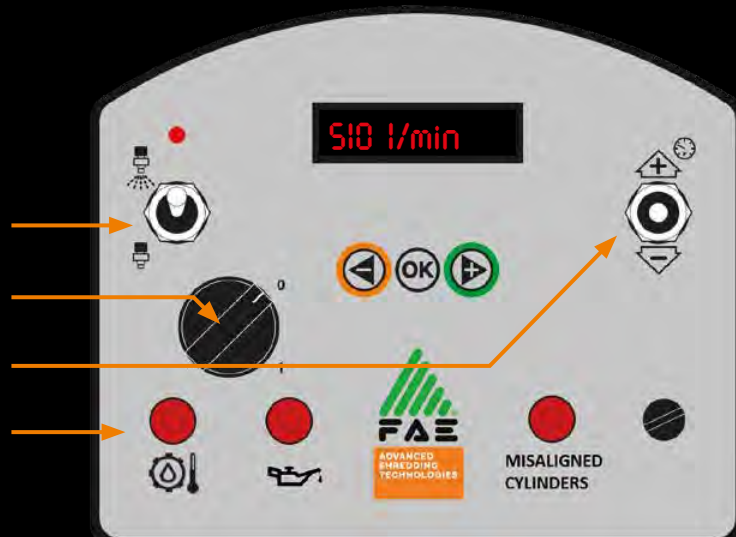
Thanks to the control panel and display showing the water flow rate, it is possible to easily monitor and adjust, from the tractor cab and in complete safety, the instantaneous value of the liters of water delivered and the overall value from the beginning of the operations.

Water dispensing
on (nozzle up) or off (nozzle down)

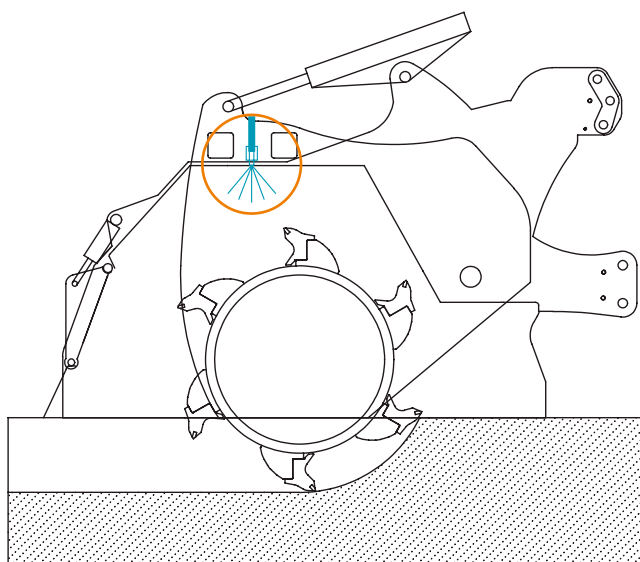
Panel display on / off

Water capacity adjustment l/minute

Check Panel functions



- The individual nozzles are independent from one another.
- It is possible to decide the number of nozzles being operated.
- A vast choice of nozzle type, easily exchangeable according to the amount of water.

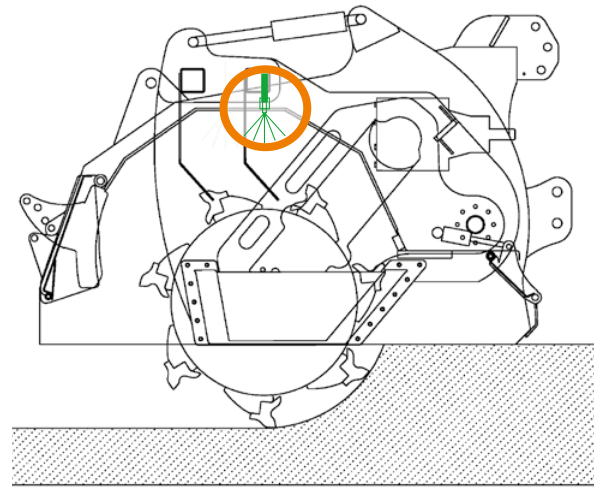


MIXING FUNCTION (ONLY FOR STABILIZE MACHINES OR MULTITASK MACHINES)

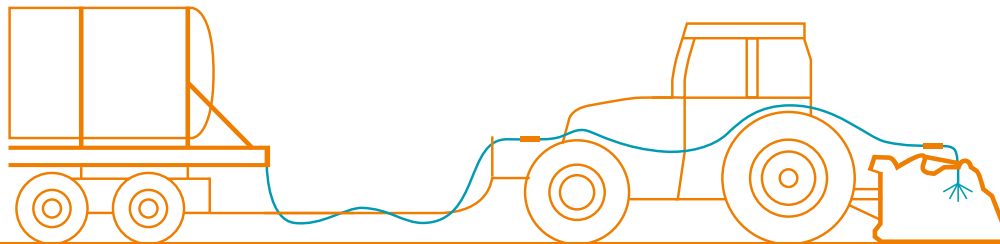
This function increases the moisture level in the soil, improves mixing with the stabilising agent during stabilisation operations and optimises the results of the consolidation work. It also helps to ensure proper compaction. This is the ideal solution even for liquid binders mixed directly in the mixing chamber.

COOLING FUNCTION (ONLY FOR MULTITASK MACHINES)

This function reduces heat build up in the teeth during asphalt grinding operations, thus avoiding overheating of tools and other rotor parts. It greatly reduces tool wear and is recommended for asphalt, cement and very hard rock grinding.



ALL MACHINES CAN BE EQUIPPED WITH A WATER INJECTION SYSTEM (EVEN AT A LATER DATE)



MTM - MTH - STABI/FRS - STABI/H	Capacity from single nozzle at 3 Bar	Capacity from system
Optional nozzle "1" (80° - 20 L/min)	7.9 L/min	65-110 L/min
Optional nozzle "2" (80° - 40 L/min)	15.8 L/min	115-235 L/min
Optional nozzle "3" (80° - 60 L/min)	24 L/min	150-330 L/min
Standard nozzle (80° - 100 L/min)	39 L/min	210-500 L/min
Optional nozzle "4" (80° - 150 L/min)	59 L/min	240-580 L/min
Optional nozzle "5" (80° - 200 L/min)	79 L/min	260-640 L/min

FCS Full Control System

(FCS for MTM - MTH - STABI/FRS - STABI/H)

The FAE automatic injection system, FCS, is a cutting-edge system built for excellent supply and distribution of water and/or to stabilize the fluid binding agent. Using this intuitive system, the operator is able to establish the exact amount of fluid from the display, based on the road surface (l/m²) or mixing volume (l/m³).



The advanced FCS is automatically calibrated according to the speed and depth of the job. The machine's sensors also guarantee the correct, automatic operation of this cutting-edge system.

The material is mixed to the moisture ratio required to achieve perfect stabilization.

Compared to manual adjustment, the FCS leaves no room for error and guarantees the best possible results in every application.

The machine sensors ensure correct and automatic operation of this first-class system.

The system constantly monitors forward feed speed through the ISOBUS connection on the tractor, or via optional radar sensor, while other sensors control the working depth.

A magnetic flow meter guarantees the capacity required

HELPING YOU MAKE THE RIGHT CHOICES



SETTING STAGE

This allows you to choose the perfect nozzles for the job during the initial stages.



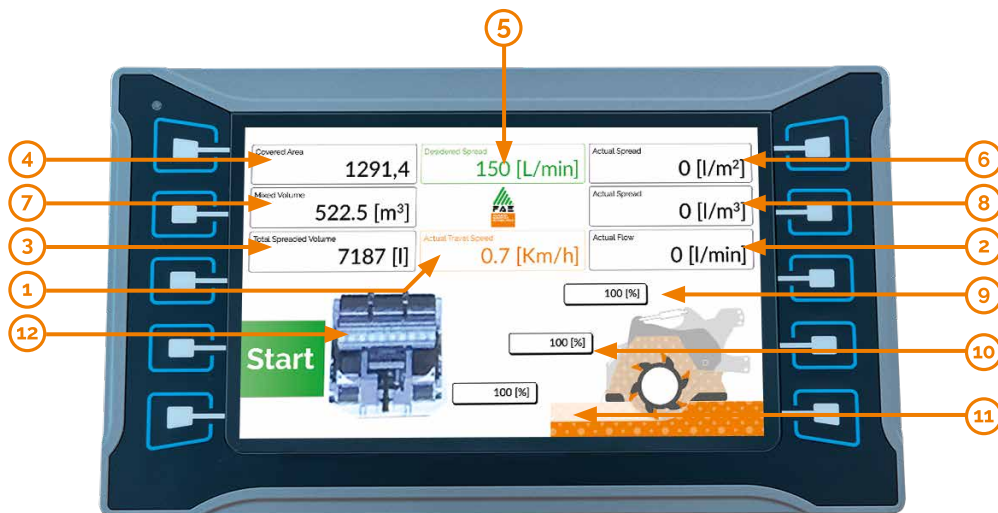
WORK STAGE

All of the machine's vital parameters are monitored and recorded



FINAL WORKING STAGE

Checks of all final data, with easy access to your own device via USB port (e.g., m2 and m3 processed, water injected, etc.).



1. Current speed
2. Current injection flow
3. Total flow from the start of the job
4. Area covered
5. Delivery requirement (l/m²)
6. Current delivery (l/m²)

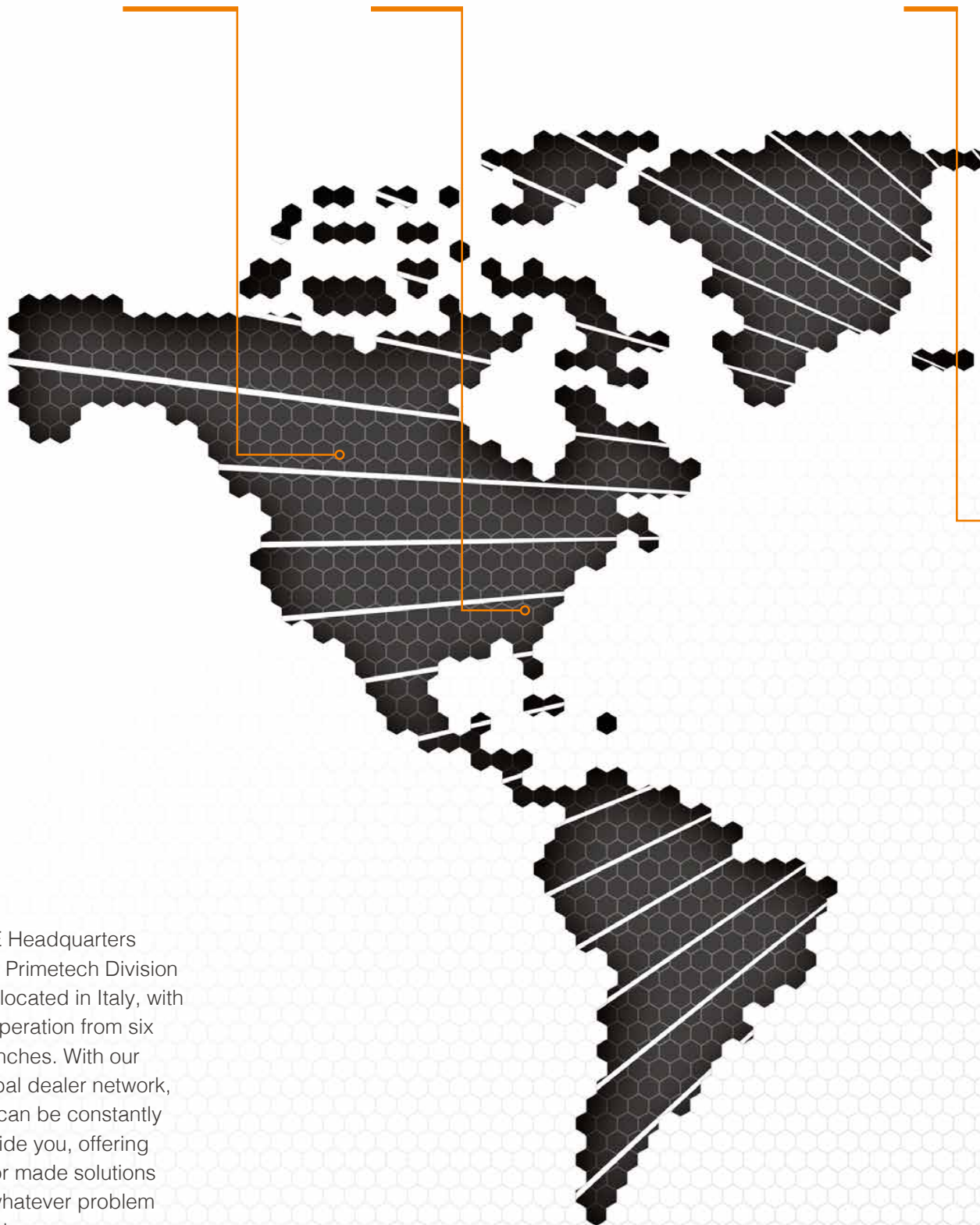
7. Volume mixed
8. Current delivered (l/m³)
9. Rotor movement percentage
10. Percentage of rear panel opening
11. Working depth
12. Number of nozzles open

OUR WORLDWIDE BRANCHES

**PRIMETECH
SHREDDING**
EDMONTON

FAE USA
ATLANTA

FAE FRANCE
LYON



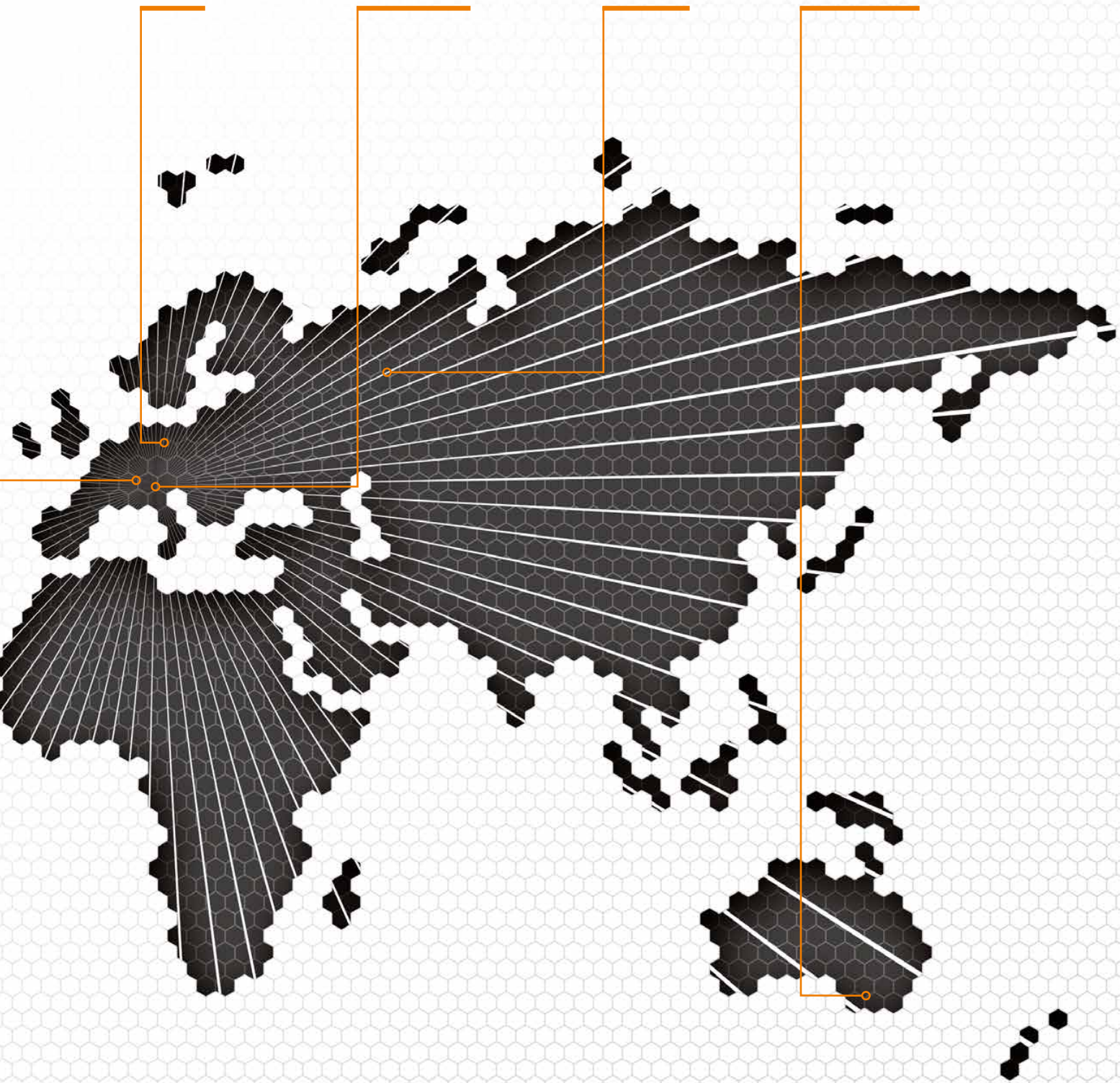
FAE Headquarters and Primetech Division are located in Italy, with cooperation from six branches. With our global dealer network, we can be constantly beside you, offering tailor made solutions to whatever problem you have.

**FAE CENTRAL
EAST EUROPE
BERLIN**

**FAE GROUP ITALY
FONDO-VIPITENO**
**PRIMETECH ITALY
SARNONICO**

**FAE RUSSIA
MOSCOW**

**FAE AUSTRALIA
PACIFIC
MELBOURNE**



IMPOSSIBLE TO
QUANTIFY,
**OUR KNOW-HOW
CONTINUES TO
EVOLVE**

The technical data in this catalogue may be altered without prior notice.
The information and images in this document are not binding.
The weight is approximate and refers to machine without options.
The data in this catalog must be confirmed by the sales department.
Photographs may include accessories and equipment not supplied as standard.
FAE Group S.p.A. reserves the right to make changes at any time, without prior warning.

FAE GROUP WORLDWIDE

FAE GROUP SPA

Zona Produttiva, 18 | 38013 Fondo (TN) - Italy
Ph. +39 0463 840000 | Fax +39 0463 840099
info@fae-group.com | www.fae-group.com

FAE USA INC.

Oakwood Industrial Park | 5321 Rafe Banks Dr. | Flowery Branch, GA 30542 - United States
Ph. +1 770 407 2014 | +1 877-FAEUSA-1 | Fax. +1 770 338 4508
info@faeusa.com | www.faeusa.com

FAE AUSTRALIA PACIFIC PTY LTD

485 Hammond Rd | Dandenong South | 3175 VIC - Australia
Ph. +61 3 9706 4088
info@fae-ap.com.au | www.fae-ap.com.au

FAE CENTRAL EAST EUROPE GmbH

Poststraße 2 | 14542 Werder/OT Glindow - Germany
Ph. +49 (0) 3327 565700 | Fax +49 (0) 33 27 56 57029
info@faecee.com | www.faecee.com

FAE FRANCE SAS

84, rue du Montmurier | 38540 Grenay - France
Ph. +33 04 74 95 9000 | Fax +33 04 74 95 9005
info@fae-france.com | www.fae-france.com

FAE RUSSIA | ООО ФАЕ РУССИА

101 Pogodina Str. | 143302 Naro-Fominsk, Moscow region - Russian Federation
Российская Федерация | 143302, Московская область | г. Наро-Фоминск | ул. Погодина, 101
Ph. +7 495 763 9331 | info@fae-russia.com | www.fae-russia.com

PRIMETECH SHREDDING EQUIPMENT LTD.

110 Saskatchewan Ave | Spruce Grove, AB, T7X 0V5 - Canada
Ph. +1 780-948-8882 | Fax +1 780-948-8886
info@prime-tech.com | www.prime-tech.com

Distributed by



ADVANCED
SHREDDING
TECHNOLOGIES

fae-group.com