



EGG\_Shredding\_20220201\_Version1

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# Content

5	<b>Our philosophy</b>
7	Eggersmann shredding process
9	Single shaft & Dual-shaft shredders
11	FORUS F 25 / F 25 E
19	FORUS F 38 / F 38 E
25	TEUTON Z 50 / Z 50 E
31	TEUTON Z 60
37	Options   Applications
17	Service
18	Telematic

## The Eggersmann Philosophy

As an active contributor to the recycling industry, we support the global fight for the environment and climate protection - with our systems and special machines as well as with many years of experience and well-founded know-how and passion.

We have made it our task to recycle all kinds of waste as high quality as possible.

With our special machines and systems, we separate as many recyclables as possible from the material before it is incinerated or landfilled. Landfill masses are thereby highly reduced, which in turn significantly reduces CO<sub>2</sub> emissions and fewer pollutants and microplastics enter the environment.

In our own biological waste treatment plants, we generate renewable energy from biomass, thereby saving greenhouse gases and fossil fuels. At the same time, we produce quality fertilizers for agriculture. In contrast to soil-damaging mineral fertilizers with high nitrate levels, this natural soil improver supplies the soil with rich humus. We process around 170,000 tons of biomass every year into quality compost / fertilizer and thus contribute, among other things, to sustainable, organic food production.

Portable and stationary recycling machines by Eggersmann are the first choice for efficient and user-friendly turning, screening and shredding with the lowest operating costs and maximum reliability.

All of our machines are characterized by numerous future-oriented features such as Eggersmann **NRT** Noise Reduction Technology, a setup specially tailored to the machine for reducing the noise level.

Other highlights of our machine technology are the Eggersmann Service Features **MMS** Minimum Maintenance System (longest maintenance intervals and minimized maintenance effort for maximum machine uptime) or the remote maintenance tool Eggersmann Telematics System. Among other things, the latest Stage V engines and the Eggersmann **ASC** Auto Standby Control, the automatic standby function of the machine, ensure better sustainability and lowest fuel consumption.

## Eggersmann shredding process

Eggersmann shredders are designed as robust universal shredding tools. In the medium performance range, FORUS dual-shaft shredders are the right choice for the job. They combine compact dimensions with high power. TEUTON single-shaft shredders cover the upper performance range. A rotor length of 3,000 mm effectively prevents bridging in the feeding area, meaning that there is also scope for using larger wheel loaders here.



Individually adjustable shaft speeds

## FORUS dual-shaft shredders

Eggersmann dual-shaft shredders offer a high level of operational safety due to their hydromechanical drive. The shafts can be controlled asynchronously either individually or using configured programs. This optimises the results for most shreddable materials and at the same

time enables self-cleaning for winding materials. The various breaker bar allow the final product size to be clearly defined through to a market end product.

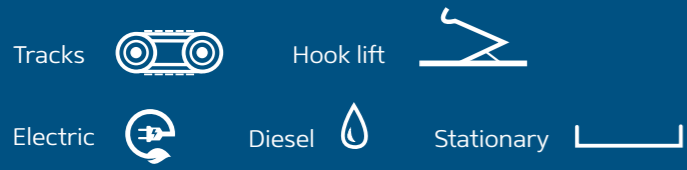


Long-life marathon rotor

## TEUTON single-shaft shredders

Eggersmann's hydro-mechanically driven single-shaft shredders are characterised by a uniform material quality of output. The various screening basket variants allow the final product to be clearly defined to a market end product. The different shredding tools used for the various appli-

cations can be exchanged easily, eliminating the need for regular welding work. Contaminants get discharged automatically by reversing the shredding rotor.



## FORUS F 25 / F 25

Eggersmann's **FORUS** series of dual-shaft shredders are ideal, universal machines for a wide range of recycling applications. **FORUS** can easily shred numerous types of recyclable waste and prepare it for further processing. The focus here is on the shredding of brittle materials such as waste wood and demolition debris, roots or railway ties.

Due to the innovative, asynchronous shaft drive, the **FORUS** is also a strong partner for waste management applications. Even special applications such as

glass processing are no challenge for this great all-rounder.

The final product sizes and production rates of the shredder can be adjusted and optimised from 120 mm to 500 mm within just a few minutes, depending on the application, thanks to the hydraulic, modular breaker bar system.



Application: Waste wood



Application: Glass recycling



Application: Pallets

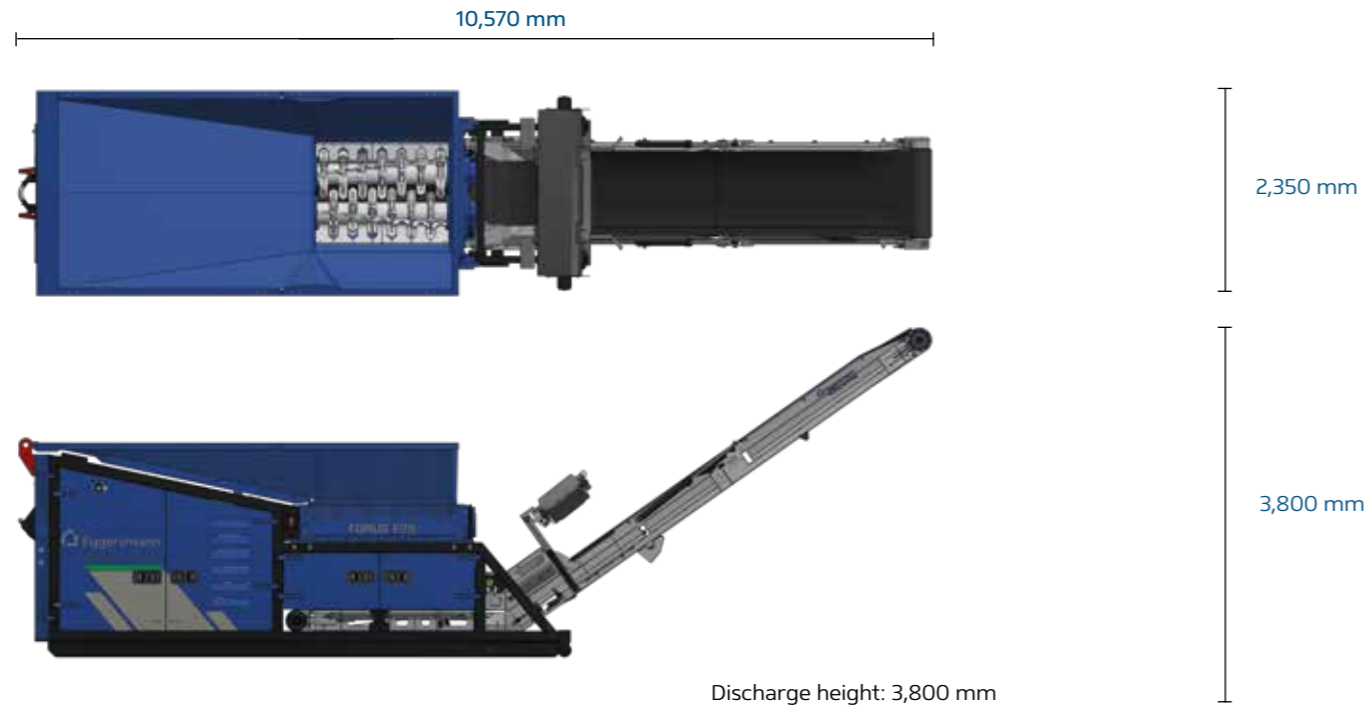


Waste wood up to 30 t/h  
MSW up to 30 t/h

Industrial waste up to 25 t/h  
Green waste up to 25 t/h

# FORUS F 25 / F 25

## Working position



## Transport position



## Technical data | FORUS F 25

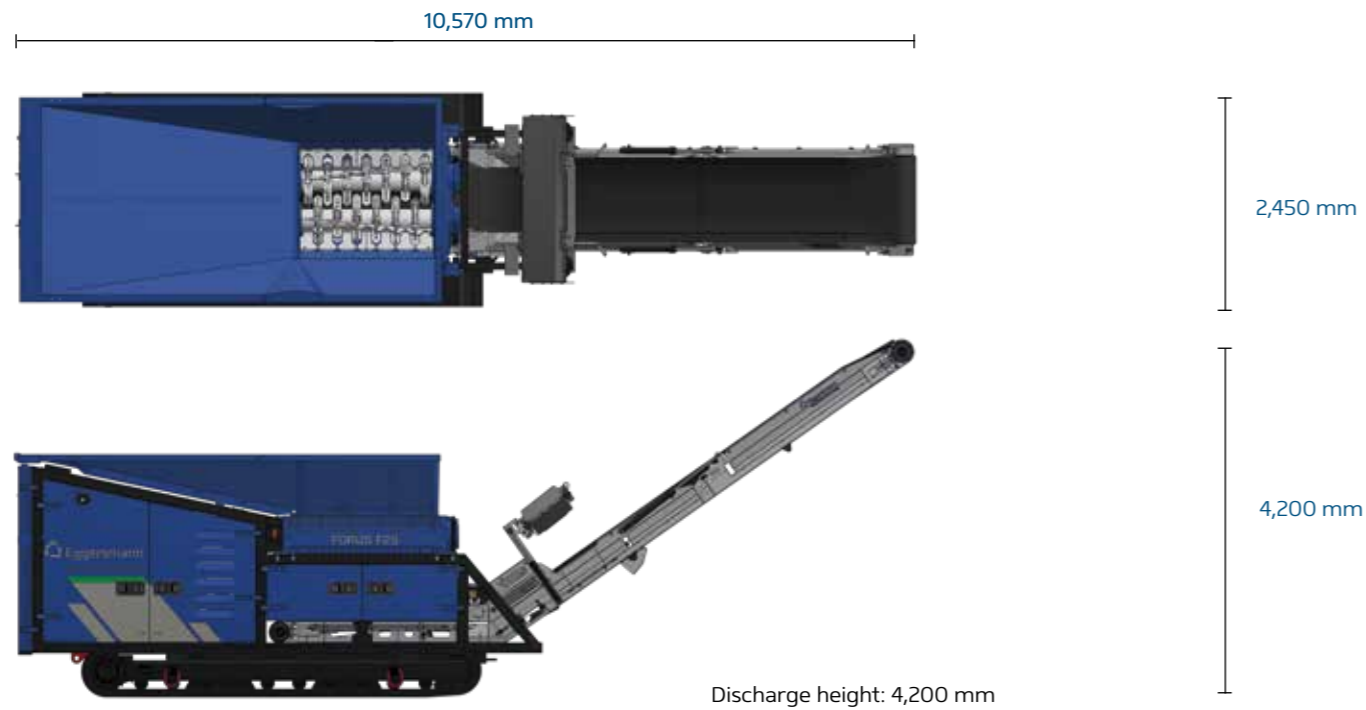
Engine		
Diesel engine		CAT C 7.1
Power	kW / HP	186 / 252
Cubic cc / cylinders		7.1 / 6-cylinder
Emissions standard		EPA Tier 4f / EU Stage V
Tank volume	l	250
Drive components		
Hydraulic pumps/ hydr. motors - Manufacturer		2 x axial piston pumps / 2x axial piston motors - Bosch Rexroth
Planetary gear unit - Manufacturer		2 x gear units Bonfiglioli
Chassis		
Perm. GVW	kg	14,500
Feeding hopper		
Volume	m <sup>3</sup>	5
Hopper		hydraulically tipping
Feeding height	mm	2,500
Shredding system		
Number of shafts		2
Opening above the shafts	mm	1,350 x 1,550
Shaft speed	rpm	28-5, shafts driven individually, asynchronously
Conveyor belt		
Belt width	mm	1,000

## Technical data | FORUS F 25 E

Engine		
Electric		T3C315L-4
Power / frequency	kW / Hz	132 / 50
Drive components		
Hydraulic pumps/ hydr. motors - Manufacturer		2 x axial piston pumps / 2x axial piston motors - Bosch Rexroth
Planetary gear unit - Manufacturer		2 x gear units Bonfiglioli
Chassis		
Perm. GVW	kg	14,500
Feeding hopper		
Volume	m <sup>3</sup>	5
Hopper		hydraulically tipping
Feeding height	mm	2,500
Shredding system		
Number of shafts		2
Opening above the shafts	mm	1,350 x 1,550
Shaft speed	rpm	28-5, shafts driven individually, asynchronously
Conveyor belt		
Belt width	mm	1,000

# FORUS F 25

## Working position








## Transport position



## Technical data | FORUS F 25

<b>Engine</b>		
Diesel engine		CAT C 7.1
Power	kW / HP	186 / 252
Cubic cc / cylinders		7.1 / 6-cylinder
Emissions standard		EPA Tier 4f / EU Stage V
Tank volume	l	250
<b>Drive components</b>		
Hydraulic pumps/ hydr. motors - Manufacturer		2 x axial piston pumps / 2x axial piston motors - Bosch Rexroth
Planetary gear unit - Manufacturer		2 x gear units - Bonfiglioli
<b>Chassis</b>		
Tracked chassis	mm	Track width 400 mm, 3-web floor panels, 2 speeds
Perm. GVW	kg	17,500
<b>Feeding hopper</b>		
Volume	m <sup>3</sup>	5
Hopper		hydraulically tipping
Feeding height	mm	2,850
<b>Shredding system</b>		
Number of shafts		2
Opening above the shafts	mm	1,350 x 1,550
Shaft speed	rpm	28-5, shafts driven individually, asynchronously
<b>Conveyor belt</b>		
Belt width	mm	1,000

Tracks  Hook lift 

Electric  Diesel  Stationary 



## FORUS F 38 / F 38

Highly efficient drive technology combined with maximum mobility guarantees the lowest operating costs. Optionally with the latest diesel technology or electrically powered.

The Eggersmann **FORUS F 38** dual-shaft shredder is the big brother to the **FORUS F 25**. The universal range of applications and the definable final product size are also key aspects of this machine.

Like the **F 25**, the **FORUS F 38** offers a feeding hopper with a capacity of 5 m<sup>3</sup> that can be operated hydraulically at the push of a button, ideal for loading with a wheel loader. The hydraulically height-adjustable overband magnet can be adjusted in height using the remote control and can be adapted perfectly to suit the flow of materials.

The user-friendly and intelligent control design ensures maximum machine uptime with optimum utilisation. The performance and level parameters as well as error messages and maintenance intervals are displayed digitally and deliver a trouble-free and reliable shredding process.

Waste wood up to 45 t/h  
MSW up to 50 t/h

Industrial waste up to 30 t/h  
Green waste up to 35 t/h



Application: Railway ties



Application: MSW

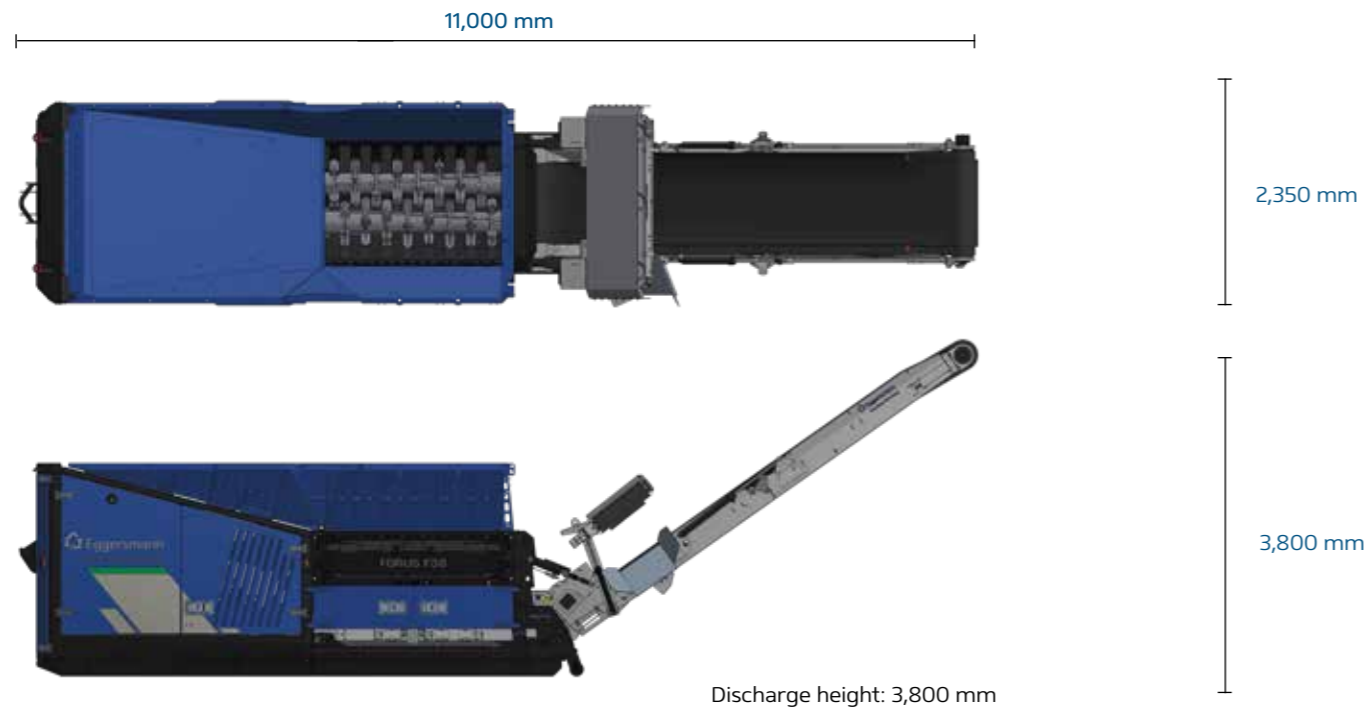


Application: Waste wood



# FORUS F 38 / F 38

## Working position



## Transport position



## Technical data | FORUS F 38

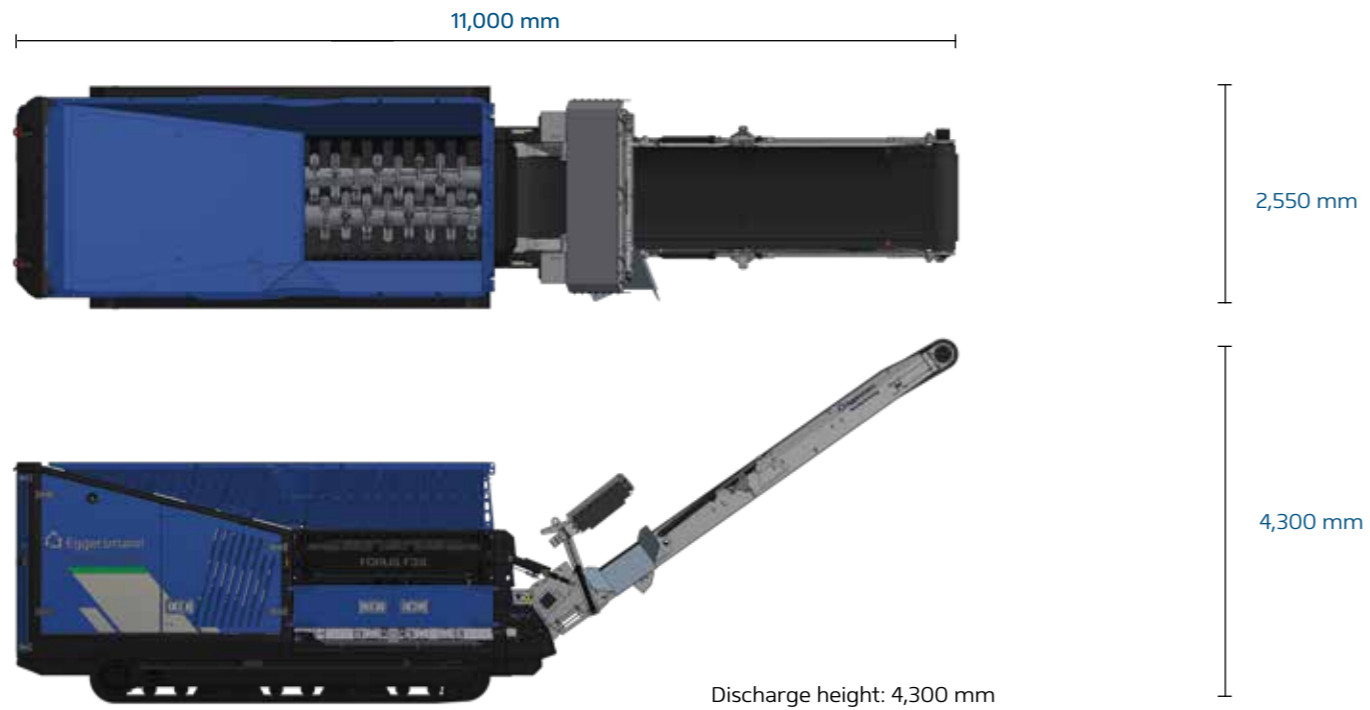
Engine		
Diesel engine		CAT C9.3
Power	kW / HP	280 / 380
Cubic cc / cylinders		9.3 L / 6-cylinder
Emissions standard		EPA Tier 4f / EU Stage V
Tank volume	l	400
Drive components		
Hydraulic pumps/ hydr. motors - Manufacturer		2 x axial piston pumps / 2 x axial piston motors - Bosch Rexroth
Planetary gear unit - Manufacturer		2 x gear units - Bonfiglioli
Chassis		
Perm. GVW	kg	approx. 15,500
Feeding hopper		
Volume	m <sup>3</sup>	5
Hopper		hydraulically tipping
Loading height	mm	2,500
Shredding system		
Number of shafts		2
Opening above the shafts	mm	2,034 x 1,450
Shaft speed	rpm	23-5, shafts driven individually, asynchronously
Conveyor belt (height-adjustable)		
Belt width	mm	1,200
Discharge height (steplessly adjustable)	mm	2,500 - 3,800

## Technical data | FORUS F 38 E

Engine		
Electric		T3C315L-4
Power / frequency	kW / Hz	200 / 50 Hz
Drive components		
Hydraulic pumps/ hydr. motors - Manufacturer		2 x axial piston pumps / 2 x axial piston motors - Bosch Rexroth
Planetary gear unit - Manufacturer		2 x gear units - Bonfiglioli
Chassis		
Perm. GVW	kg	approx. 15,500
Feeding hopper		
Volume	m <sup>3</sup>	5
Hopper		hydraulically tipping
Loading height	mm	2,500
Shredding system		
Number of shafts		2
Opening above the shafts	mm	2,034 x 1,450
Shaft speed	rpm	23-5, shafts driven individually, asynchronously
Conveyor belt (height-adjustable)		
Belt width	mm	1,200
Discharge height (steplessly adjustable)	mm	2,500 - 3,800

# FORUS F 38 / F 38

## Working position



## Transport position



## Technical data | FORUS F 38

<b>Engine</b>		
Diesel engine		CAT C9.3
Power	kW / HP	280 / 380
Cubic cc / cylinders		9.3 L / 6-cylinder
Emissions standard		EPA Tier 4f / EU Stage V
Tank volume	l	400
<b>Drive components</b>		
Hydraulic pumps/ hydr. motors - Manufacturer		2 x axial piston pumps / 2 x axial piston motors - Bosch Rexroth
Planetary gear unit - Manufacturer		2 x gear units - Bonfiglioli
<b>Chassis</b>		
Tracked chassis	mm	Track width 400 mm, 3-web floor panels, 2 speeds
Perm. GVW	kg	approx 18,000
<b>Feeding hopper</b>		
Volume	m <sup>3</sup>	5
Trichter		hydraulically tipping
Loading height	mm	2,500
<b>Shredding system</b>		
Number of shafts		2
Opening above the shafts	mm	2,034 x 1,450
Shaft speed	rpm	23-5, shafts driven individually, asynchronously
<b>Conveyor belt (height-adjustable)</b>		
Belt width	mm	1,200
Discharge height (steplessly adjustable)	mm	2,800 - 4,300

## Technical data | FORUS F 38 E

<b>Engine</b>		
Elektric		T3C315L-4
Power	kW / Hz	200 / 50
<b>Drive components</b>		
Hydraulic pumps/ hydr. motors - Manufacturer		2 x axial piston pumps / 2 x axial piston motors - Bosch Rexroth
Planetary gear unit - Manufacturer		2 x gear units - Bonfiglioli
<b>Chassis</b>		
Chain chassis	mm	Track width 400 mm, 3-web floor panels, 2 speeds
Perm. GVW	kg	approx 18,000
<b>Feeding hopper</b>		
Volume	m <sup>3</sup>	5
Trichter		hydraulically tipping
Loading height	mm	2,500
<b>Shredding system</b>		
Number of shafts		2
Opening above the shafts	mm	2,034 x 1,450
Shaft speed	rpm	23-5, shafts driven individually, asynchronously
<b>Conveyor belt (height-adjustable)</b>		
Belt width	mm	1,200
Discharge height (steplessly adjustable)	mm	2,800 - 4,300

The content, technical data and images are non-binding and can be changed without prior notice by the manufacturer. With reference to protection notice ISO 16016.



## TEUTON Z 50

The wide range of applications with the new generation of Eggersmann **TEUTON** universal shredders is impressive and virtually inexhaustible. The **TEUTON** series of machines is just as efficient at shredding waste wood, roots, green waste or bulky waste as they are at shredding tires, plastics, mattresses or batches of special and mono-material. Like the other **TEUTON** shredders, the **TEUTON Z 50** also has replaceable shredding tools. Where necessary, depending on the type of application, these can be selected and easily changed quite quickly.

The optional screening basket system makes it possible to shred material down to a marketable product size in a single pass. Another important feature of the machine is the large and wide conveyor belts, which enable material discharge, free from jamming, with all applications. The material discharge-height is up to 5 metres. The conveyor belt speed is steplessly adjustable.



Application: Green waste



Application: Waste wood



Application: MSW

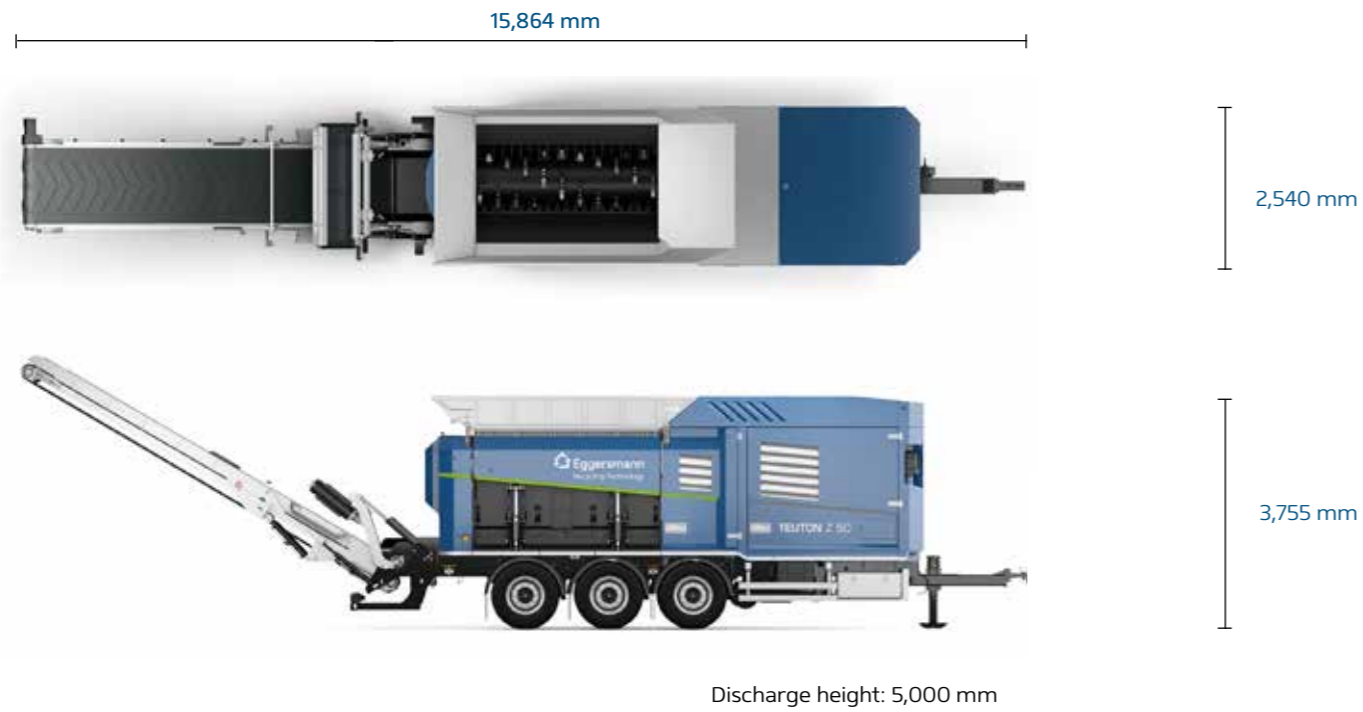


Waste wood up to 50 t/h  
 MSW up to 85 t/h

Industrial waste up to 60 t/h  
 Green waste up to 95 t/h

# TEUTON Z 50

## Working position



## Transport position

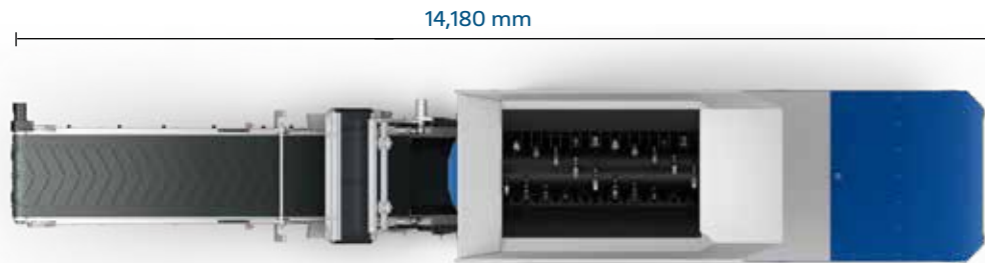


## Technical data | TEUTON Z 50

Engine		
Diesel engine		Cummins X12
Power	kW / HP	373 / 507
Cubic cc / cylinders		12 L / in-line six-cylinder
Exhaust emission standard		EPA Tier 4f / EU Stage V, Optional II
Tank volume	l	650
Chassis		
		3-axle central axle chassis in accordance with StVZO, equipped with ABS/ESP
Tires		385/65 R22,5
Total weight	kg	25,000
Lighting	V	24
Feeding hopper		
Volume	m <sup>3</sup>	7.5
Feeding height	mm	3,000
Feeding width	mm	3,000 - 4,000
Shredding system		
Number of tools on rotor	pcs	30
Number of teeth on counter blade	pcs	19
Rotor length	mm	3,000
Rotor diameter	mm	600, max. flight circle diameter 1,050
Rotor speed	rpm	20 - 40, reversible
Rear conveyor belt		
Length	mm	6,570
Width	mm	1,200
Discharge height (steplessly adjustable)	mm	2,000 - 5,000

# TEUTON Z 50

## Working position



2,540 mm



3,500 mm

Discharge height: 5,000 mm

## Transport position



2,540 mm



3,652 mm

## Technical data | TEUTON Z 50



Engine		
Diesel engine		Cummins X12
Power	kW / HP	373 / 507
Cubic cc / Cylinders		12 L / in-line six-cylinder
Emissions standard		EPA Tier 4f / EU Stage V, Optional II
Tank volume	l	650
Tracked chassis		
Tracked chassis	mm	Track width 400 mm, 3-web floor panels, 2 speeds
Total weight	kg	27,500
Lighting	V	24
Feeding hopper		
Volume	m <sup>3</sup>	7,5
Feeding height	mm	3,000
Feeding width	mm	3,000 - 4,000
Shredding system		
Number of tools rotor	pcs	30
Number of teeth of counter blade	pcs	19
Rotor length	mm	3,000
Rotor diameter	mm	600, max. flight circle diameter 1,050
Rotor speed	rpm	20 - 40, reversible
Rear conveyor belt		
Length	mm	6,570
Width	mm	1,200
Discharge height (steplessly adjustable)	mm	2,000 - 5,000



## Technical data | TEUTON Z 50 E

Engine		
Elektric		T3C315L-4
Power	kW / Hz	200 / 50
Tracked chassis		
Tracked chassis	mm	Track width 400 mm, 3-web floor panels, 2 speeds
Total weight	kg	27,000
Lighting	V	24
Feeding hopper		
Volume	m <sup>3</sup>	7,5
Feeding height	mm	3,000
Feeding width	mm	3,00 - 4,700
Shredding system		
Number of tools rotor	pcs	30
Number of teeth of counter blade	pcs	19
Rotor length	mm	3,000
Rotor diameter	mm	600, max. flight circle diameter 1,050
Rotor speed	rpm	20 - 40, reversible
Rear conveyor belt		
Length	mm	6,570
Width	mm	1,200
Discharge height (steplessly adjustable)	mm	2,000 - 5,000

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Trailer  Tracks 

Diesel  Stationary 

## TEUTON Z 60

There are 30 interchangeable shredding tools on the three-metre long shredding rotor. The counter-blade has 19 teeth. The design is simple and robust and allows the distances between the shredding tools of the shredding rotor and the counter blade to be varied quickly and flexibly. This means that, depending on requirements, the final product size can be adjusted with more than ten different setting options.

After passing the counter blade, the material falls onto the discharge belt. In addition, a screening basket can be provided. The optional screening basket system enables the machines of the **TEUTON** series to produce a specified product size in a single pass if required. After shredding, the material first falls onto this screen basket, which encloses the lower half of the shredding rotor. Only material smaller than or equal to the specified product size passes the screening basket.

Waste wood up to 55 t/h  
MSW up to 95 t/h

Industrial waste up to 65 t/h  
Green waste up to 95 t/h



Application: Waste wood



Application: Roots



Application: MSW

# TEUTON Z 60

## Working position



## Transport position



## Technical data | TEUTON Z 60

<b>Engine</b>		
Diesel engine		Cummins QSX 15
Power	kW / HP	447 / 600
Cubic cc / Cylinders		15 L / in-line six-cylinder
Emissions standard		EPA Tier 4f / EU Stage V, Optional II
Tank volume	l	650
<b>Tracked chassis</b>		
Tracked chassis	mm	Panel width 400 mm, 3-web floor panels, 2 speeds
Total weight	kg	34,000
Lighting	V	24
<b>Feeding hopper</b>		
Volume	m <sup>3</sup>	7.5
Feeding width	mm	3,000 - 4,000
Feeding height to upper edge of hopper	mm	3,400
Feeding height to top edge of hopper elevation	mm	3,800
<b>Shredding system</b>		
Number of tools on rotor	pcs	30
Number of teeth of the counter blade	pcs	19
Rotor length	mm	3,000
Rotor diameter	mm	600, max. flight circle diameter 1.050
Rotor speed	rpm	20 - 40, reversible
<b>Discharge conveyor belt</b>		
Length	mm	7,560
Width	mm	1,200
Max. discharge height	mm	4,000 - 5,000

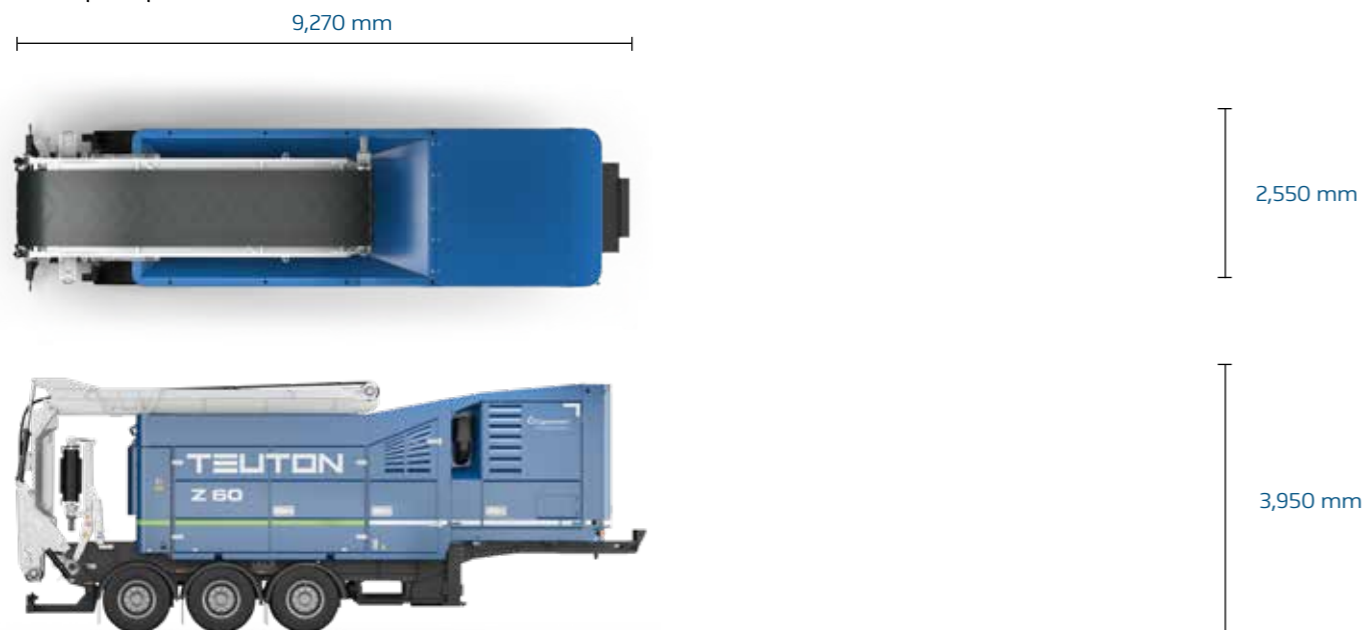
# TEUTON Z 60

## Working position



Discharge height: 5,000 mm

## Transport position



## Technical data | TEUTON Z 60

Engine		
Diesel engine		Cummins QSX 15
Power	kW / HP	447 / 600
Cubic cc / Cylinders		15 L / in-line six-cylinder
Emissions standard		EPA Tier 4f / EU Stage V, Optional II
Tank volume	l	650
Chassis		
Total weight	kg	32,000
Feeding hopper		
Volume	l	4,400
Feeding height	mm	3,000
Feeding width	mm	3,000 - 4,000
Feeding height to upper edge of hopper	mm	3,200
Feeding height to top edge of hopper elevation	mm	3,600
Shredding system		
Number of tools on rotor	pcs	30
Number of teeth of the counter blade	pcs	19
Rotor length	mm	3,000
Rotor diameter	mm	600, max. flight circle diameter 1.050
Rotor speed	rpm	20 - 40, reversible
Discharge conveyor belt		
Length	mm	7,560
Width	mm	1,200
Max. discharge height	mm	4,000 - 5,000





TEUTON

Z 50

Eggermann

## Options



On tracks or hook-lift chassis



Individually adjustable shaft speeds



Hydraulically height-adjustable neodymium magnetic separator



TEUTON: Screening basket system - to create a finished final grain size



FORUS: tool-free exchangeable secondary crushing bars for variable final grain size



Water spraying system for dust control



Robust tracked drives, 2 speeds, ground protection plates



Powerful neodymium magnetic separator, hydraulically height-adjustable, metal discharge to both sides



Hopper automation (FORUS) - for automatic optimisation of loading



30-channel wireless system with integrated emergency stop function



Ball mounting adapter - for uncomplicated manoeuvring of the entire machine



Comb door - can be opened hydraulically = free access to shredding area

## Applications

For more than 30 years, product lines by Eggersmann have been used worldwide in various applications. In the process, we shred, screen, mix, separate and compost a wide variety of materials. The following is a small overview of the variety of applications by Eggersmann Recycling Technology.

We are happy to advise you if you want to dedicate yourself to a new application, optimise existing processes or go completely new ways. As we gain experience worldwide, there are almost no requirements that we have not already solved in this or a similar way.





## Service & Spare Parts

Reliable · Fast · Worldwide

To ensure the long operating life and uptime of your Eggersmann machines, we are always on call as your expert service partner to support you. Our service advisers, technicians, mechanics, mechatronic engineers and programmers are at your service worldwide. So take advantage, today, of the experience of our service personnel and the expert support of our regional dealers.

### Eggersmann service in detail:

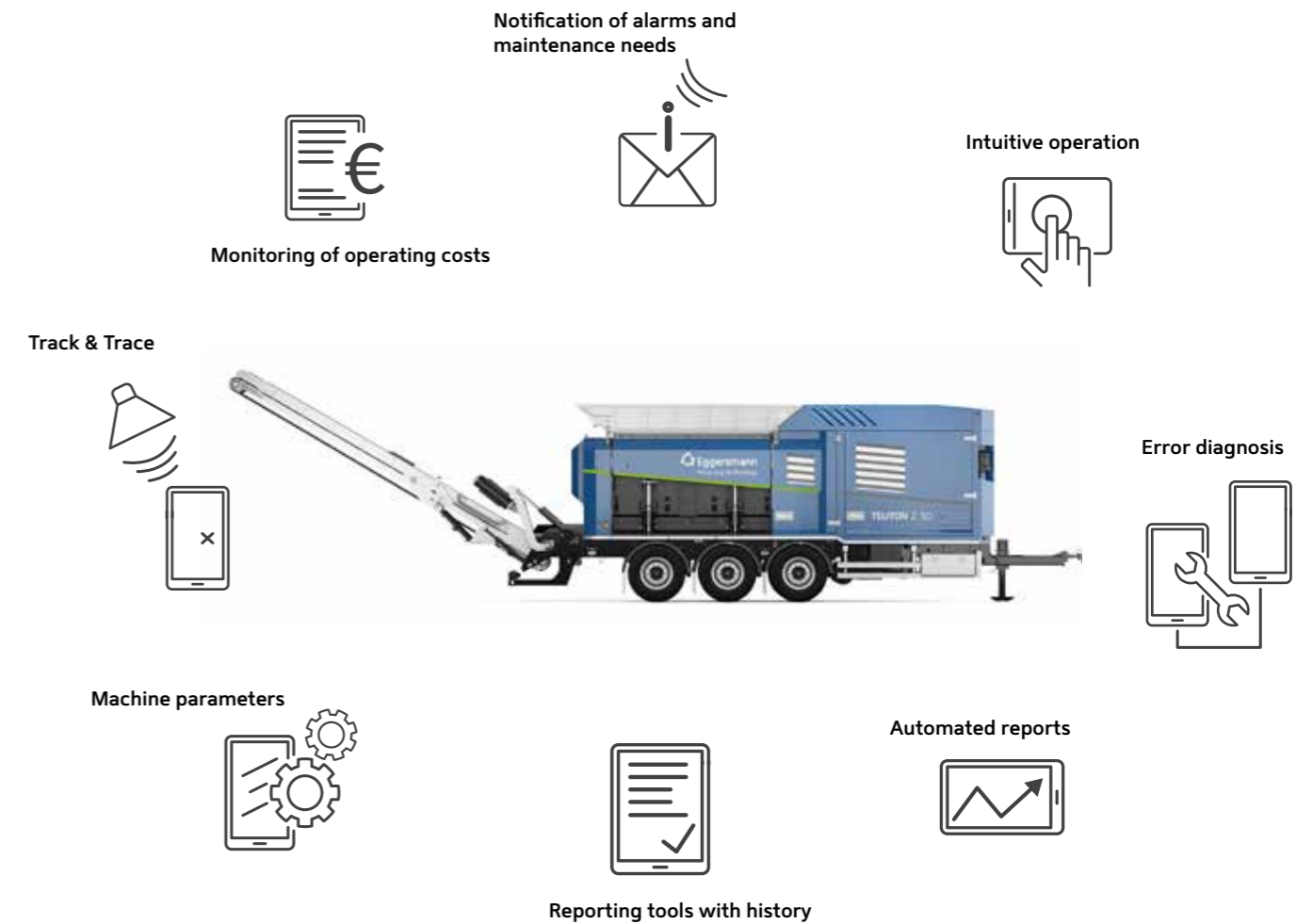
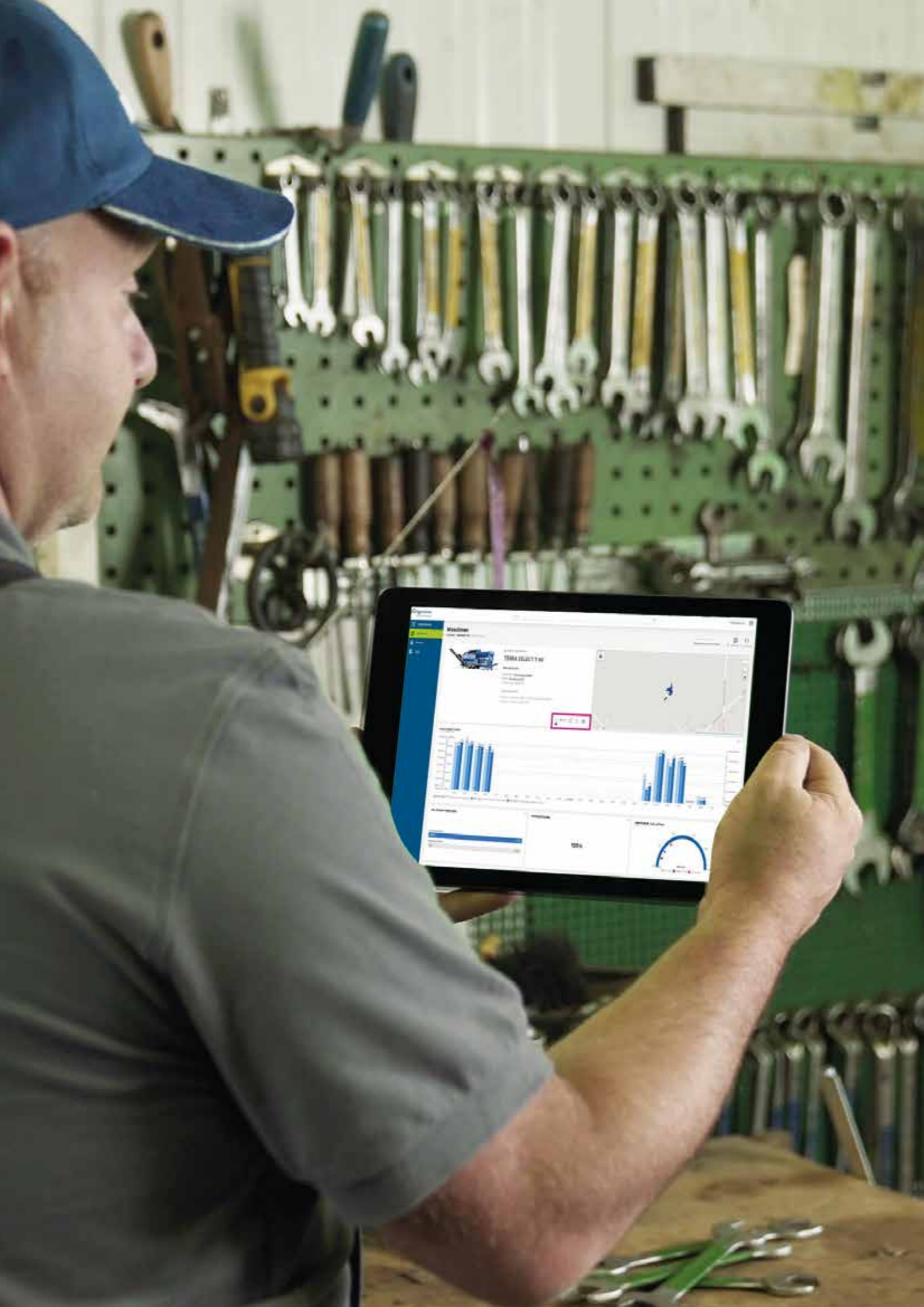
- › Commissioning, assembly & machine instruction
- › Preventive maintenance operations
- › Servicing
- › Troubleshooting
- › Modernisation and upgrading of machines
- › Professional advice

When your Eggersmann machine is inspected by our trained service staff, the complete basic set-up is checked for wear and tear, functionality and safety; essentially, the current condition of the machine is assessed. From this, you will receive a service checklist and a service report.

Find your local service partner on  
[www.f-e.de](http://www.f-e.de)

### Advantages of regular Eggersmann service checks:

- › Extended operating life and uptime of the machine
- › Early warning system for wear: Early-stage, plannable troubleshooting leads to less machine downtime
- › Cost reduction through low repair costs
- › Comprehensive consultancy support



## Eggersmann Telematic

### Remote Service and Machine Monitoring

A useful addition to the cost control and operational monitoring of your machines is the Eggersmann Telematic System.

It significantly simplifies maintenance and service operations. The machine sends the service partner the pending maintenance requirement or informs him directly in the event of a malfunction. The service partner has access to the relevant parameters and can make optimum preparations for the operation in both cases. Eggersmann will pay the costs for the first year of Eggersmann Telematic for you.

#### Telematic documents your success

Thanks to Eggersmann Telematic, work data, resource consumption and the location of your machine can be called

up and evaluated continuously via the Internet and PC, laptop or smartphone live or subsequently in the Eggersmann Telematic Portal.

The Eggersmann Telematic Tool is included as standard equipment in all of our machines..

