



EGG\_Seperating\_2022/09/15\_Version2

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# The Eggersmann Philosophy

As an active practitioner actor in environment and climate protection – with our recycling plants, our special machinery as well as with our many years of experience, in-depth expertise and passion.

We have made it our task to recycle waste materials of all kinds to the highest possible standard.

With our special machines and systems, we can segregate out a high proportion of valuable materials from waste before it goes for incineration or landfill. This significantly cuts down on CO2 emissions and greatly reduces landfill volumes. As a result fewer pollutants and microplastics are released into the environment.

In our biological waste treatment plants, we generate renewable power from biomass which reduces the incidence of greenhouse gases and the use of fossil fuels. At the same time, we manufacture quality fertiliser for agriculture. In contrast to the mineral fertilisers with high nitrate content that damage the soil, this natural soil improver enriches the ground with copious amounts of humus. Every year, we process about 170,000 tons of biomass into quality compost / fertiliser and this contributes towards sustainable biological food production.

Whether mobile or stationary, Eggersmann recycling machines are the first choice for efficient and user-friendly turning, separating and shredding with the lowest operating costs and highest 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. The new electric generation of mobile TERRA SELECT trommel screens and STAR SELECT star screens come as hybrid version or plug-in version with high-performance drives and offers the highest degree of sustainability.





## Separating

The mobile trommel screens from Eggersmann provide maximum performance at a fair price. With a drum length of between 4.2 and 7.5 metres, and with a material-dependent screening capacity of up to 250 m<sup>3</sup>/h, we offer solutions for every application. With trommel diameters of up to 2.2 metres, the effective screening area is up to 10% larger than with comparable machines. This delivers a better quality screening result and more material flow with the same screen length.

With the mobile **STAR SELECT S 60 E** star screen, three fractions can be screened simultaneously, enabling maximum rates of throughput to be achieved (up to 300 m<sup>3</sup>/h depending on the material). Low downtimes and cutting sharpness are further features of the machine.

Eggersmann machines are available as diesel, hybrid or fully electric variants. Many machines are also available in semi-trailer and tracked drive versions.



# Trommel screens

Eggersmann **TERRA SELECT** trommel screens offer the right solution for every size of space and for every application. Compared to star screens, they are less sensitive to wet materials and offer the greatest flexibility. The trommels are easy to exchange in the **TERRA SELECT** machines making them easy to adapt to the desired application.

Here, Eggersmann offers a wide range of hole sizes. In fine screening, screening drums with wire segments that are easy to replace are used, solid drums with round holes are used in heavy waste applications and universal drums

with offset square holes are used for other applications. A conveyor spiral specially tailored to the respective machine ensures continuous screening performance, even under the most difficult conditions. The longest service life of the screening drums is guaranteed by the use of the highest quality steel and thick-walled surfaces. With the extensive Eggersmann screening drum portfolio, screening sizes from 8 - 80 mm are covered.



Extra-long fine grain belt



One-piece fine grain belt



Fast trommel change



Extended fine grain belt

Brush scraper

# Star screens

The Eggersmann star screen machines of the STAR SELECT series are characterized by the highest production rates in compost screening. The production rates for wood chips, bark and waste wood are also significantly higher than with trommel screens. The STAR SELECT star screen machine also provides three screening fractions.

With the right setting, star screens can achieve an enormous throughput. In addition, the result of each fraction can be controlled individually by regulating the speed of each of the screen decks. Unwanted light materials can be placed in

such a way that optimum extraction can be performed by the optional AIRFIX windsifting system at the material discharge belt's, greatly improving the screening outcome. The **STAR SELECT S 60 E** from Eggersmann is available as a hybrid or a fully electronic system, both options involving low maintenance with good environmental credentials.



Eggersmann fine screening shaft with QuickChange system



Duramax cleaning element



Radio remote control



Electric  Wheeled 

## Eggersmann TERRA SELECT T 40 E

The **TERRA SELECT T 40 E** is a fully electric drum screen variant.

The machine is designed for materials such as biomass, compost, soil or waste wood, waste and a great deal more. The machine has a screen area of 19 m<sup>2</sup> and achieves a throughput of up to 100 m<sup>3</sup> per hour depending on the type of material.

Due to its compact dimensions, with a trommel diameter of just 1,600 mm and a length of 4,200 mm, the **TERRA SELECT T 40 E** can be transported quickly and easily. The machine is approved for use on public roads and can also be transported behind small commercial vehicles or agricultural tractors with the optional 40 mm drawbar. On site, the machine can be moved easily using a forklift truck or tractor, ensuring it is set up for use in just 5 minutes.

Once the **TERRA SELECT T 40 E** is ready for operation, it can be supplied with power using the plug & play mains connection. This makes the **T 40 E** a highly efficient and economic solution for material processing.



Plug-and-play



Compact dimensions



Leakage-free conveyor technology with the highest quality of conveyor belts

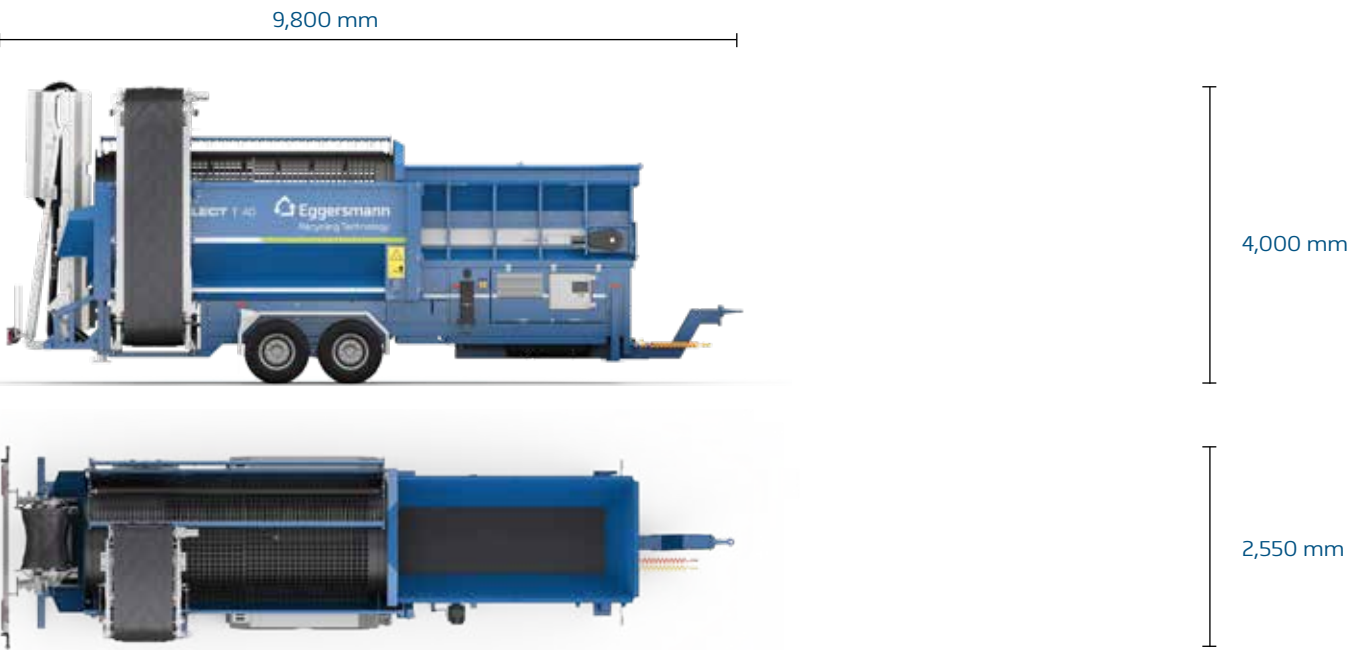


# Eggersmann TERRA SELECT T 40 E

Working position



Transport position



## TECHNICAL DATA | TERRA SELECT T 40 E

Chassis		
Axles		2-axle central trailer compliant with StVZO [German road safety legislation] with ABS
Tyres		285/70 R19.5
Gross weight	kg	13,500
Lighting	V	24
Drawbar	D (mm)	50
Bunker dimensions		
Volume	m³	> 3.4
Filling side		both sides
Filling height	mm	2,650
Bunker width	mm	3,150
Bunker depth	mm	1,550
Bunker belt width	mm	1,000
Trommel		
Length	mm	4,200
Diameter	mm	1,600
Surface	m²	21
Net surface area	m²	19
Speed	rpm	max. 21
Cleaning brushes		
Diameter	mm	500
Adjustability		mechanical
Position		in direction of travel, left
Discharge belts		
Fine grain belt length	mm	6,700
Fine grain belt width	mm	800
Fine grain belt discharge height	mm	3,000
Inclined angle of fine grain belt	°	30
Oversize belt length	mm	4,900
Oversize belt width	mm	800
Oversize belt discharge height	mm	3,300
Inclined angle of oversize belt	°	30
Options: Belts (Operating position)		
Length	mm	11,870
Width	mm	4,980
Fine grain belt length	mm	3,400
Discharge height of fine grain belt	mm	1,970
Oversize belt	mm	3,400
Discharge height of oversize belt	mm	2,530

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Diesel-hydraulic
Electric

Hybrid
Wheeled

# Eggersmann TERRA SELECT T 50

The **TERRA SELECT T 50** trommel screen is used with virtually all materials, such as compost, soils, refuse, wood or metal.

The **T 50** has a drum diameter of 2,000 mm and the screening power is fully 20% higher than conventional trommels in the 5 metre class. This gives an output of up to 150 m³ per hour. With a capacity of more than 6 m³, the filling bunker assures easy loading using a wheeled loader or from a continuous screening process.

A specific and unique feature in this performance class of the **T 50** is the optional, extra-long fine grain belt. With a length of 8,060 mm, it is possible to increase the bulk cone formation by up to 80% compared to conventional fine particle belt lengths.



Trommel changes are easy for trommel diameters of up to 2,000 mm



Extended coarse grain belt, discharge height of up to 3,800 mm



Extended fine grain belt, discharge height of up to 3,700 mm



# Eggersmann TERRA SELECT T 50

## Working position



## Transport position



## TECHNICAL DATA | TERRA SELECT T 50

Engine		
Diesel engine		CAT C 3.6 24V
Power	kW	55
Displacement / Cylinder		3.6 / 4-cylinder
Exhaust emission standard		EPA Tier 4f / EU Level V
Tank volume	l	300
Temperature dimensions	°C	-10 / +37
Chassis		
Axles		2-axle central trailer compliant with StVZO [German road safety legislation] with ABS
Tyres		385/65 R22.5
Gross weight	kg	16,000
Lighting	V	24
Drawbar	D (mm)	50
Bunker dimensions		
Fill quantity	m³	> 6
Filling side		both sides
Filling height	mm	2,850
Bunker width	mm	4,000
Bunker depth	mm	1,800
Bunker belt width	mm	1,200
Trommel		
Length	mm	4,500
Diameter	mm	2,000
Surface	m²	28
Net surface area	m²	25
Speed	rpm	max. 21
Cleaning brushes		
Diameter	mm	700
Adjustability		hydraulic
Position		in direction of travel, left
Discharge belts		
Fine grain belt length	mm	6,700
Fine grain belt width	mm	1,000
Fine grain belt discharge height	mm	3,100
Inclined angle of fine grain belt	°	30
Oversize belt length	mm	4,900
Oversize belt width	mm	1,000
Oversize belt discharge height	mm	3,300
Inclined angle of oversize belt	°	30
Options: Belts (Operating postion)		
Length	mm	15,156
Width	mm	6,981
Fine grain belt length	mm	8,060
Discharge height of fine grain belt	mm	3,700
Oversize belt	mm	5,900
Discharge height of oversize belt	mm	3,800





# Eggersmann TERRA SELECT T 60

With a trommel length of 5,500 mm and a trommel diameter of 2,200 mm, the trommel screen T 60 achieves the highest production rates in combination with the best screening quality in compact dimensions.

Thanks to its well designed and robust construction, the T 60 impresses with top-class features, such as the largest screening drum and longest conveyor belts in combination with maximum mobility. In addition, the high level of standard equipment can be extended by a wide range of specific customer add-ons.

The optional extra-long fine grain belt – a unique distinguishing feature – is sure to improve your working procedures. Compared to conventional fine grain belt lengths, the fine grain belt, With a length of 8,060 mm, increases the bulk cone formation significantly.



2,200 mm trommel diameter



TERRA SELECT T 60 tracked



TERRA SELECT T 60 Semi-trailer

# Eggersmann AIRFIX V 60

Screening and wind sifting in a Single Step: Efficient cleaning of coarse particles during the screening process.

In order to minimise the amount of impurities (light plastics such as plastic bags or film) in the compost as far as possible, the mobile **AIRFIX V 60** windsifter is mounted at the end of the coarse grain belt of the screening machine. The material is blown from below to enable the impurities to be extracted more easily. Extraction is achieved with a suction pressure blower, with an operational power rating of 20.5 kW. The blower is mounted on top of a container, which is filled with the extracted lightweight plastic.

The **AIRFIX V 60** mobile wind sifter can be driven either hydraulically or electrically.



AIRFIX V 60



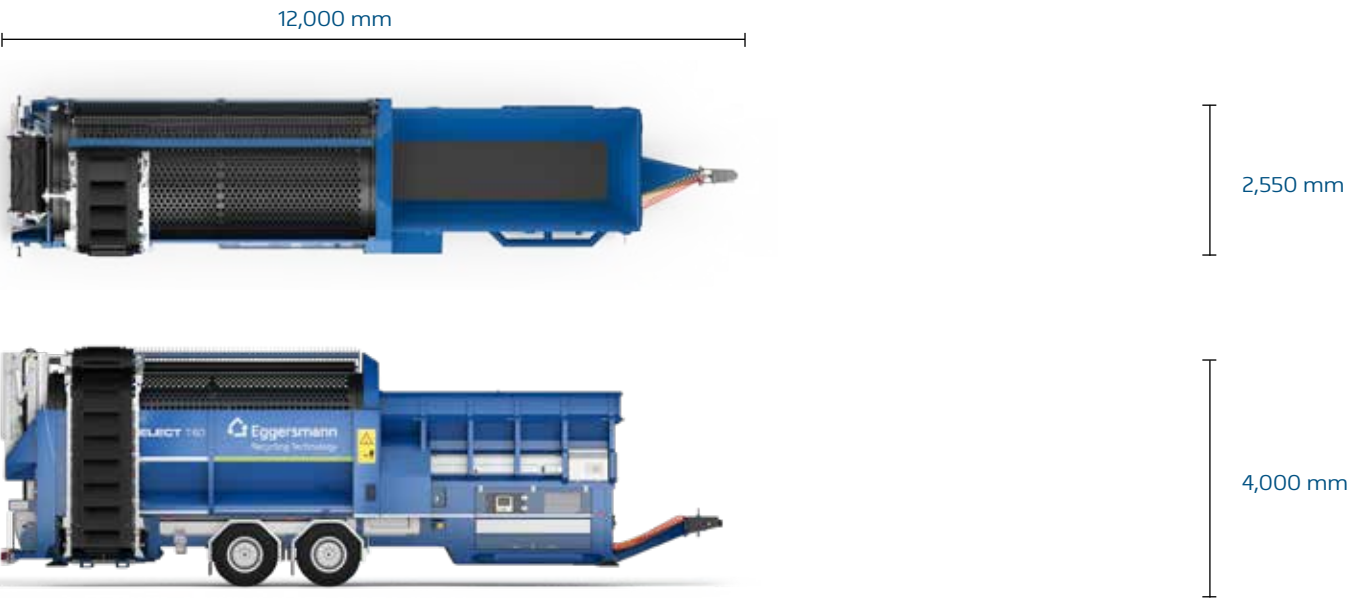


# Eggersmann TERRA SELECT T 60

Working position



Transport position



## TECHNICAL DATA | TERRA SELECT T 60

Engine		
Diesel engine		CAT C 3.6 24V
Power	kW	75
Displacement / Cylinder		3.6 / 4-cylinder
Exhaust emission standard		EPA Tier 4f / EU Level V
Tank volume	l	300
Fuel filler cap		Right in direction of travel
Temperature dimensions	°C	-10 / +37
Chassis		
Axles		2-axle central trailer compliant with StVZO [German road safety legislation] with ABS
Tyres		385/65 R22.5
Gross weight	kg	19,000
Lighting	V	24
Drawbar	D (mm)	50
Bunker dimensions		
Fill quantity	m³	> 6
Filling side		both sides
Filling height	mm	2,870
Bunker width	mm	4,000
Bunker depth	mm	1,800
Bunker belt width	mm	1,200
Trommel		
Length	mm	5,500
Diameter	mm	2,200
Surface	m²	38
Net surface area	m²	33
Speed	rpm	max. 21
Cleaning brushes		
Diameter	mm	700
Adjustability		hydraulic
Position		in direction of travel, left
Discharge belts		
Fine grain belt length	mm	6,700
Fine grain belt width	mm	1,000
Fine grain belt discharge height	mm	3,100
Inclined angle of fine grain belt	°	30
Oversize belt length	mm	4,900
Oversize belt width	mm	1,200
Oversize belt discharge height	mm	3,300
Inclined angle of oversize belt	°	30
Options: Belts (Operating position)		
Length	mm	15,921
Width	mm	7,255
Fine grain belt length	mm	8,060
Discharge height of fine grain belt	mm	3,700
Oversize belt	mm	5,900
Discharge height of oversize belt	mm	3,800

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# Eggersmann TERRA SELECT T 70

The Eggersmann **TERRA SELECT T 70** trommel screen is the largest machine in the series, making it the high-performance machine that impresses with impressive screening results. A powerful drive train powers the largest screening trommel (7.5 x 2.2 m) on the market. With a net 46 m<sup>2</sup> screening area, screening rates of up to 250 m<sup>3</sup> per hour can be achieved.

This unique large trommel enables a high retention time of the material to achieve the highest quality outcome. The numerous options for customer-specific applications as well as the robust and durable machine design of the **TERRA SELECT T 70** offers the user optimum conditions for intensive and high-throughput continuous operation. A mobile wheeled variant is available as a semi-trailer or a tracked machine.



Trommel 7.5 m<sup>3</sup> x 2.2 m



7 m<sup>3</sup> bunker



TERRA SELECT T 70 Semi-trailer





# Eggersmann TERRA SELECT T 70

Working position



Transport position



## TECHNICAL DATA | TERRA SELECT T 70

Engine		
Diesel engine		CAT C 3.6 24V
Power	kW	75
Displacement / Cylinder		3.6 / 4-cylinder
Exhaust emission standard		EPA Tier 4f / EU Level V
Tank volume	l	300
Fuel filler cap		Right in direction of travel
Temperature dimensions	°C	-10 / +37
Chassis		
Axles		2-axle central trailer compliant with StVZO [German road safety legislation] with ABS
Tyres		385/80 R22.5
Gross weight	kg	22,000
Lighting	V	24
unker dimensions		
Fill quantity	m³	> 7
Filling side		both sides
Filling height	mm	2,840
Bunker width	mm	4,200
Bunker depth	mm	1,840
Bunker belt width	mm	1,200
Trommel		
Length	mm	7,500
Diameter	mm	2,200
Surface	m²	52
Net surface area	m²	46
Speed	rpm	max. 21
Cleaning brushes		
Diameter	mm	700
Adjustability		hydraulic
Position		in direction of travel, left
Discharge belts		
Fine grain belt length	mm	6,700
Fine grain belt width	mm	1,000
Fine grain belt discharge height	mm	3,100
Inclined angle of fine grain belt	°	30
Oversize belt length	mm	4,900
Oversize belt width	mm	1,000
Oversize belt discharge height	mm	3,300
Inclined angle of oversize belt	°	30
Options: Belts (Operating position)		
Length	mm	17,700
Width	mm	7,370
Fine grain belt length	mm	8,060
Discharge height of fine grain belt	mm	3,700
Oversize belt	mm	5,900
Discharge height of oversize belt	mm	3,800

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## Eggersmann STAR SELECT S 60 E

Highest throughputs when screening as many fractions as possible, low downtimes and high separation efficiency as well as an economical mode of operation and flexible application options are the distinguishing features of the Eggersmann star screen. The **STAR SELECT S 60 E** star screen satisfies all expectations for efficient, innovative screening technology and it also provides many other advantages. For one, this mobile screening machine can be used to screen both biomass and compost as well as bark, waste wood and wood chips. It thereby achieves a throughput of up to 300 m³/h with three fractions.

The newly developed Eggersmann star screens with Duramax cleaning element enables the stars to clean themselves automatically, causing less wear. This means that wet and sticky material is screened easily.

With the Eggersmann QuickChange system, the screening shaft can be replaced within a very short time and this reduces downtimes.

To prepare contaminated central fractions for ejection of the following foreign bodies, the individual screening shafts operate using the new Eggersmann SplitSpeed process for which a patent is pending. This involves the screening shaft speeds being set variably and independently to position undesirable lightweight materials in the optimum location on the material blanket during the screening process which enables them to be drawn off reliably using the **AIRFIX** wind sifter.

Then this central fraction with a reduced pollutant content is sent back to the composting process. Depending on the combination of stars and settings, screening sections of 0/10 - 25 mm, 10/25 - 120 & >120 mm can be achieved.

Wheeled  Electric  Hybrid 



7" One-Logic Display



Radio remote control

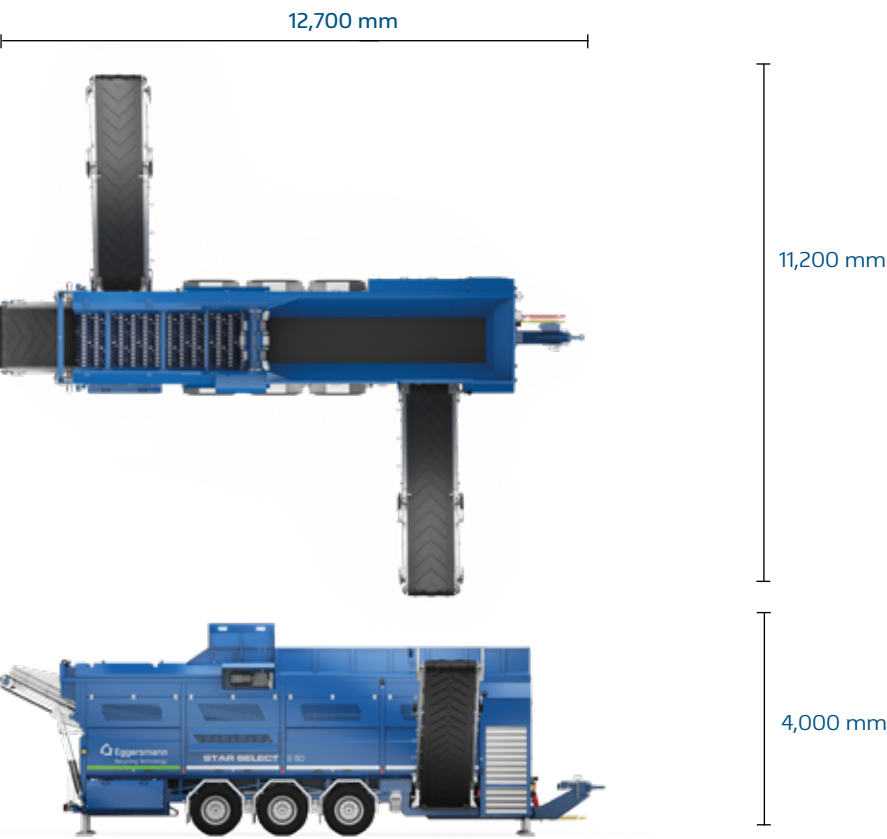


Duramax cleaning element

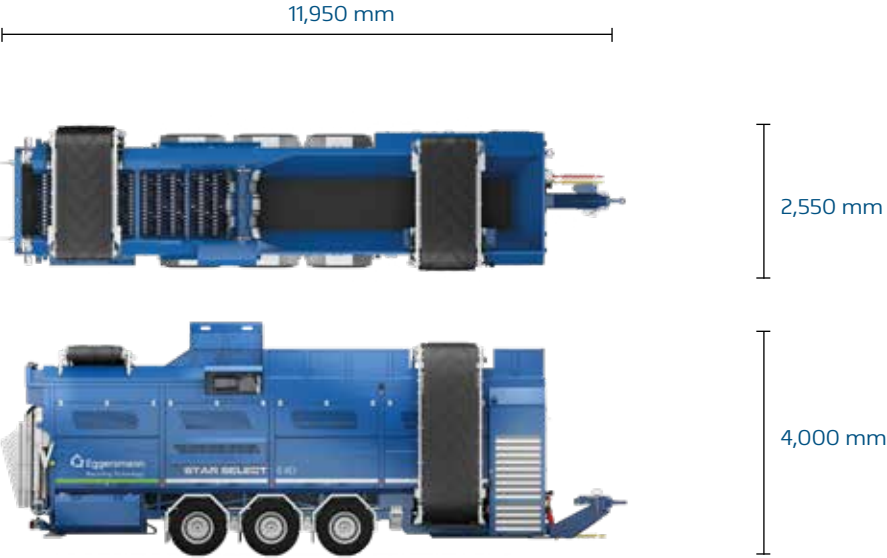


# Eggersmann STAR SELECT S 60 E

Working position



Transport position



## TECHNICAL DATA | STAR SELECT S 60 E

Engine		
Diesel engine		Perkins 904J-E36ETA
Displacement / cylinder	l	3.6 / 4-cylinder
Emissions standard		EU Level V / EPA Tier 4f
Tank volume	l	300
Operating voltage		400V
Alternator power	kVA	80
Temperature range	°C	-10 / +37
Chassis		
Axles		3-axle central trailer compliant with StVZO [German road safety legislation] with ABS
Tyres		385/65/R22.5
Perm. GVW	kg	24,000
Lighting system	V	400
Drawbar	ø (mm)	50
Bunker dimensions		
Fill quantity	m³	7
Fill height		3,500
Fill side		left
Bunker width	mm	5,200
Bunker depth	mm	1,800
Bunker belt width	mm	1,200
Coarse screening deck		
Length of screening deck	mm	4,000
Width of screening deck	mm	1,200
Screening area	m²	4.8
Screening speed		Continues
Screening section	mm	approx. 60 - 150
Fine screening deck		
Length of screening deck	mm	6,900
Width of screening deck	mm	1,200
Screening area	m²	8.3
Screening speed		Continues
Screening section	mm	approx. 10 - 25
Fine grain belt / medium grain belt		
Belt length	mm	7,200
Belt width	mm	1,000
Usable discharge height (operating position)	mm	3,500
Oversize belt		
Belt length	mm	2,000
Belt width	mm	1,350
Discharge height (operating position)	mm	3,330



# Solutions

The standard versions of the Eggersmann **TERRA SELECT** and **STAR SELECT** screening machines already features a comprehensive range of equipment. Eggersmann EcoEngineers are not just machine constructors - we also have many years of experience in providing consultancy support.

This enables us to propose sensible options that will perfectly adapt your product to suit your application. We will be pleased to advise you personally, and we can configure your machine on the basis of your application.

Find your contact at [www.f-e.de](http://www.f-e.de).



SCREENFIX - star screening deck



AIRFIX - Wind sifting for films and lightweight materials



Long belts - for bigger ejection heights



Magnetic rollers - to separate iron on discharge belt



Stone belt - to separate stones and heavy impurities



Coarse material separator - to protect the bunker in case of large impurities



Radio remote control - to control from the wheel loader



Tracks



Screen segments - for highest flexibility

# Applications

For more than 30 years, product brands from 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 taste of the variety of applications for 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.

**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

You would like to register your machine for inspection or maintenance? You have a service case? No problem! Do not hesitate and contact us today. Our employees are on duty for you worldwide and will be happy to help you on site.

As of now, we also offer maintenance contracts and wear parts packages for your machine. We will be happy to explain detailed conditions to you in a personal meeting.

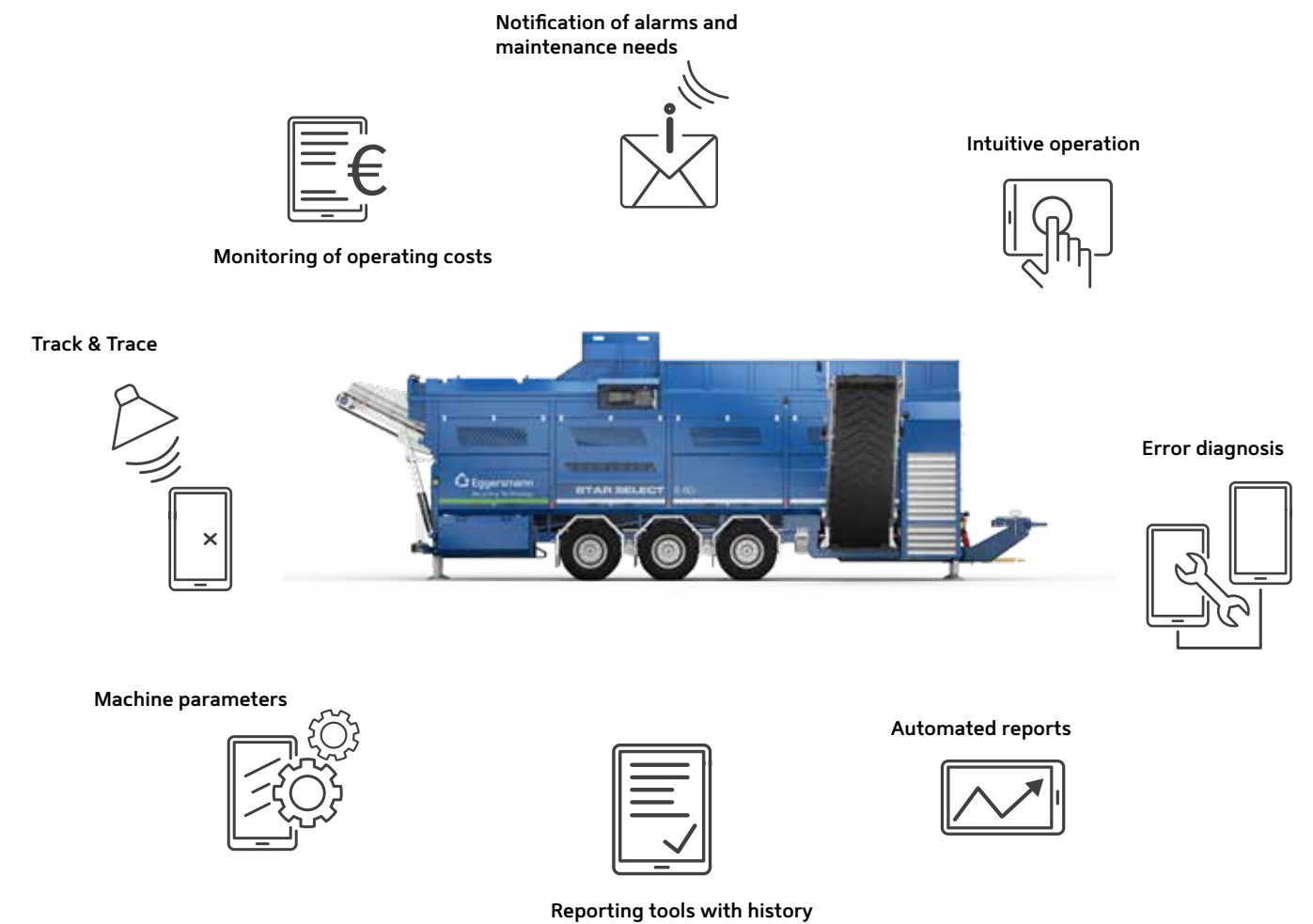
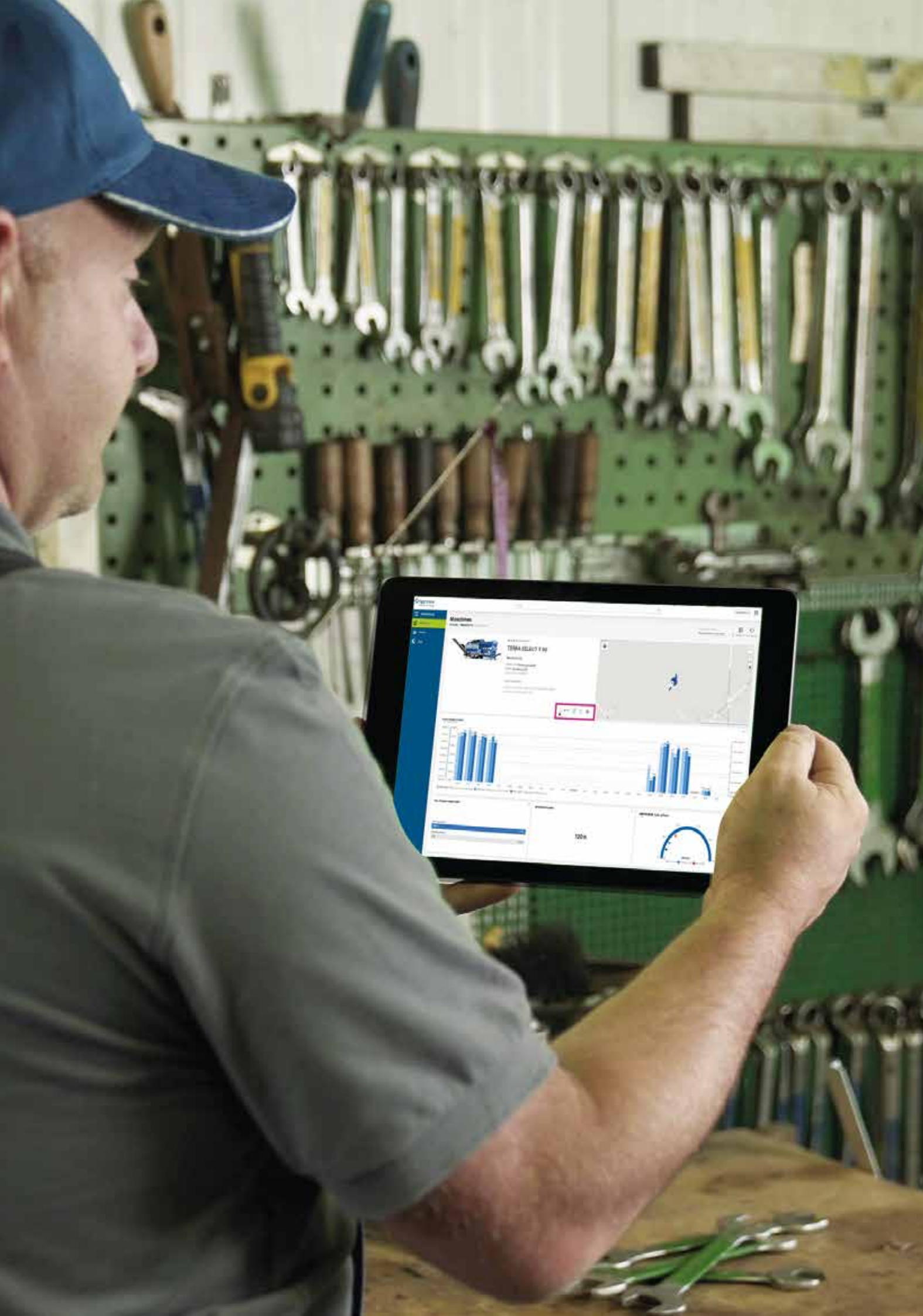
If required, we will evaluate your old machine and, if necessary, trade it in – regardless of whether it is an Eggersmann machine or a machine from another manufacturer.

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

**Simply contact us and we will arrange an on-site appointment as soon as possible.**

**We guarantee a short processing time.**





## 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..

