

**PRODUCT  
SPECIFICATION**

**TEREX®**

**ECOTEC**

**TTS 520  
TTS 520-3  
TTS 520E**

**TROMMEL**



# We turn **visions** into ...



... **innovative** new technologies

# ▼ TTS 520 - ONE DRUM... 2 FRACTIONS



**The TTS 520 is an all-purpose drum screen with an innovative Load Sensing System for minimum fuel consumption.**

The robust design enables it to process the heaviest of materials like gravel and soil. The chassis, which is certified up to 80 km/h, is also suitable for global processing.

**Easy access to the motor, the hydraulic system and the drum allows for ease of maintenance, cleaning and drum change.**

With optional extension walls the capacity of the filling bunker is enhanced by 20%. The hydraulic front drive of the feeding belt ensures efficient feed into the drum and alleviates spillage. During the feeding of the conveyor the TTS 520 can be equipped with an over sized separator; a stone grate or a vibro grate is optional.

**4WD for the drum screen, this concept considerably reduces abrasion and maintenance effort, as well as ease of drum change without tools.**

In order to do so the side cladding and the brush are opened by a hydraulic system and the drum can be changed. The drum is serially equipped with an overload protective device.

**No auger in the drum, no forced conveying - in order to guarantee an optimum output quality with varied materials, the drum tilt, as well as all of the drivetrains are individually adjustable.**

Drums are available in different sizes, in steel and hardox, as well as with a new and innovative mesh grid-quick-change system. Existing Terex Ecotec drums are also compatible. Especially for the processing of domestic waste an innovative Bag-Opener-System is offered.

**The one-piece fine-grain conveyor ensures that no material can accumulate underneath the machine.**

With an electric hydraulic pump all hydraulic drives can be operated without the main engine. The feed bunker is equipped with a drum-sided drive (hydraulic front drive), to take advantage of a drum conveyor belt and easiest maintenance.

**Intuitive control panel with ability to control speed of the drum and the conveyors depending on material you are processing**

The drivetrains can be controlled independently, with a remote control as an option. As an alternative to the diesel engine there is an electric engine available.

# ▼ TTS 520-3 - ONE DRUM... 3 FRACTIONS



The TTS 520-3 offers a completely new and considerably cheaper alternative to the star screen.

The patented system is based on the TTS 520 and enables separation in 3 fractions with all the advantages of a drum screen – low-maintenance, higher screening quality and easy setup. In transport position the dimensions equal the 2-fraction-version and therefore guarantees maximum mobility and flexibility.

The additional disc screen system enables the separation of a third fraction and combines top-performance with maximum flexibility.

There is the possibility to bypass the disc screen and operate the machine in a standard 2 fraction setup.

When using the disc screen the angle of operation and shaft speed can be adjusted to alter the product size.

Option to feed with a loader or conveyor, the TTS 520-3 generates more revenue for every m<sup>3</sup> of your material, whether it be biomass, waste, compost or gravel.

During the development of our machines quality, profitability and uncompromising flexibility is always key.

A core part of our 3-fraction-systems is the disc screen. The metal discs are not only considerably more resistant to abrasion, they can also be exchanged individually to reduce costs.

Due to the flexible design, a grain size from G50 to G200 can be reached depending on the used disc size and distance element which can also be subsequently adapted at any time.

With this screen generation, the discharging belts have been modified to allow for greater material flow and enhanced protection of the hydraulic cylinders.

The discharge height of the sideband, as well as the height of the side panels of the conveyor belts have been adapted to allow for great production

Quality parts and components is a key part of our offering which ensures maximum life cycle of the machine.

Load Sensing as standard: Both TTS 520 versions are equipped as standard with an economical Load-Sensing-Hydraulic-System.

# ▼ OPTIONS



The TTS 520 can additionally be equipped with a stone grate or a vibro grate to remove large debris.

The over length separator based on a disc deck is another option.

The Terex Ecotec Bag-Opener-System for utilization in the waste management industry.

With this system it is possible to open and screen the content of a bin bag in one individual step. You can reach, depending on the number of used knives, a success rate of up to 90%. The system can also be installed subsequently.

The side conveyor as well as the rear conveyor are offered in two different lengths, available in 3,500 mm and 5,000 mm.

Drums are available with 10x10 mm to 50x50 mm screen mesh, as well as 10x10 mm to 100x100 mm steel and hardox boss.

A quick-change system is available for drums with screen mesh which facilitates the use of different size mesh grids with only one drum - special sizes upon demand.

Existing Terex Ecotec drum series TS 5220 can also be used with the TTS 520.

The radio remote control enables the following functions to be operated:

- » diesel engine speed +/-
- » tilt +/-
- » crawler gear
- » engine stop
- » automatic on/off
- » filling conveyor backwards

Other options available to you:

- » central lubrication system
- » fire extinguishing equipment
- » working headlight
- » magnet roller incl. aluminum slide
- » special finish

## ▼ TTS 520E FULLY ELECTRIC



The TTS 520E is the latest evolution of the TTS 520 family and provides a full electric version of the proven drum screen concept.

The TTS 520E can be operated directly from a mains power supply or via the optional diesel generator. The fuel consumption of the diesel electric machine is about 60% of the diesel hydraulic version of the TTS 520.

All hydraulic motors have been changed to powerful electric motors, the hydraulic cylinders are powered by an electric hydraulic pump.

The optional diesel generator offers 42 kVA and can be used to operate the screen or to provide power for other applications.

The generator can be uncoupled from the main tank and operated as a mobile power generator off the machine.

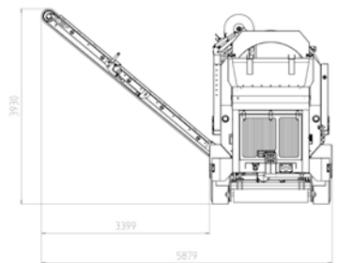
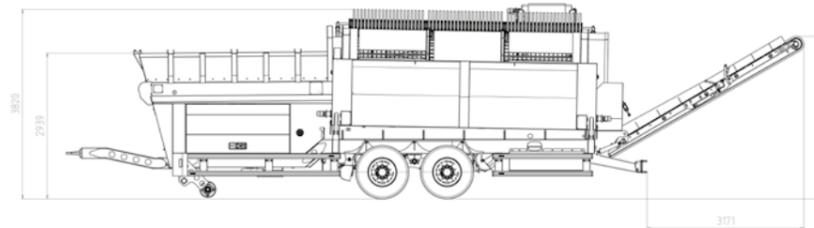
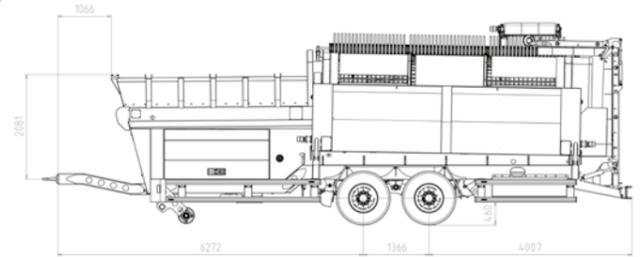
Whether your electricity is coming from the mains or a generator, the operating costs are always lower compared to the traditional diesel-hydraulic screen, due to reduced maintenance and service required.

**User friendly control panels**

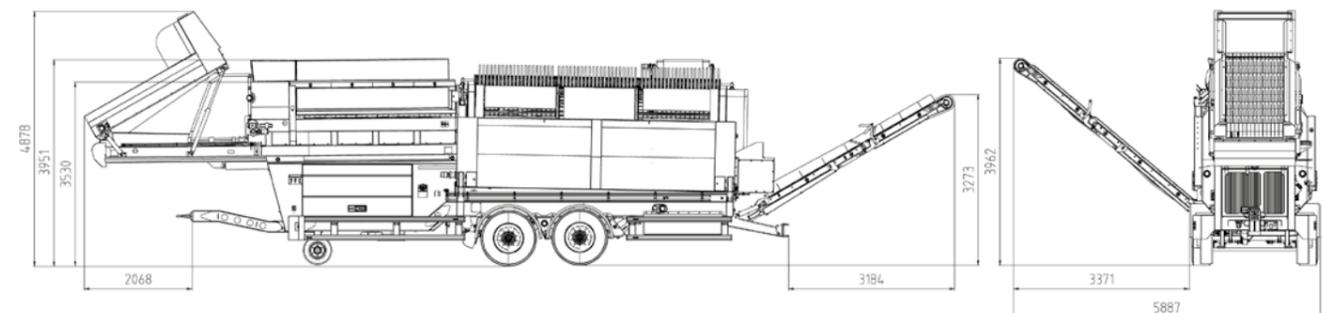
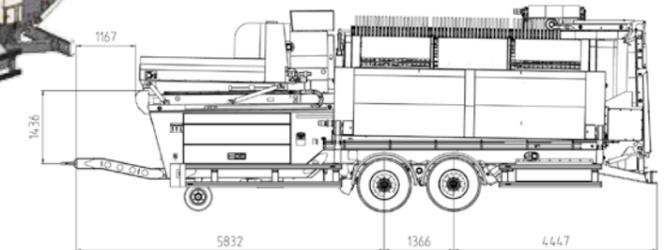
The intuitive menu navigation enables the operator to adjust the machine settings with only a few simple steps to achieve perfect results.

Options like remote control, auto lube, magnet rollers, etc. are available for the electric screen too.

## ▼ TTS 520



## ▼ TTS520-3



# ▼ TECHNICAL DATA

## Technical Data TTS 520E - Fully Electric

<b>Drive</b>	The drum and all the conveyors are driven by electric motors. The hydraulic cylinders are powered by a small electric hydraulic pump
<b>Energy Supply</b>	Electricity from power grid or optional diesel generator

## Diesel Generator (Optional)

<b>Type</b>	GBW 50
<b>Output</b>	42 kVA
<b>Fuel Capacity</b>	420 l main tank 50 l tank on generator



# ▼ TECHNICAL DATA - TTS 520 / TTS 520-3

TTS 520

TTS 520-3

## Main Data

Concept	Drum screen machine	Drum screen machine
Dead Weight	14,800 kg	19,000 kg
Maximum Gross Vehicular Weight	19,000 kg	19,000 kg
Measurements Transport Position (lxbxh)	12,000 mm x 2,550 mm x 4,000 mm	
Chassis	tandem axle with suspension, approved for 80 km/h	
Tyres	385 / 65 R 22.5	385 / 65 R 22.5
Electrical Installation	24V	24V
Drawbar Load	1,000 kg	

## Drum

Inside Diameter	2,000 mm	
Length	5,150 mm	
Screen area in m <sup>2</sup>	29 m <sup>2</sup>	29 / 3 m <sup>2</sup>
Output (performance)	30 - 100 m <sup>3</sup> /h	

## Engine Data

		<b>Optional</b>
Engine (Diesel)	John Deere 4045HFG82	Deutz TCD 3.6 L4
Performance	111 HP / 83 kW	74 kW / 101 PS
Exhaust Emission Standard	EURO Level III A - constant speed	Tier 4 Final
Exhaust System	without exhaust after treatment	SCR Adblue, without particulate filter
Tank Capacity	330l	

## In Feed Hopper

Loading Height	2,960 mm	3,500 mm
Loading Length, serial / extended	3,800 mm / 4,100 mm	4,000 mm / ---
In Feed Height	890 mm	730 mm
Bunker Capacity, serial / extended	4.5 m <sup>3</sup> / 5 m <sup>3</sup>	4.5 m <sup>3</sup>

## Side Conveyor / Fine Fraction Conveyor Belt

Width	1,000 mm
Length, short/long	3,500 mm / 5,000 mm
Discharge Height, short/long	2,960 mm / 3,930 mm

## Rear Conveyor / Oversize Conveyor

Width	1,000 mm
Length, short/long	3,500 mm / 5,000 mm
Discharge Height, short/long	2,500 mm / 3,280 mm

# ▶ CUSTOMER SUPPORT

*With you every step of the way*

We work with our customers to understand their equipment needs so to select the product most suited to their business requirements. Terex Ecotec customer support incorporates a range of services including parts, technical support, warranty and financial services.



### The Right Part at the Right Time

Terex Ecotec has a full inventory of genuine Terex parts through our global support locations and dealer network. We are committed to getting the right parts delivered at the right time. Using genuine Terex parts ensures optimum performance and reliability.



### Warranty Delivering on our promise so you can keep yours

Terex Ecotec warrants its new equipment to be free of defects in material or manufacture for a specified period from the date the equipment is first used.



### Expert technical support

Terex Ecotec provide highly qualified service personnel to ensure that we have the ability to provide technical support when our customers need it. This support is provided in conjunction with our dealer network. We ensure our customers are supported throughout the lifecycle of their machine. Terex works for you.



### Terex Financial Services Financing that works for you.

Terex Ecotec are able to offer finance solutions to our customers. Our team of finance professionals know the importance of working closely with customers to understand their unique business challenges as well as their financial goals and requirements. Obtaining financing is often a time-consuming task, so we work hard to provide a reliable, flexible and responsive service.



**Delivering On Our Promises,  
So You Can Keep Yours.**



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