

TROMMEL

TTS 520

TTS 520-3

TTS 520E

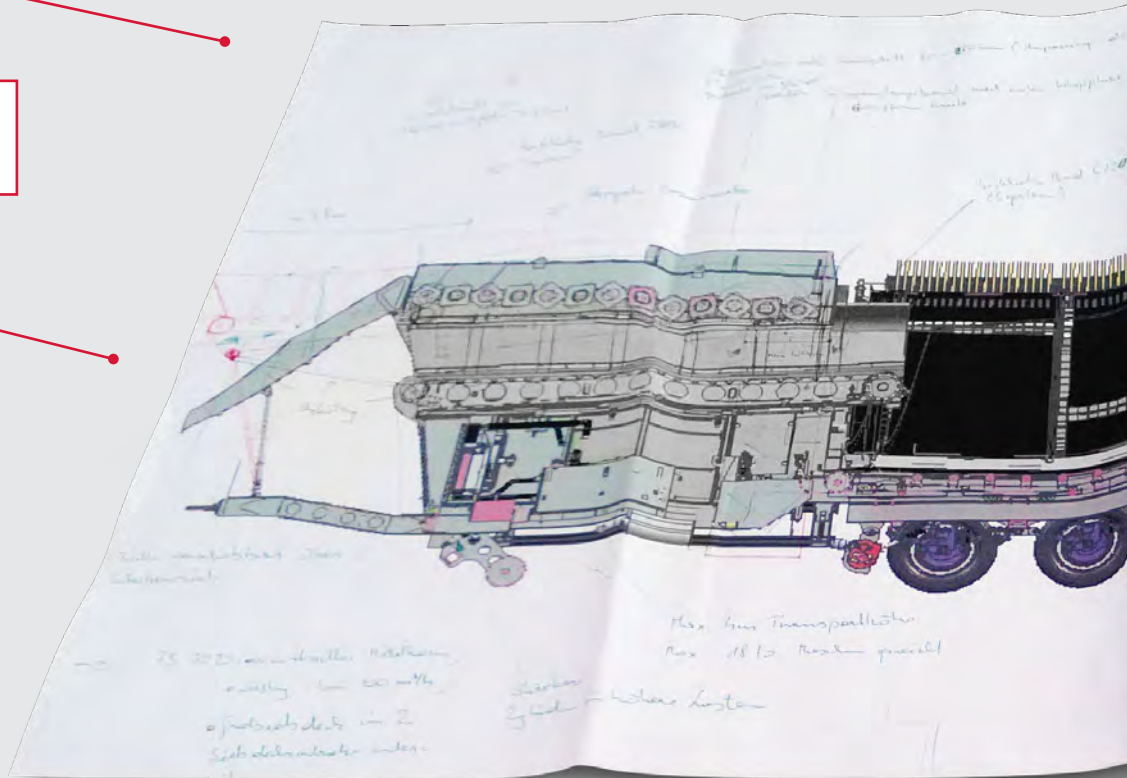


visions

UNIQUE TECHNOLOGY

EASY HANDLING

RELIABILITY



MINIMAL FUEL CONSUMPTION

MAINTAINABILITY

PROFITABILITY

PERFORMANCE

QUALITY

ADDED VALUE

COMPACTNESS

VERSATILITY

UNCOMPROMISING

... **groundbreaking 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 extremely solid design has enough resources to process even the heaviest of materials like gravel and soil. The chassis, which is certified up to 80 km/h, is also perfectly suitable for nationwide utilization.

Open access to the motor, the hydraulic system and the drum considerably facilitates 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 is ensuring the transportation into the drum. A slip through of the conveyor is therefore impossible, even with very heavy material. During the filling of the conveyor the TTS 520 can be equipped with an over length separator; we optionally offer a stone grate or a vibro grate.

4WD for the drum screen, this concept doesn't only considerably reduce abrasion and maintenance effort, it also enables drum change in record time and 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 Environmental Equipment drums are of course compatible. Especially for the processing of domestic waste an innovative Bag-Opener-System is offered.

Hence nothing falls beside the conveyor – the new, 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 even 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.

Full variability with as little buttons as possible. With our intuitive control panel the speed of the drum and the conveyors can be adapted perfectly to the various materials.

The drivetrains can thereby be controlled independently. A remote control is optionally available. As an alternative to the diesel engine there is an electro engine available.

TTS 520-3 – one drum... 3 fractions



The TTS 520-3 poses 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.

Therefore there is the possibility, among others, to bypass the disc deck with an extra operational mode and to screen 2 fractions without abrasion of the disc deck. With the TTS 520-3 as well, all of the drive train parameters are individually adjustable.

It doesn't matter if you are feeding with a wheel loader or a conveyor, if you are processing biomass, compost, gravel or waste, with the TTS 520-3 you have the suitable tool to extract more revenue out of every m³.

During the development of our machines quality, profitability and uncompromising flexibility always have priority.



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 keep the costs low.

In addition to that, 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 revised consistently. This has not only enhanced the material flow, but it has also put focus on the 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 enhanced.



We use only high-end components. Whether it be the engine, hydraulic systems, steel construction or electronics, quality is absolutely worth it in the long run and is positively reflected in the life cycle of machine.

The maintenance-friendly design and a well thought-through concept ensure, that the machine can productively operate over a long period.

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 out of the sieving.

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

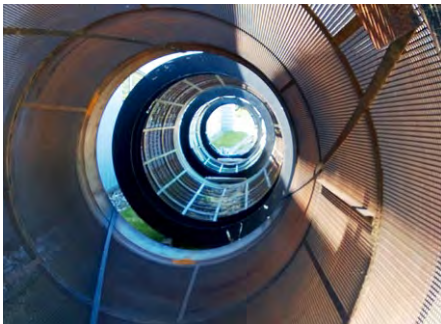


The Terex Environmental Equipment Bag-Opener-System for utilization in the waste management industry.

With this system it is for the first time 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 and are 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 Environmental Equipment drum series TS 5220 can of course be used with the TTS 520.

With the radio remote control the following functions can be operated:

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

Numerous other options can be ordered for example

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

This overview is of course not comprehensive, but we are certainly satisfying all of our customer's needs if they are within our technical feasibilities.

TTS 520E FULLY ELECTRIC



The TTS 520E is the latest evolution of the TTS 520 family and provides a fully 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 with electricity from the grid or generator power, the operating costs based on the significantly reduced service and maintenance costs, are always lower than with a traditional diesel-hydraulic screen.

As usual, the controls of Terex machines are kept simple and the number of buttons and control-switches are reduced to the required minimum.

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

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

TTS 520 STAR SCREEN MODULE



Star screen or drum screen – why not both? With the optional star screen module, the benefits of these two technologies can be used with one base machine.

All TTS 520 screens can be updated with a star screen module – the 3-fraction version can operate a star screen module too, but the star screen module must be transported separately.

The change from drum to stars is similar to drum changes and can be done in several minutes.

The star screen module has a screening area of 5.7m² and can be configured for screening sizes between 10 – 100mm.

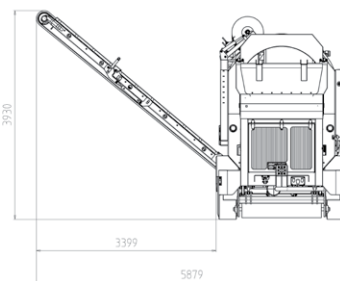
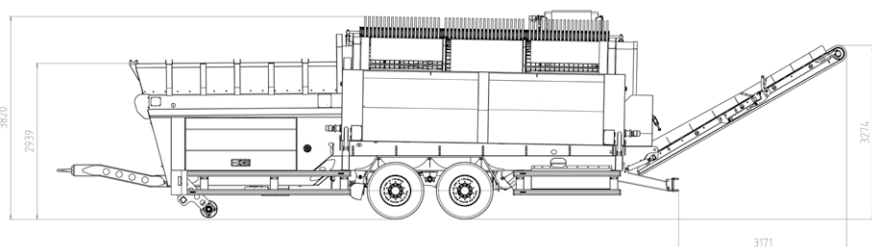
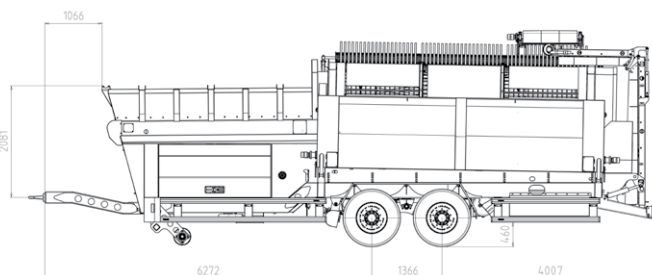
For perfect screening results, there is a dosage roller, which loosens the material and guarantees a constant flow of material.

Material feed rates and star screen speeds can be adjusted to maximize production levels. Several adjustable hydraulic pressure ranges reduce or stop the material flow to avoid blockages or overload.

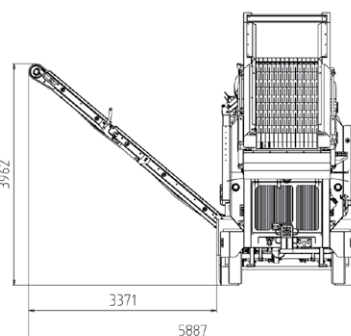
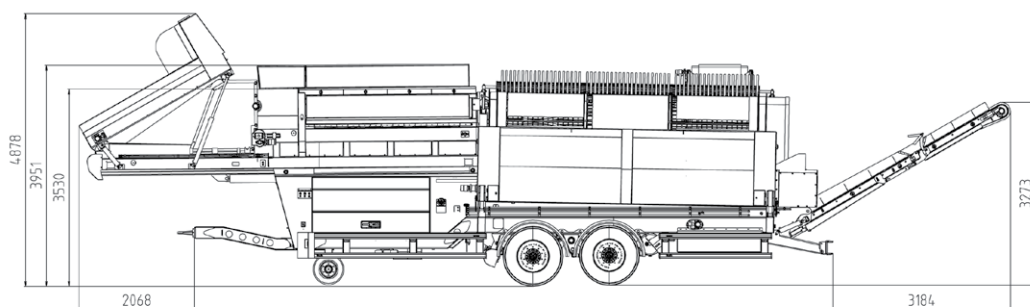
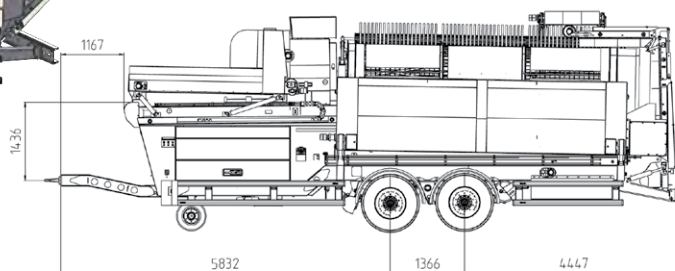
The star screen module offers in addition to other variants of the TTS 520, a further, powerful way to meet the material requirements of the recycling business.

Like all other Terex solutions, the star screen module is designed to provide the customer with another option to meet the requirements of the market in an efficient and cost effective way, combined with easy handling and reliable hardware.

TTS 520



TTS 520-3



TECHNICAL DATA

Technical Data TTS 520E - Fully Electric

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

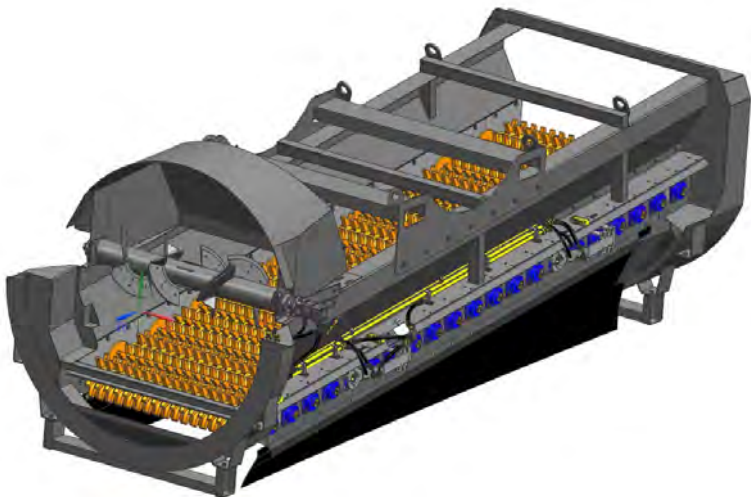
Diesel Generator (Optional)

| | |
|---------------|---|
| Type | GBW 50 |
| Output | 42 kVA |
| Fuel Capacity | 420 l main tank 50 l tank on generator |



Technical Data Star Screen Module

| | |
|----------------------------|--|
| Dimensions Star Deck (L/W) | 4,800 x 1,191 mm |
| Screen Area | 5.7 m² |
| Number of Star Shafts | 21 (dependant on configuration) |
| Particle Size | Depending on configuration - 10 - 100 mm |
| Throughput | Depending on material and configuration - up to 300 m³/h |



TECHNICAL DATA

TTS 520 / TTS 520-3

| | TTS 520 | TTS 520-3 |
|---|--|---------------------|
| Main Data | | |
| Concept | Drum screen machine | Drum screen machine |
| Dead Weight | 14,000 kg | 18,500 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 ² | 29 m ² | 29 / 3 m ² |
| Output (performance) | 30 - 100 m ³ /h | |

Engine Data

Optional

| | | |
|---------------------------|------------------------------------|---|
| Engine (Diesel) | John Deere 4045HF280 | Deutz TCD 3.6 L4 |
| Performance | 77 kW / 105 PS | 74 kW / 101 PS |
| Exhaust Emission Standard | Tier 3A | 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 ³ / 5 m ³ | 4.5 m ³ |

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



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

Parts

TEE 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.

Technical Support

TEE 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.

Warranty

TEE 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.

Terex Financial Services Financial Solutions Made Easy

TEE 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.



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