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Helping you better
understand The
SPRINTER 1500

Sales Guidelines 2025

SALES GUIDELINES

01





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FEATURES AND BENEFITS

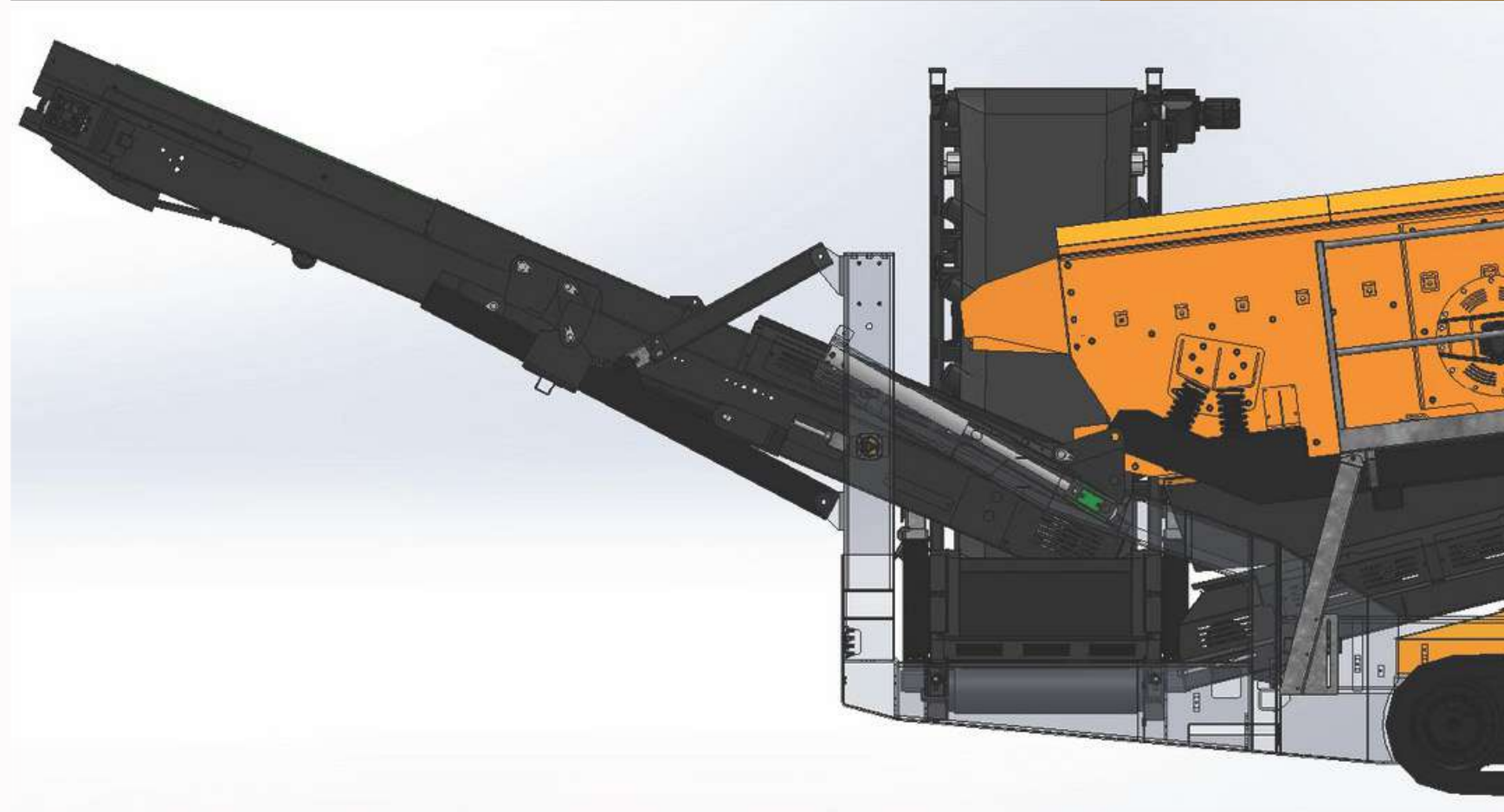
Introducing the revolutionary SPRINTER 1500, a super-sized heavy-duty hybrid mobile screening solution that sets a new standard in efficiency, performance, and versatility.

Designed to excel in vast demanding environments, the SPRINTER 1500 combines the best of diesel and electric power, giving you the flexibility to operate 100% on electricity when needed. With a super low fuel burn utilising a set-speed genset, it ensures a tranquil working environment without compromising on power.

- Diesel Electric HYBRID, Option To Operate 100% On Electricity Supply.
- Unique 2/3 Split Design (Fully Hydraulic) Patent approved
- Oversized 900mm / 3ft Folding Over Top Conveyors.
- Superb Stockpiling Capacity with optional chassis riser.
- Aggressive Throw Of Up To 12.5mm (1/2").
- Improved 5° Screening Angle On Bottom deck resulting in immediate screening action
- Low Noise Set-speed Engine / Genset.
- Fully powder coated painted machine
- Super Access To Bottom Meshes (3 No.,)
- Safe Setup Design With No Manual Labour Required. Patent approved automatic deployment
- guards Maintenance Friendly Access To All Major Areas.
- Permit Free Transport.



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2/3 WAY SPLIT

The SPRINTER 1500 screen offers a versatile full hydraulic 2/3-way split capability, providing operators with the flexibility to choose between 2-way or 3-way split configurations based on specific operational requirements. This feature is fully hydraulic adjustable with no removable parts or no requirement for additional cranes or dismantling, ensuring a seamless and safe transition between configurations.

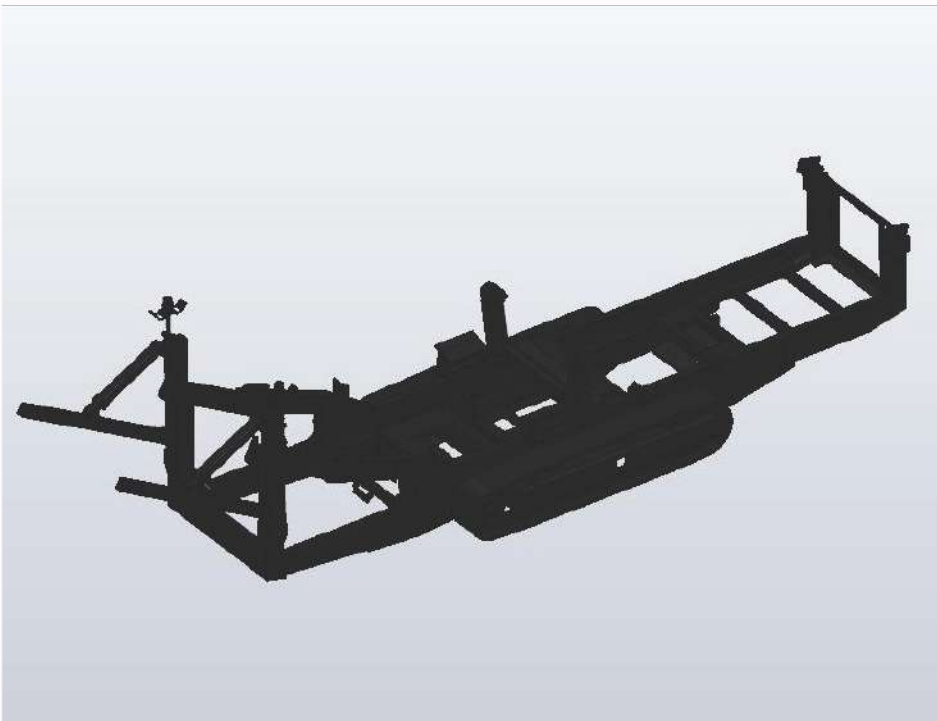
Operators have the option to discharge all clean products from the oversize conveyor, optimizing material handling efficiency. This versatility makes the SPRINTER 1500 an ideal choice when just 'fines' material extraction is required, or it creates the option to work in a crushing line where the SPRINTER could be used for feeding a cone crusher all the oversize and midsize clean screened products from one conveyor source.

The adjustable working angle of the oversize conveyor ranges fully from 12° to 24° in both chosen configurations, allowing for precise customization to accommodate different material conditions and operational preferences.

This hydraulic 2/3-way split capability enhances the adaptability and efficiency of the screening process, making the SPRINTER 1500 a valuable asset in diverse applications.



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03



CHASSIS

The SPRINTER 1500 utilises a unique user friendly-designed chassis with generous access to all service areas. This practical design ensures convenient, safe, and efficient maintenance procedures and maximum operational results.

Remaining at an overall 2.55m / 8'4" total width and an overall minimum transport height of 3.2m / 10' 3" allows for permit-free transportation. Bolted-on 3m / 10' track frames minimise stress relief and ease of maintenance. Note: All ROCO crushers and screens utilise the same tracking system which greatly assists with serviceability and stores inventory backup.

With the use of electric-driven conveyors, this greatly reduces the high volume of hydraulic hoses running throughout the chassis as seen on traditional scalpers, these numerous amount of hydraulic hoses are very acceptable to damage and problematic when it comes to replacement. The featured electric drives are also maintenance-free as the motors and bearings are fully enclosed, therefore lowering service costs and labour greasing times.

The SPRINTER chassis allows excellent flexibility as the fines & midsize conveyor can easily be placed on either side of the machine. If required, both side conveyors can be positioned and operate on the same side of the chassis should the customer need to work in a confined area. In this instance, no additional parts are required as the conveyor's electrical connection boxes are centralised on the chassis and additional welded brackets are already installed on both sides of the plant as standard to make the transition as seamless as possible.



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CHASSIS CONT.

The chassis' unique design also plays a pivotal role in the patent-pending technology that allows the SPRINTER to convert from a 3-way split machine to a 2-way split machine without any dismantling or lifting assistance required. This super quick feature offers the single operator the option to have both oversize and midsize products all exit on the oversize conveyor if desired, all in a matter of minutes. Accessing and changing out bottom deck meshes are also super accessible due to the screenbox rising at the front end combined with the complete lowering of the oversize conveyor.

At ROCO we understand power unit malfunctions do occur. Careful design has been introduced to the chassis engine bay area to allow for the easy removal of a failed engine/alternator should this procedure be required onsite.

The inclusion of a rising collection conveyor (Underneath screenbox area) also offers a safe and accessible maintenance area for inspections, changing rollers & scrapers whilst also allowing access to the fuel tank and main electric/hydraulic powerpack. All SPRINTERS come with new EU CE compliance-tracked lighting installed to assist operators maneuvering the machine in darkness hours. Twin adjustable LED lighting poles and flashing beacons are also installed for safe working practices and for alerting operators of onboard power unit faults.

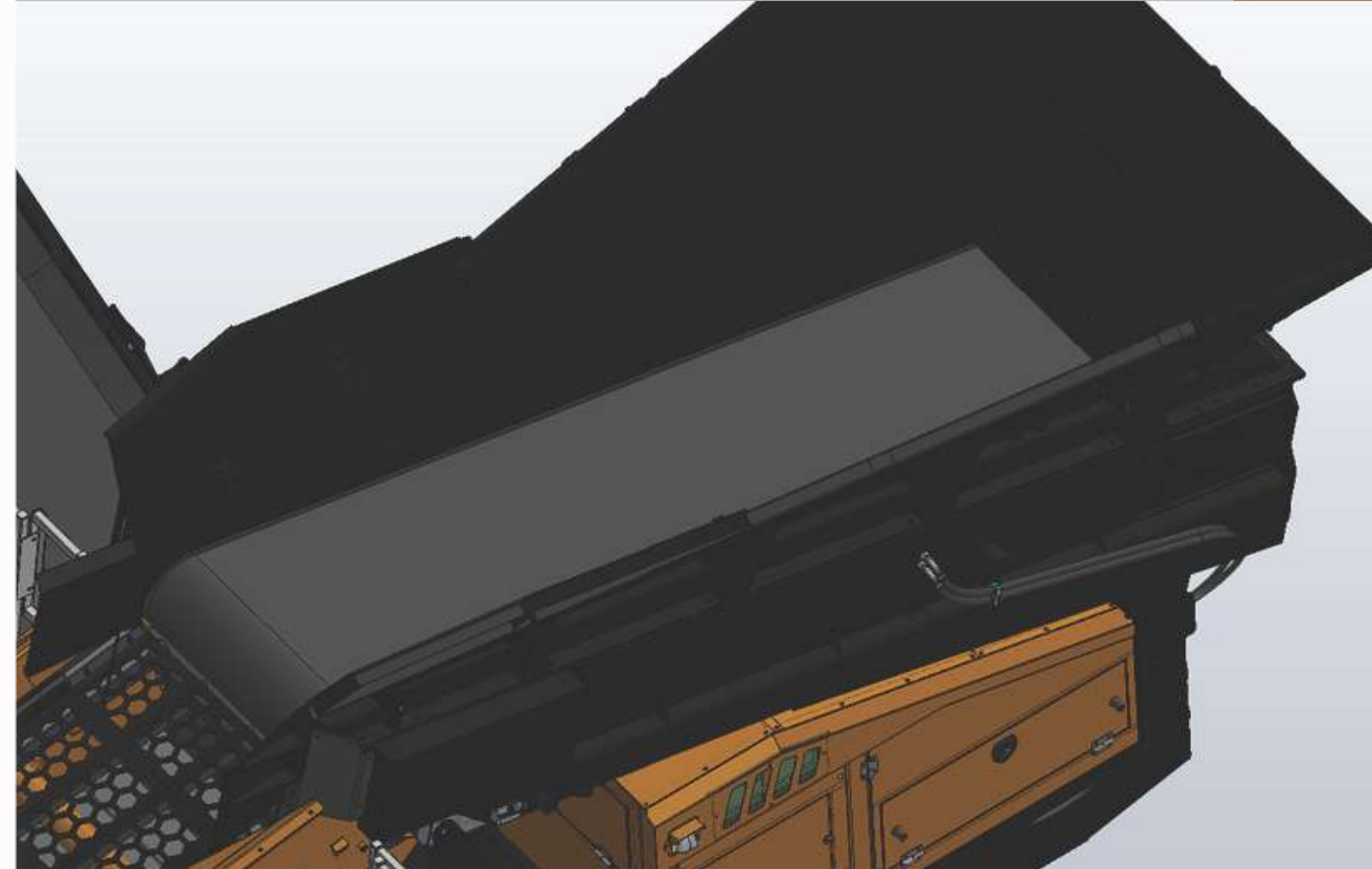
An optional 300mm / 1ft chassis riser can also be easily installed at the time of build and will allow for increased stockpiling capacity if required.



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FEEDER/HOPPER

The SPRINTER 1500 comes equipped with a trouble-free HARDOX fixed hopper offering a generous capacity of 6m³ / 8 Yards. The high-quality reinforced hopper provides ample space for efficient material loading/handling from crushers, excavators or Telehandlers. Impact rollers combined with heavy-duty impact bars protect the feeder system from high-impact loading. The high-quality RIP-STOP / Tough Flex armored belt is designed to withstand damage which makes it suitable for working with all natural aggregates, recycled and demolition materials.

A specially designed scrapper system works best with the belt feeder, 'scrapped' dirt from the scraper falls onto the rear inlet of the screenbox's 2nd deck. A full-length cover plate is also installed directly beneath the feed conveyor/apron feeder to prevent any falling dirt/materials from landing on the engine bay, thus creating a safe and clean working area below.

1200mm / 4ft wide heavy-duty Rip-stop belt provides a continuous efficient flow of material to the screenbox. Driven by an oversized reduction gearbox and Electric motor, maximum torque is on demand. Equipped with a ground level Variable speed drive (VSD) this allows the operator to fine-tune the exact required feed speed regardless of the volume of materials present in the hopper. This powerful feed system also offers the flexibility of optional hydraulic folding hopper extensions which can be beneficial with light and bulky materials and wheel loader feeding. 9m³ / 12 yard capacity

Additionally, operators have the option to enhance the equipment's capabilities with an optional Heavy Duty Steel apron feeder system fitted with Hardox paddles if desired. This all-steel, chain-driven feeder system is best suited for robust material or inconsistent heavy loading. New ROCO designed super sealed 10mm HARDOX paddles eliminate the egressing of fine materials. The feed system is raised and lowered from transport to work position via sliding hydraulic cylinders. The centralised greasing area at the rear ground level of the feeder to all feeder system greasing points.



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SCREENBOX

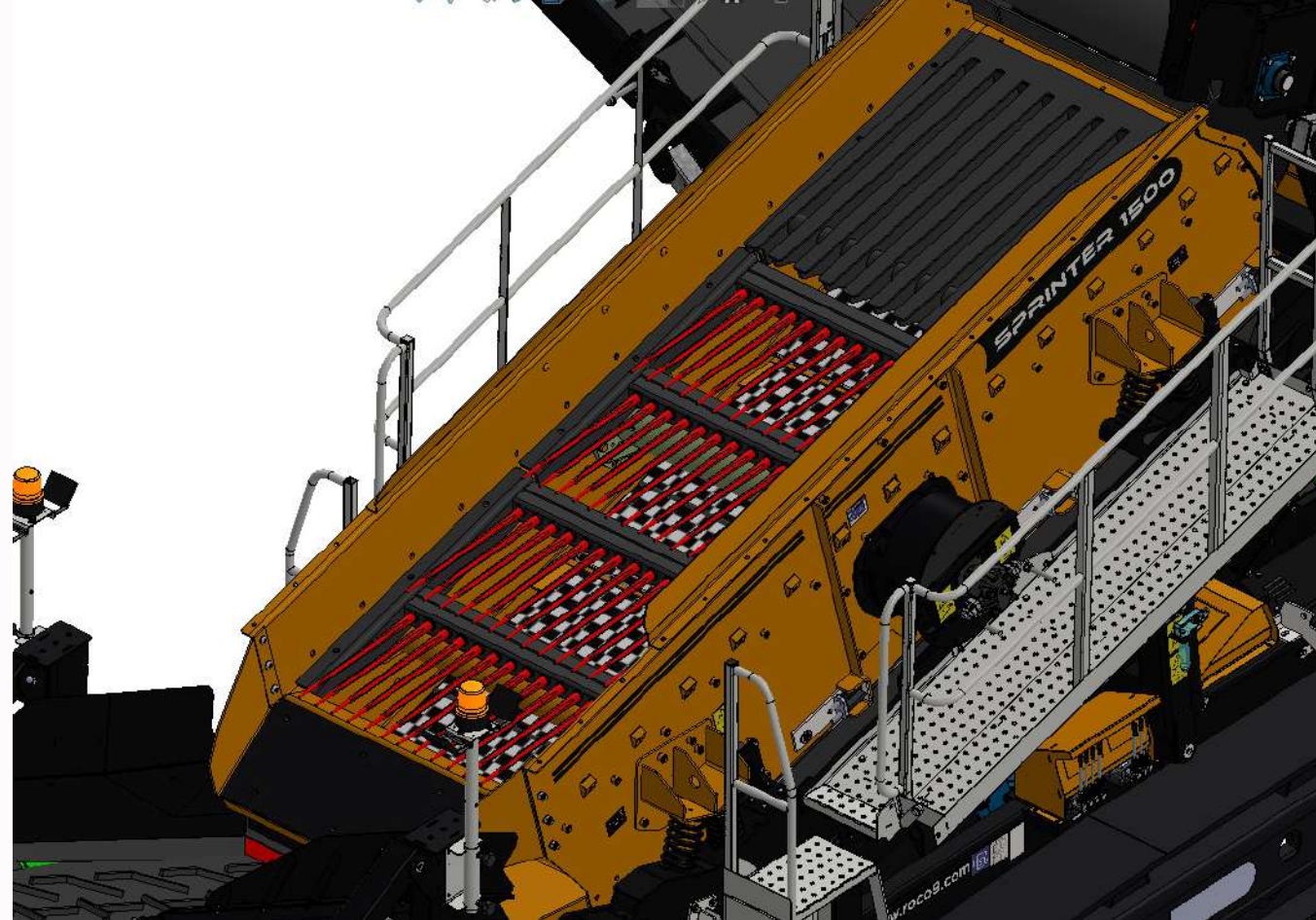
The all too important Screenbox - This is not just a standardised screenbox that produces 3 grades of material, it's so much more. Over 3 decades of engineering experience has designed the SPRINTER screenbox and it completely excels in its application. The precision laser cut and huck bolted screen is built for longevity and performance. With a true screening area of 4.2m x 1.4m / 14ft x 54" combined with its various features, throughput and proper segregation is guaranteed. The SPRINTER can easily work as a finishing or scalping screen due to its massive range of adjustments and speed.

The screen drive system is powered by the utilising the onboard 37kw / 50hp electric /hydraulic powerpack. The screenbox is driven the by a hydraulic drive motor with a flexible coupling, ensuring reliable and efficient performance. With the largest eccentric throw capability in its compact size category of (12.5mm / 1/2") its got aggression in abundance that allows it to handle any bulky or fine materials with ease.

With its ROCO designed flywheel covers, the operator can access the flywheel weights on the shaft without the need to dismantle any drive motors, cables or hoses. This unique feature combined with a flow control regulator offers a single operator versatility and the option to vary the screenbox speeds from 800-1200rpm while also adding or removal of additional weights can be performed safely and swiftly.(6mm-12.5mm / 1/4"- 1/2") stroke adjustment.



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SCREENBOX CONT.

As with any scalping machine, the top deck acts as a relieving deck and can be installed with Finger tines, Hardox bofars, Punchplates or standard meshes. Media tensioning on the top deck is side-tensioned and bolted for ease of maintenance. A very useful short 1st section of mesh or punchplate of 600mm / 2ft in size is fitted at the top of the screenbox where it accepts the feed material. This area wears out the quickest and therefore this small section is efficiently and easily changed when required. It's also a good solution to install a smaller than desired aperture mesh on this first short section to encourage materials to travel further down the screenbox assisting with a better-screened product.

The more important bottom deck is where the real screening action takes place. Another new feature of the SPRINTER screenbox is its extra additional 5 degrees angle on the first mesh of the bottom deck. Traditional scalping machines do not utilise up to the first 400mm / 16" of the bottom deck and therefore lose at least 10-15% of important screening area. By increasing the bottom deck angle an extra 5 degrees the SPRINTER screenbox is utilising 100% of its bottom deck. This 100% coverage allows the Sprinter to compete with larger models and gain the same screening results.

The bottom deck is also split into 3 end tensioned screen meshes which makes it a single-person operation to handle and replace when desired, full frontal access is achieved by rising up the screenbox. Spacing between the bottom deck and centre shaft is also in excess of an impressive 300mm / 1ft to further assist with maintenance and prevent blockages.

Working angles can be varied between 12°-20° while extra deep screenbox walls prevent overspill. Bolted-on screenbox chutes assist with repairs when required and are also fitted with replaceable Hardox liners as standard.



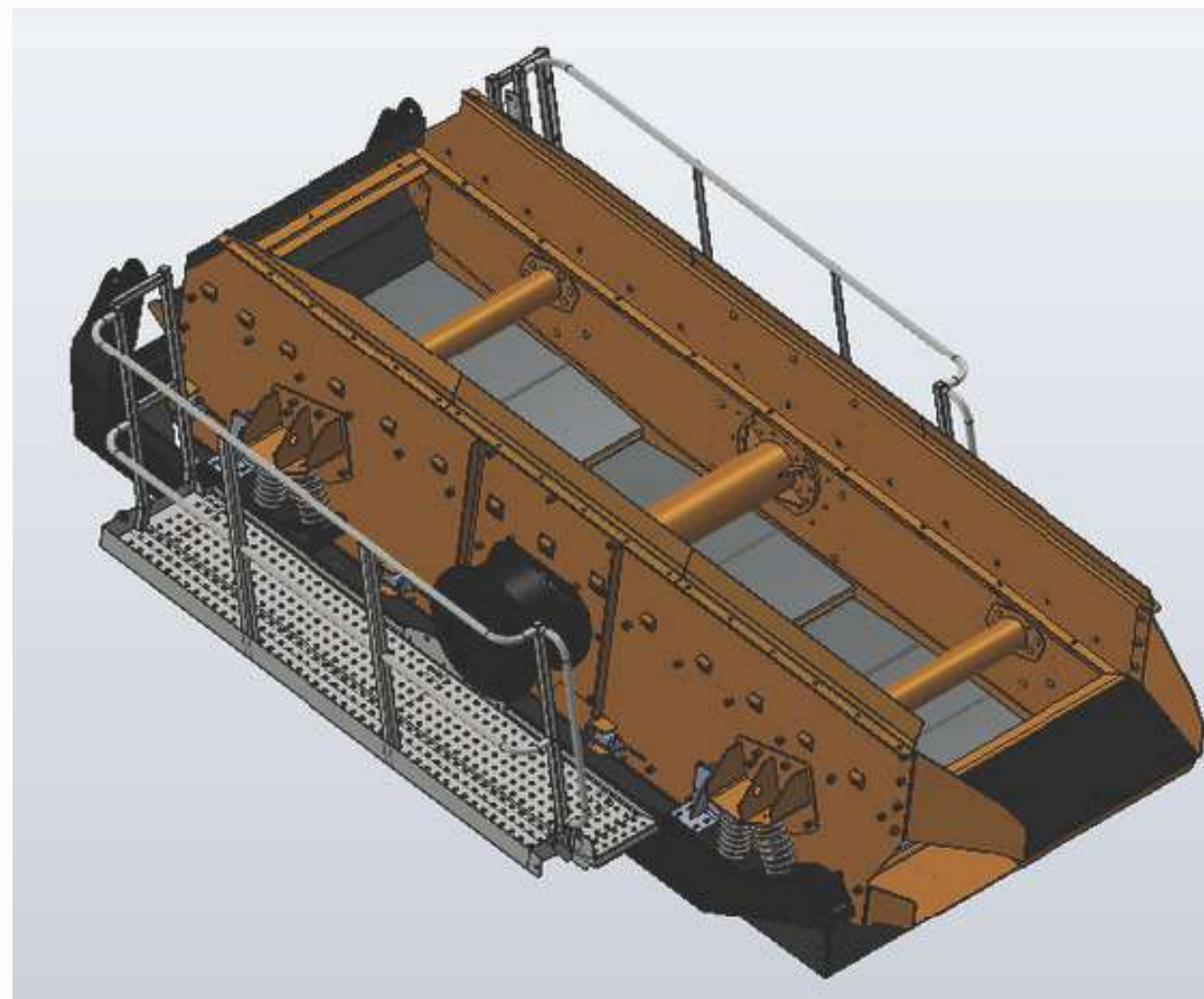
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SCREENBOX / COLLECTION CONVEYOR

Generous double-sided 600mm / 2ft maintenance platforms and ladders allow safe access and an area to carry out daily checks.

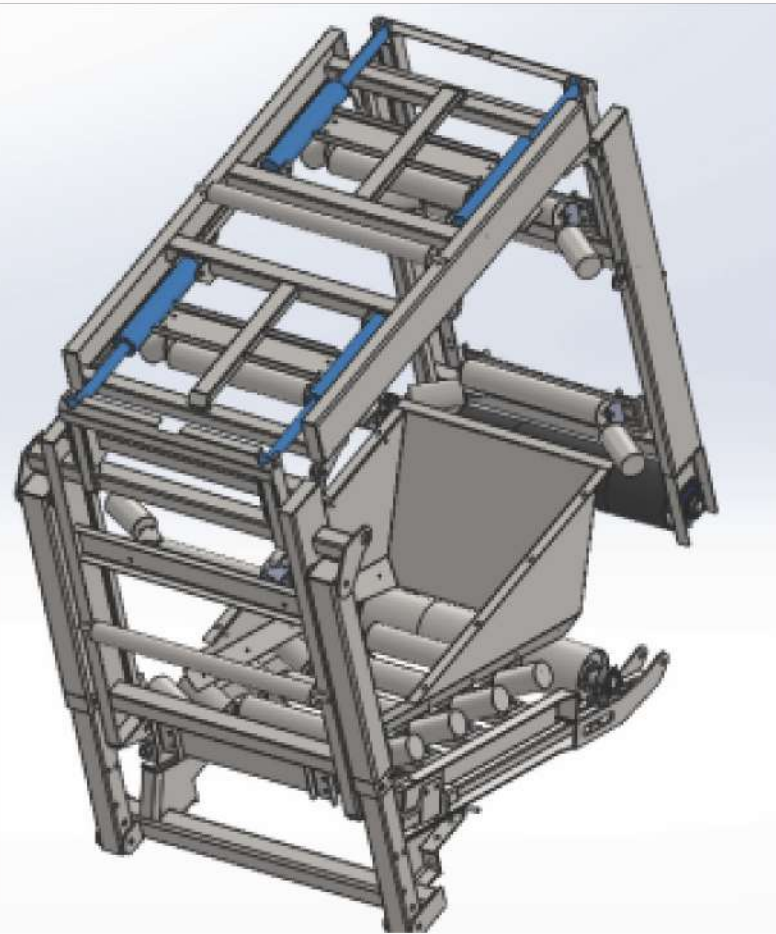
All fine materials dropping from the screenbox are collected on a 1050mm/ 42" wide collection conveyor directly beneath. This fixed speed (1.6m / 5ft per second) electric-driven collection conveyor is operated independently to the screenbox and will not interfere or slow down the screenbox performance while under heavy load.

The collection conveyor can also be attached to the screenbox and raised up to allow user-friendly access to the internal chassis area or to assist with carrying out maintenance in that desired area. An upgraded high quality Roco designed Tugsten tip scraper now comes as standard on all new builds.





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SIDE CONVEYORS

The fines and midsize conveyors have a generous standard width of 900mm (36"), ensuring effective handling of various materials. The conveyors feature a compact hydraulic folding system for transportation (3 sections, over the top fold). Both conveyors are fitted with maintenance-free fully electric drive drums/pulleys with a dust-free internal bearing system. Diamond-shaped drive drum lagging offers maximum belt grip while high torque gearboxes ensure peak performance.

Utilizing a unique ROCO design, the conveyors folding hydraulic cylinders are strategically positioned inside of the conveyor frames. This offers full protection to the cylinders from falling debris/rollback during operation. It should also be noted that the hydraulic cylinders are also fully closed when in the working position (Rod retracted) This feature eliminates weather damage to the cylinder rods & seals when exposed to the elements over time. Each side conveyor feed booth is designed at the max 27 degrees which means the conveyor belts sit flat on the centre rollers and minimizes spillage while operating at the max working angle. Both side conveyors can be hydraulically lowered to the horizontal/ground level position for maintenance procedures.

Max standard stockpiling heights

Fines - 4.1m / 13ft 6"

Midsize - 4.0m / 13ft 2"

Note:

Stockpile heights will increase by an additional 300mm/1ft with the optional chassis riser installed.



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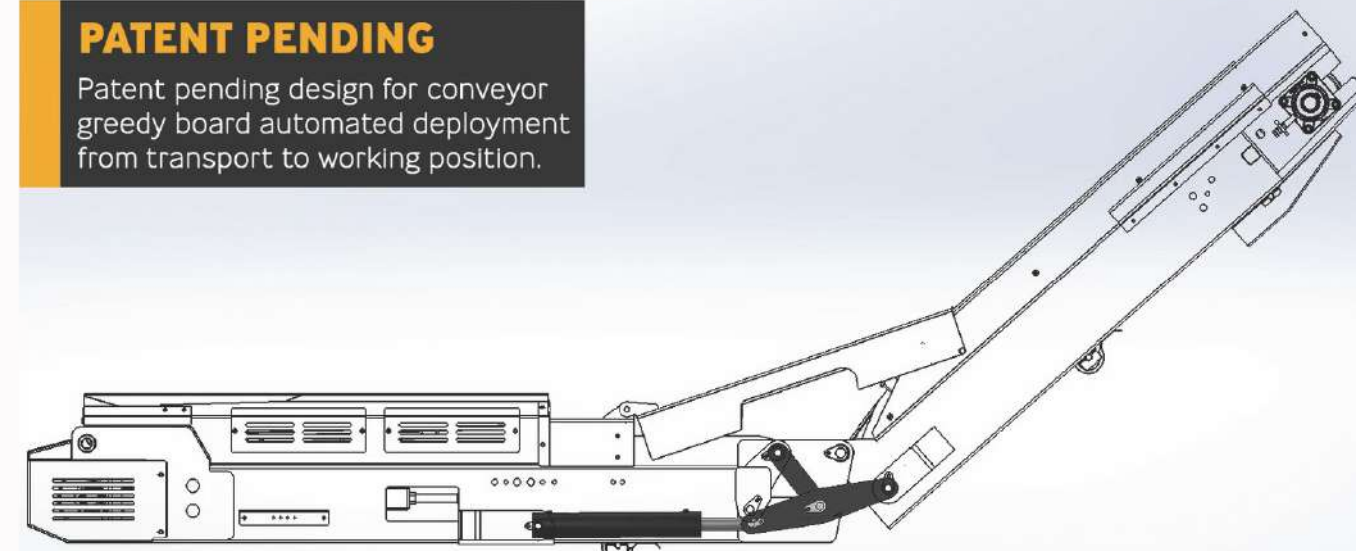


OVERSIZE CONVEYOR

Screened oversize material from the top deck transfers seamlessly to the 1200mm / 48" wide Oversize conveyor. Fitted with heavy-duty impact bars & impact rollers, combined along with an extra deep chevron rubber design, the oversize belt is designed to carry large volumes of bulky and heavy material to the stockpile while full hydraulic adjustment also reduces roll-back.

PATENT PENDING

Patent pending design for conveyor greedy board automated deployment from transport to working position.



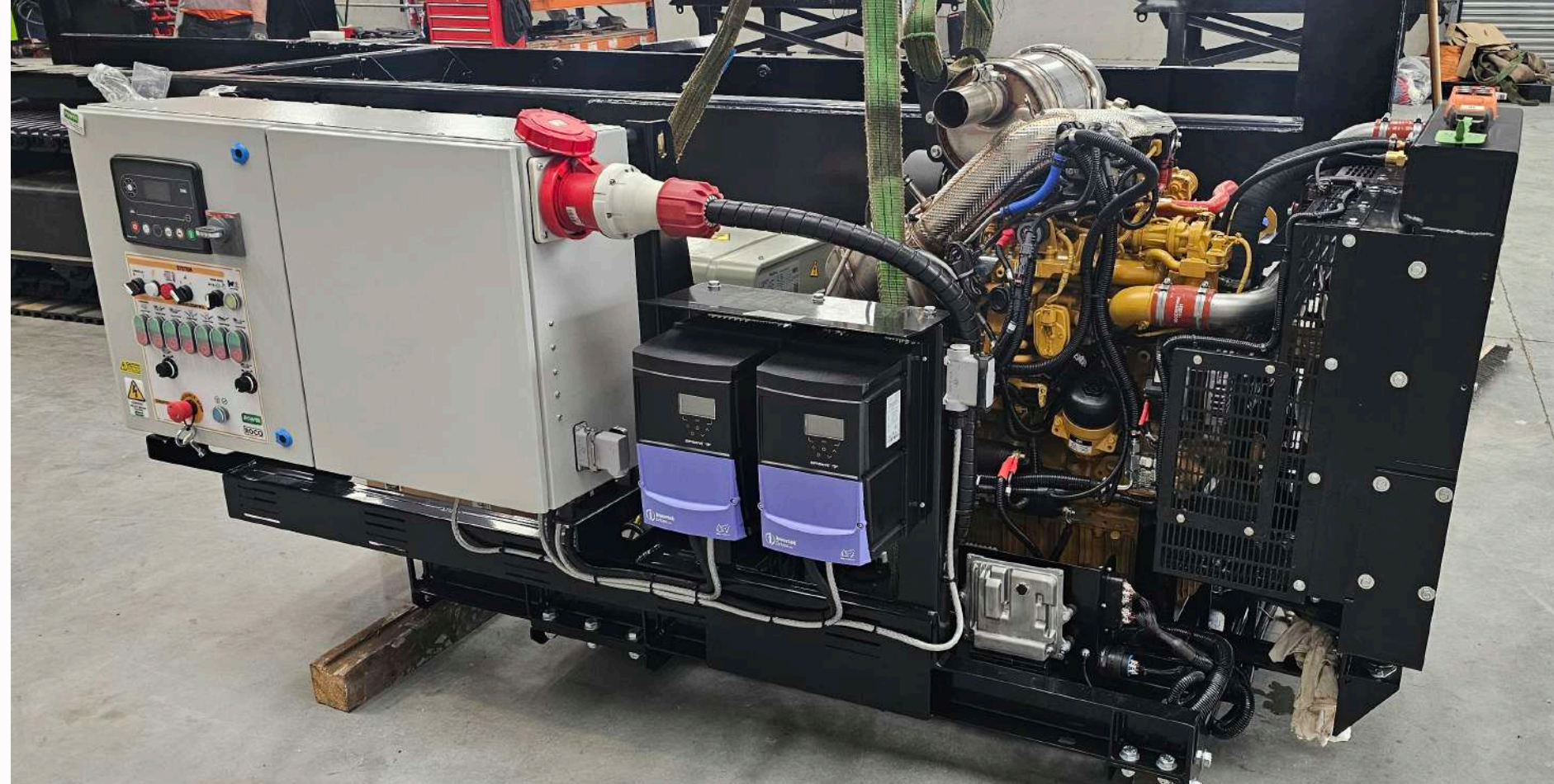
Fitted with an bespoke oversize high torque 1m / 3ft 6" p/s, 5.5kw / 7hp internal electric drive drum fitted with high quality diamond shape lagging. With the use of an independent variable speed drive (VSD), the operator can fine-tune the belt speed to perfection. The VSD also assists greatly when the operator may choose to use the machine in either 2 or 3 way split configuration as the oversize belt run speeds can be adjusted accordingly depending on the volume of material present. It should be noted that there is no compromise to the oversize conveyor performance in either the 2 or 3 way split configuration as it can maintain its min to max working angles of (12-24 degrees). This feature is also very useful for maintenance or fitting bottom deck meshes as the oversize conveyor can also be lowered to the ground level position.

Patent approved automatic deployment safety guards fall into place while the operator unfolds the conveyor hydraulically after transportation. This unique design eliminates the safety risk & requirement to climb onto the machine and results in a much quicker set-up



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POWER UNIT

Efficiency is at the heart of the SPRINTER with a bespoke built Power unit.

The power unit has been designed and built specifically for the SPRINTER 1500 as it operates at a cool set speed which results in very low operating noise (88dB) and with an extremely low fuel burn of only (8-9ltr / 2Gal p/h) when operating.

The operator also has the option to run the full SPRINTER screening plant without the requirement for any fuel & zero engine noise, if so desired this can be acheived by utilising the standard electric plug in feature

This standard dual-powered run option can be extremely useful for cutting out engine maintenance, fuel bills and service costs completely. Another advantage of running fully electric is that the SPRINTER will comply with government legislation for noise-restricted areas while also offering the choice to operate and screen materials inside a building carbon Monoxide free.

Featuring a set speed Caterpillar C3.6 100Kw / 134hp engine operating within the range of 1500-1800rpm, coupled with a Leroy-Somer LSA Series 88kva prime alternator, power and performance is on demand. Additional winding protection has been applied to the alternator windings making it suitable for operating in dusty environments.



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POWER UNIT CONT.

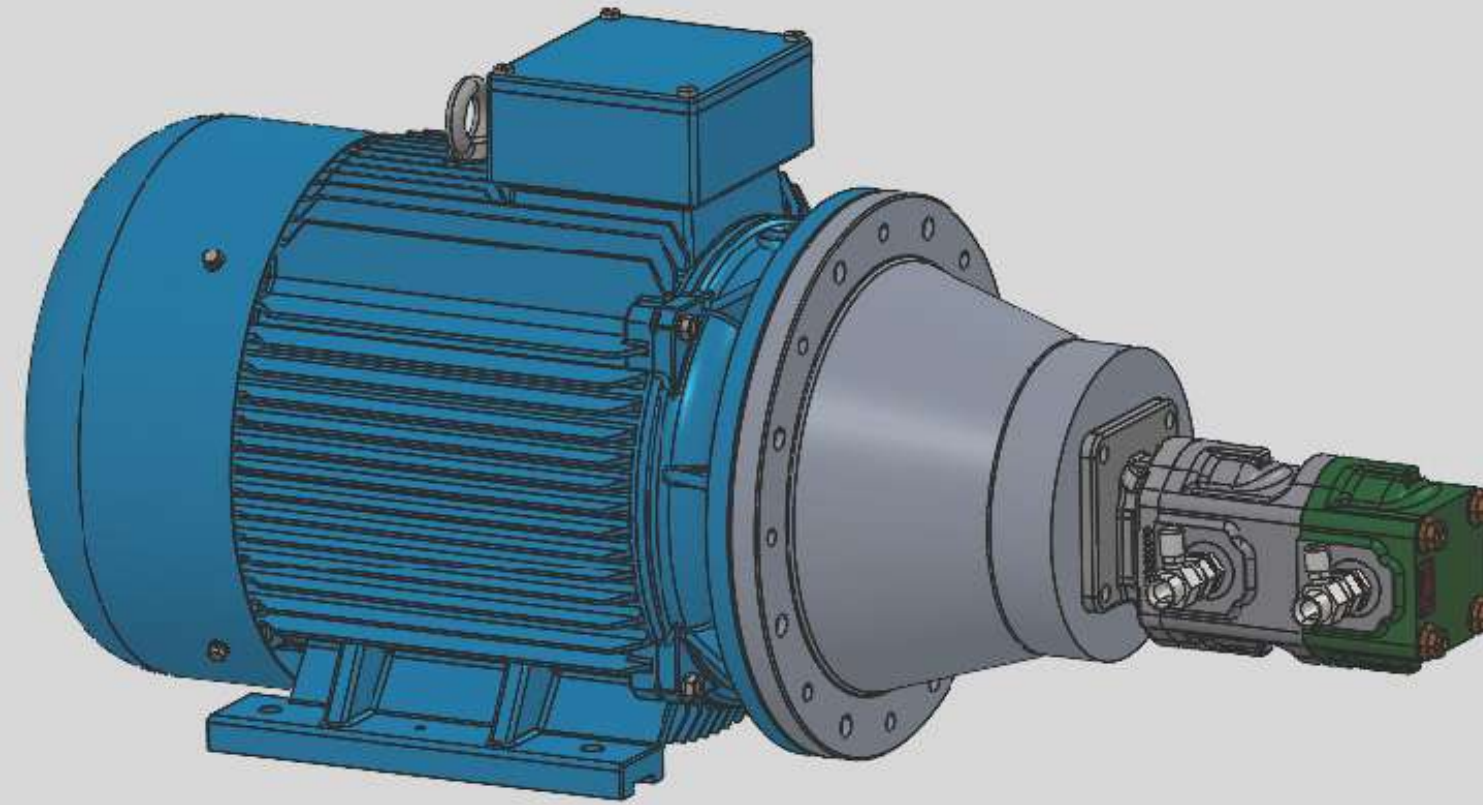
Serviceability is also key, All daily checkpoints and filter locations are easily accessed at ground level through service panels. A specially designed Louver system caters for the intake of fresh cool air and an oversized tropical radiator also offers further cooling while working in hot climates. Internal engine bay LED lighting is installed to assist with maintenance.

Safety protections can be found for any onboard malfunctions and will be highlighted through the Deepsea engine operating panel. The operator is alerted onsite of any onboard issues via an external pulsing flashing beacon. An automatic switch has been installed to cut off the engine and avoid DEF issues as the machine will shut down when the level falls below 13% of DEF / Ad-Blue. Engine warranty is direct with your local Caterpillar agency for maximum uptime and support.

Each bespoke power unit is tailored for various global regions
STAGE-V - EU - 50Hz @1550rpm
T4F / STG V - USA / CANADA - 60Hz @ 1800rpm (EPA / California approved)
T3-ROW - 50Hz



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DEPLOYMENT/ HYDRAULIC POWERPACK

A bespoke onboard electric hydraulic power pack, consisting of a 37kw / 50hp electric motor coupled with twin 33cc pumps offers hydraulic power on demand. This practical system is responsible for all track maneuvering and hydraulic cylinder adjustments. The Powerpack is also fully utilised while the SPRINTER is working as it supplies the Screenbox motor with an independent flow of hydraulic oil, resulting in an undisturbed supply of oil for maximum screening power and performance. This electric drive also offers 100% efficiency and no lagging in hot climates or as the system heats up during the course of the working day.

The tandem 33cc pumps also offer individual supply to each of the track assemblies, ensuring maximum power for climbing onto work platforms or onsite maneuvering on rough terrain. The DK29 undercarriage consists of 3500cc drives with 32° grad-ability. It also has an automatic 2-speed function which engages high-speed tracking when there is little torque resistance. Pressure testing points are installed on both pumps for onsite maintenance. The hydraulic reservoir is also fitted with a low-level sensor and will prevent the powerpack from activating in the event of a low oil level alert.

Note: SPRINTER, RYDER & ICON models all utilise the exact same Power pack & 33cc tandem pump which greatly assists with serviceability and stores inventory backup.



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CONTROLS

A user-friendly, informative control panel ensures quick start-up times even for novice users. A coloured and numbered system guides the operator safely. This extremely easy-to-use control system is very convenient when it comes to the SPRINTER working in rental fleets as the full plant is operational with just a few easy touches. A 'Deepsea' engine controller with an LED display offers full engine data and genset feedback for any troubleshooting. The electric control panel is powered by a short heavy-duty quick-release connection plug directly from the genset. The operator can choose to select Auto or Manual work modes or choose Power pack mode for deployment.

Auto - The panel will perform an automated, safe and timed start-up of all components. As each drive activates it will illuminate a green run light. In the event of an onboard fault, a red illuminated light will appear highlighting the faulty drive.

Manual - Can be used for full start-up if desired but most useful for carrying out maintenance and daily checks.

Tracking - Powerpack mode - For all tracking procedures and set-up.

Operators also have full flexibility to power the entire SPRINTER plant via an external 50 or 60Hz power supply. (100% electric). In this event, simply unplug the existing genset Quick-release connection plug to the control panel and insert the onsite certified power cable using the same quick-release socket. The control panel and all start-up procedures will remain the same for the operator in either diesel or electric mode. Use the toggle selector switch on the panel to choose between genset or line power.

All steel chassis components and the electric control panel are earth-linked and run back to an earth leakage switch, ensuring that the machine is fully grounded at all times. This comprehensive electrical design prioritizes safety, mitigating the risk of electrocution in the event of a fault and providing operators with a secure and reliable power supply for the SPRINTER 1500 while in operation or standing.

Every electrical component and all cables inside the control panel are labeled and numbered for ease of problem-solving while also accompanied by a wiring schematic. All internal components are from highly reputable recognised OEM global supply partners.



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STANDARD SPECIFICATION

The SPRINTER comes complete with all the following spec included in our standard build

- CAT C3.6 Engine / 80- 90Kva continuous rating Genset (50/60Hz)
- Dual powered - Diesel electric build with 100% electric plug-in quick release system Belt feeder system fitted with high-quality RIP - STOP belt
- Full hydraulic 2/3 way split conversion system - Patent approved
- All electric drive drums - VSD installed to Feeder and Oversize
- 900mm side conveyors
- Dog lead track pendant
- Screen meshes of choice installed to top & bottom decks
- Additional screenbox weights supplied
- 600mm double-sided fixed maintenance platforms
- Twin LED lighting poles, tracking and engine bay lighting
- Tungsten Tip scraper on collection conveyor
- Top quality Powder coated paint finish
- Automatic deployment guarding on oversize conveyor - patent approved.



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OPTIONAL EXTRAS

- Punch Plates - Hex or circle design
- Finger tines 2-5" - top deck
- HD Bofor Bars - top deck
- Radio Remote Control for Tracking / Feeder
- Heavy Duty Steel Apron Feeder (Replaces Belt Feeder) 10mm Hardox Sealed
- Paddles Chassis Riser - additional 300mm / 1ft. Transport height will increase to
- 3.5m / 11' 5" Hydraulic Folding Hopper Extensions - 9.0m3 Capacity
- Auto greasing system

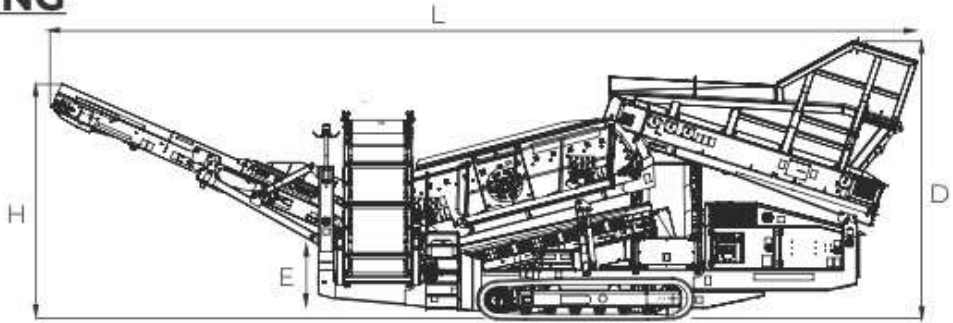




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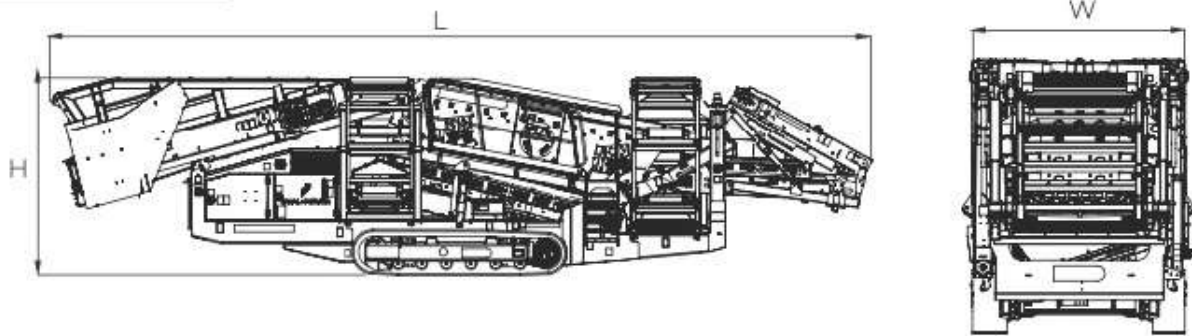
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WORKING



L	W	H	D: Hopper Extension	E: Chassis Riser
14.36m	12.7m	3.15m	3.45m	300mm
47' 1"	41' 6"	10' 3"	11' 3"	11"

TRANSPORT

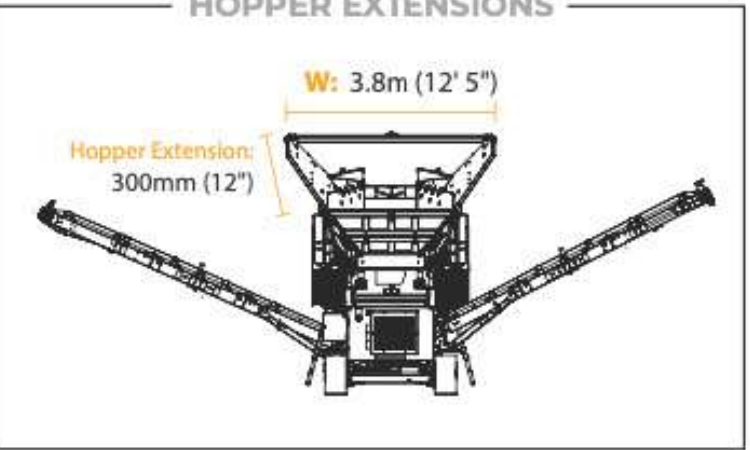
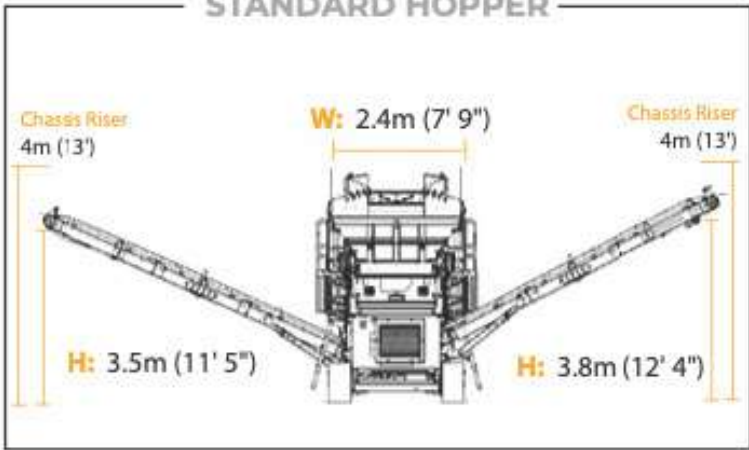


L	W	H	Chassis Riser
13.91m	2.55m	3.15m	3.5m
45' 6"	8' 2"	10' 3"	11' 5"

DIMENSIONS

Overview

- Length - Transport 13.78m (45' 3")
- Length - Working 14.24m (46' 8")
- Width - Transport 2.55m (8' 2")
- Width - Working 12.591m (10' 11)
- Height - Transport 3.2m (10' 6") / 3.5m (11' 5") Chassis
- Riser Height - Working 3.8-4m / 12ft 5" - 13ft 5"
- Weight - 27,000kgs / 59,500 lbs - Standard Build
- Easily Transported By Standard Trailer/Low Loader



COMPETITIVE ANALYSIS

STANDARD SPECIFICATION		Roco 1500 Sprinter		McCloskey		Terex		Keestrack	Kleemann
Area	Feature	Standard	Chassis Riser	R105	R155	Finlay 883+	Powerscreen 1400X	K4	802
General	Transport Length	13.78m		14.62m	15.30m	14.8m	14.17m	10.7m	15.84m
General	Transport Width	2.55m		2.5 m	2.9m	3m	2.75m	2.8m	3m
General	Transport Height	3.15m	3.45m	3.2m	3.4m	3.4m	3.2m - 3.5m	3.1m	3.4m
General	Weight	26,400kgs (Aprox)	27,000kgs (Aprox)	23,000kgs	32,000kgs	31,000kgs	26,500kgs - 27,600kgs	26,500kgs	30,000 kg
Hopper	Capacity	6m³ Hyd Ext 9m3)		6m³	7m³	7m³	7m³	5m³	6m³
Hopper	Feed Width (Rear)	2.5-3.5m (Ext Opt)			2.758m	4.85m	2.6m	2.5m	-
Feeder	Belt Width	1200mm		1200mm	1400mm	1200mm	1200mm	1120mm?	1400mm
Screen	Screenbox	4.2m x 1.4m		3.66m x 1.35m	4.5m x 1.5m	4.8m x 1.5m	3.6m x 1.25m	4.2m x 1.4m	4.8m x 1.5m
Screen	Screen Angle	12°- 20°		14°- 19°	16°- 20°	13°- 19°	13°- 19°	-	15.4° - 20°
Screen	Screen Access	Hyd Jack-Up (3 No mesh.)		Hyd Jack-Up	Hyd Jack-Up	Hyd Jack-Up	Hyd Jack-Up	Hyd Jack-Up	Hyd Jack-Up
Screen	Screening Action	Electric/Hydraulic		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Screen	Screening Speed	800-1200rpm		950-1130rpm	950-1130rpm	1000rpm	850-1050rpm	N/A	N/A
Screen	Screening Throw (Max)	12.4mm		10mm	10mm	10mm	12mm	-	-
Undercarriage	Chassis Riser	Optional 300mm		N/A	N/A	Fixed	Optional	N/A	N/A
Conveors	Power Delivery	Rulmeca electric drives		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Conveyors	Collection Conv Width	1050mm		1050mm	1200mm	1200mm	N/A	-	-
Conveyors	Fines Conv Width	900mm		800mm	900mm	800mm	900mm	900mm	900mm
Conveyors	Fines Conv Discharge	2.5m-3.8m	2.8m-4.1m	3.6m	3.5m-3.9m	4m	3.7m	4m	3.9m
Conveyors	Mids Conv Width	900mm		800mm	900mm	800mm	900mm	800mm	900mm
Conveyors	Mids Conv Discharge	2.5m-3.7m	2.8m-4.0m	3.6m	2.5m-3.6m	3.4m	3.6m	3.78m	3.6m
Conveyors	Overs Conv Width	1200mm		1200mm	1400mm	1200mm	1200mm	1200mm	1400mm
Conveyors	Overs Conv Discharge	2.0m-3.8m	2.3m-4.1m	3.45m	2.77m - 3.75m	3.6m	4m	3.3m	4m
Conveyors	Side Conveyors	Over Top Fold (Internal Cylinders)		Over Top Fold	Over Top Fold	Over Top Fold	Over Top Fold	Side	Over Top Fold
Conveyors	Side Conveyors	2/3 Way (Full Hyd, Patented)		No	No	No	No	-	-
Conveyors	Side Conveyors	Reversible (L-R) Quick release		N/A	N/A	N/A	N/A	No	-
Power Unit	Engine Model	CAT C3.6 Genset Stage V		CAT	CAT	CAT	CAT	-	John Deere
Power Unit	Engine Power	94kW		94kW	94kW	82 kW	88 kW	55kW or 88kW	94 kW
Power Unit	Engine Speed	1500rpm		2200rpm	2200rpm	2200rpm	1800rpm	1800rpm	-
Power Unit	Power Delivery	Diesel Electric		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Power Unit	Fuel Tank	335 Litres		342 Litres	399 Litres	327 Litres	336 Litres	280 Litres	-
Power Unit	100% Electric Plug in	Yes - Standard		N/A	Optional hyd p.pack	Optional hyd p.pack	Optional hyd p.pack	Optional	Optional
Power Unit	Fuel burn per hour	8 Litres		15 Litres	19 Litres	20 Litres	17 Litres	15 Litres	-
Service	Maintenance Platform	Yes - Standard - 600mm both sides		Yes-300mm	Yes-300mm	Yes	Yes	Optional	Yes



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