



## Technical Description Roco Sprinter 1500



### **ROCO** SPRINTER 1500

*Patent Pending Technology*

#### **DESCRIPTION:**

Heavy Duty Hybrid Mobile Scalping Screen with Following Key Features:

- Diesel Electric HYBRID, Option To Operate 100% On Electricity Supply.
- Low Noise (1500RPM) & Set-speed Engine / Genset.
- Unique 2/3 Split Design (Fully Hydraulic).
- 900mm Folding Over Top Conveyors.
- Superb Stockpiling Capacity.
- Aggressive Throw Of Up To 12mm (1/2").
- Improved 5° Screening Angle On Bottom Deck.
- Super Access To Bottom Meshes (3 No., For Easy Handling)
- Safe Setup Design With No Manual Labour Required.
- Maintenance Friendly Access To All Major Areas.
- Permit Free Transport.



Hybrid Electric  
Plug-In



## DIMENSIONS AND WEIGHT:

Length – Transport	13.78m (45' 3")
Length – Working	14.24m (46' 8")
Width – Transport	2.55m (8' 2")
Width – Working	12.591m (41')
Height – Transport	3.2m (10' 6") / 3.5m (11' 6") Chassis Riser (+ 300mm)
Height – Working	
Weight – Estimated	29,000kgs (64,000 lbs) - Standard Build
Output Capacity	Up to 350tph

## CAPACITIES:

Capacity – Hopper (Level)	6.0m3 (7.8 yd3) Optional Hopper Ext 9.0m3
Fuel Tank Capacity	330L (72 US Gal)
Hydraulic Tank Capacity	320L (70 US Gal)
Hydraulic Oil Cooler	Yes (Thermostatic Control)
DEF Tank (Stage V) (EU/US)	20L (5 US Gal)

## FEED CONVEYOR:

Drive	Electric Motor & Epicyclic Gearbox
Belt Width	1.2m (48")
Belt Spec	Plain SW630 Ripstop
Adjustable Speed	YES (VSD)
Speed	0 - 0.24 m/s
Twin Drive Motors	Optional For Surge Loading

## COLLECTION CONVEYOR:

Drive	Electric Drive Drum (Sealed Bearings)
Belt Width	1.05m (43")
Belt Spec	Plain
Maximum Speed	2.0 m/s



### **OVERSIZE/TAIL CONVEYOR:**

Drive	Electric Motor & Gearbox
Stockpile height	2.0m - 4.1m
Angle	0° - 24°
Belt Width	1.2m (48")
Belt Spec	Heavy Duty Chevron 500/3 5+1.5
Adjustable speed	YES (VSD)
Maximum Speed	0 - 1.6 m/s

***\*Full length Impact Bars Installed For Maximum Belt Protection***

### **MID PRODUCT SIDE CONVEYOR:**

Drive	Electric Drive Drum (Sealed Bearings)
Stockpile Height	2.5m - 4.0m
Angle	5° - 27°
Belt Width	900 mm (36")
Belt Spec	Chevron – 315/3 3+1.5
Speed	1.25 m/s

### **FINE PRODUCT SIDE CONVEYOR:**

Drive	Electric Drive Drum (Sealed Bearings)
Stockpile Height	2.5m - 4.1m
Angle	5° - 27°
Belt Width	900 mm (36")
Belt Spec	Plain - 315/3 3+1.5
Speed	2.0 m/s



## SCREENBOX:

Screen Dimensions- Top Deck	4.2m x 1.4m (13' 9" x 4' 8") *True Screening Area
Screens - Top Deck	1 No. 0.6m x 1.4m & 3 No. - 1.2m x 1.4m
Tensioning – Top Deck	Side Tension Bolted
Tensioning – Bottom Deck	End Tensioned X 3 No. With Improved 5° Angle On First Deck
Screenbox Angle	12° To 20°
Drive System	Direct Hyd Drive With Flexible Coupling
Speed Adjustable	YES - Via Speed Control Hyd Unit
Screen Stroke Adjustable	6mm - 12mm Throw
Screen Shaft Speed	800 - 1200 Rpm

**\*Maintenance friendly access to flywheels, additional weights can be installed or removed w/o removal of motor.**

**\*Generous 600mm (2ft) service platforms with folding ladders fitted to both sides of screenbox (CE Compliant)**

## POWER UNIT:

Engine	CAT C3.6 T4F / STG 5 (1500 RPM)90kW - Set Speed Coupled with Leroy Somer alternator (Genset)
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8-10 L / 2 US Gal p/h working depending on Application/tonnage

Fuel Burn (Average)

### **\*Zero Fuel burn when connected to mains electric supply**

- Electric control panel powered directly by heavy duty quick release connection plug.
- Option to power full SPRINTER plant via external 400/480V power supply via quick release connection plug
- All steel components and electric panel earth linked and run back to earth leakage switch. Machine is fully earthed, thus avoiding possible electrocution to personnel in the event of fault



## ELECTRICS:

Emergency Stops	4 No.,            2 @ Power unit RH & LH 2 @ Tail Conveyor RH &
Start Siren	LH Yes – 10 Second Delay
Engine Shutdowns	Low Oil Pressure High Water Temp Air Filter Blockage Fuel Contamination Low Hydraulic Tank Level Low DEF Level
Radio Control Tracks	OPTIONAL, Pendant Tracking Cable As Standard Plugged in at Feeder End with E- Stop
Flashing Beacon & Siren	YES, (When Tracked)
Work Lighting	Yes - LED Work Lights On Adjustable Lighting Pole

*\*1 x 37kw electric drive motor powering hydraulic tandem pumps. Hydraulic powerpack operates tracking, screenbox and deployment only.*

*\*Sealed JP66 operators panel for machine start up, auto or manual controls. Operators instruction & startup sequence numbered.*

## TRACKS:

Width	400mm
Length	3m
Height	740mm
Speed max	0.8km/h (0.5mph)
Gradeability	32°
Max slope side to side	10°
Attachment to Chassis	Bolt On



## OPTIONS:

Top Deck Bofor Bars

Top Deck Punch Plate

Heavy Duty Top Finger Deck

Radio Remote Control for Tracking

Heavy Duty Steel Apron Feeder (Replaces Belt Feeder)

Apron Width: 1.2m (48")

Apron Spec: 10mm Hardox Sealed Paddles

Chassis Risers

300mm (1ft)

Hydraulic Folding Hopper Extensions

9.0m<sup>3</sup> Capacity

Twin Drive On Feeder For Surge Loading

## SAFETY FEATURES:

External Belt Alignment Points

Engine Safety Shutdown Systems

Full Safety Guarding for Nip Points

Side Conveyors Lower Horizontally For Maintenance

CE Compliance

Delayed Start & Warning Siren

LED Work Lights & Additional LED Light For Track Maneuvering (New CE Compliance)

Flashing Beacon

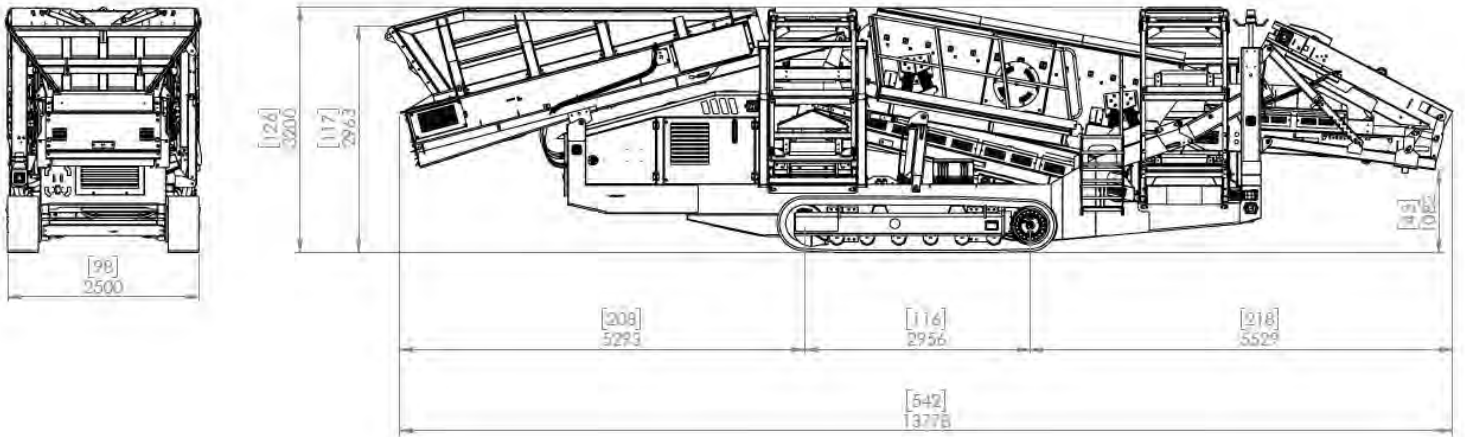
Automatic Placement Of Oversize Conveyor Guards - Patent Technology

2/3 Way Split Configuration Adjustment Without Any Disassembly Or Lifting

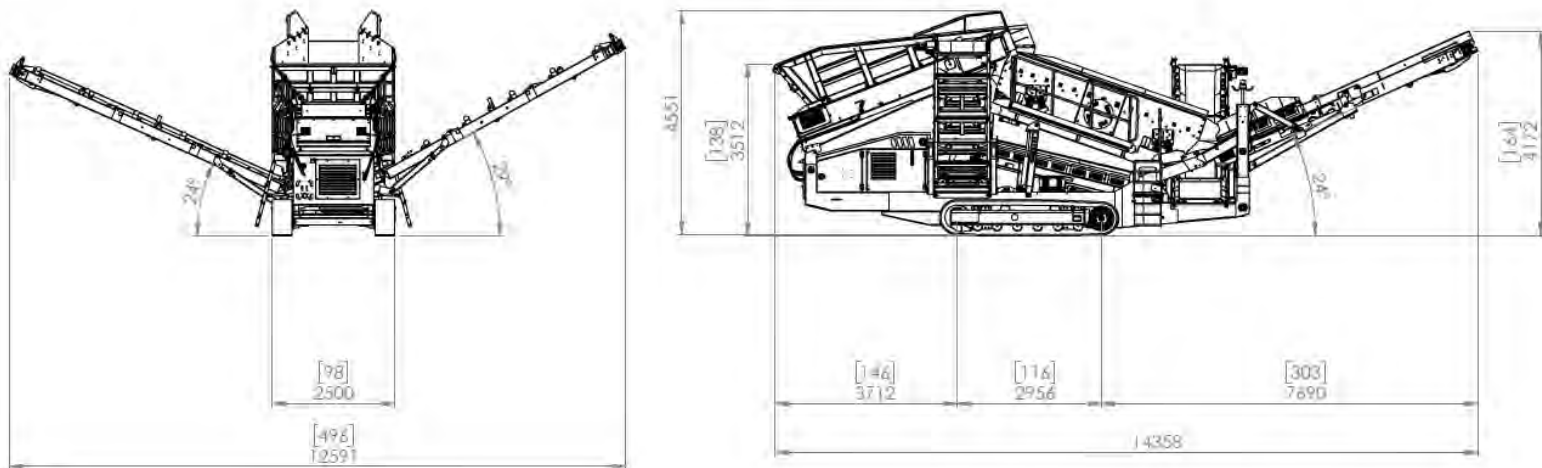
Fully Hydraulic & Secured By Safety Pins - Patent Pending Technology

Two Sided Service Platform For Maintenance (CE Compliant)

**Transport position:**



**Working position:**



**The manufacturer reserves the right to make technical updates.**



## Contact Details

205A Concession Road  
Crossmaglen  
Newry  
BT35 9JD  
Northern Ireland

Tel: +44 (0)28 3086 8833  
Email: [sales@roco9.com](mailto:sales@roco9.com)

[roco9.com](http://roco9.com)

