Phoenix SPC12e Self Propelled Chipping Spreader

- Volvo Penta engine
- Stage 4 final emissions compliant
- 129kW with 800Nm torque.
- Four wheel drive
- Twin 600mm wide conveyors
- Application rates: 2 to 20 kgs/m²
- Max spread width: 4,900 mm
- Air conditioning as standard

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Operators Position and Cab
Operator position for control of machine transmission and spreading, at front of machine above spreading hopper, to give all round visibility of the SPC12e's operation.
Air suspension operators seat with right hand joystick for travel control and switches for basic spreading operation. Further controls to right side in console with display for engine, transmission and spreading function information. Adjustable steering column with switching for lights and engine controls.
Cab accessible from both front side of machine, barn type doors and rear visibility aids.
Air conditioning unit, internal to cab.

Engine
Volvo Penta 4 cylinder, 5 litres turbo intercooled diesel engine. Engine model TAD571VE Stage 4 final emissions complaint. Maximum engine power 129kW with 800Nm torque. Engine configured to run at fixed rpm speed.
High efficiency air filter. Selective catalyst reducing (SCR) unit for exhaust after-treatment with side mounted 45 litres AdBlu tank.
Engine electrics 24vdc with 110amp alternator

Hydrostatic Transmission
Danfoss hydrostatic drive (closed loop pump and motor) transmit power from engine to gearbox.
Smooth, infinite speed control with additional speed controller for spreading operation.

Gearbox
2 speed gearbox for spreading and travel operations.
Gearbox model ZF 2HL270 mounting between front and rear axles.
Constant four wheel drive operation.

Axles
Both front and rear axles are 24 tonne static load capacity, JCB units, each axle being fitted with a limited slip differential. Front axle is centre pivot, hardened & ground solid steel. Hydraulic power steering. Both axles prop shaft driven.
Front steer axle track 2,000mm
Rear axle track 2,290mm

Tyres
425R65x22.5 Highway Pattern, tyres.

Brakes
Triple circuit hydraulic operation brakes – service brakes on front and rear axles with parking / emergency brake on rear axle. All with power off operation capability. Oil immersed multi disc services brakes in front and rear axles, each operated by separate hydraulic circuits.
Rear axle mounted calliper brake for parking/emergency operation with fail safe operation.
Further park brake contained within gearbox.

Steering
Hydraulically operated power steering with own independent hydraulic pump.

Hydraulic Circuit and Tank
Hydraulic tank capacity: 280 litres
Hydraulic oil cooler with dual electric fans.

Fuel Tank
Diesel fuel tank capacity: 280 litres

Spreading/Aggregate System
Spreading system designed for the accurate application of graded aggregate to the road surface.
Chipping size: 3 to 25mm
Application rates: 2 to 20 kgs/m²

Conveyors
Twin 600mm wide conveyors to transport aggregate from rear receiving hopper to front spreading hopper. Independent control with varying speed and auto ON/OFF to keep spread hopper filled.

Rear Receiving Hopper
Folding rear sides to direct aggregate onto conveyors, hydraulically operated
Rubber surround to prevent aggregate spillage when loading
Overall capacity 3m³

Front Spreading Hopper
Spread hopper with upper storage section to free flow aggregate into three part spread hopper. Central hopper with 8 individually operated blades to restrict width of spread. Two further extension hoppers that expand/retract to either side, before or during spreading, to vary overall spread with up to maximum. Each spread hopper fitted with spread roller to ensure even application and feedgate, manually adjustable for aggregate size and application rate.

Spreading Width Spec

Max spread width	4,900 mm
Max travelling width	2,750 mm
Max width over rear tyres	2,725 mm