

Synchronous Sprayer-Spreader

# Chipsealer 41

VRM.MX

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## YOUR PROJECT

PRODUCT	CHIPSEALER 41		CHASSIS	Trailer - 2 fixed axles
SYNTHESIS	TANK (L)	TIPPER (m <sup>2</sup> )	SPRAY BAR (m)	CHIPSPREADER (m)
	6,000	12	4	3.8



CHIPSEALER 41 is a high technology sprayer spreader.

The dosing is controlled by a computer, providing user comfort and accuracy, for both binder and chips.

CHIPSEALER 41 fulfils requirements of the EN 12271 Surface Dressing/Chipseals standard, in terms of average application and transversal distribution

## TECHNICAL SPECIFICATIONS

## BINDER TANK

- Suitable for hot binders
- Wave breaking wall in the tank, avoiding any binder movement during transportation
- Manhole protected and insulated with fast opening and overflow pipe
- Access platform to the manhole, with safety guards
- Tank gauge, float type, calibrated every 500 L
- Constant air breathing of the tank
- Emptying of the tank by gravity, with stopping valve.

## TANK INSULATION

- Heat-insulation of 100 mm,
- Rockwool layer with high density
- Protected by a DURALINOX sheet cover
- Thermal bridge suppression giving a calorific loss reduction.

## INDIRECT TANK HEATING SYSTEM

- RIELLO burner: Automatically – controlled Diesel oil burner with electric ignition
- 90 L diesel oil tank, common with the auxiliary engine
- Double coat "U" shape heating tube
- Stainless steel gas exhaust
- « High temperature » thermal oil with expansion vessel
- Thermal oil circulation pump driven by a hydraulic motor
- Dial combistats graduated from 0 - 200°C (binder) and 0 - 300°C (oil), allowing to set the desired binder and oil temperatures as well as showing the real ones
- Safety thermostats for oil and binder
- Binder circuit warming system, fed with the same thermal oil

## BINDER CIRCUIT WARMING SYSTEM (BY THERMAL OIL)

- Thermal oil for heating :
  - Supplying valves, binder filter, binder pump, main spray bar and extensions, feeding hose pipes to the spray bar

## BINDER PUMP

- External pump: max flowrate of 45 m<sup>3</sup>/h
- Driven by a hydraulic motor
- Double coat pump heated by the thermal oil
- Application rate range: from 0.1 kg/m<sup>2</sup> to 3.3 kg/m<sup>2</sup> at 3.6 km/h and 4 m large

## BINDER CIRCUIT

- Modular valve block with pneumatic controlling, computer controlled from the rear platform:
  - Binder mixing inside the tank
  - Binder circulation in the spray bar with return to the tank
  - Binder spraying with the the spray bar or hand lance
  - Draining the binder circuit with return to tank
  - External suction
- Binder filter :
  - Before the pump and heated by thermal oil
  - Accessible from a secured platform

**FOLDABLE SPRAY BAR**

- Spray bar width: 4 m
- 40 flat nozzles spaced every 100 mm, pneumatically controlled
- Spray bar heated by thermal oil
- Foldable spray bar in 3 parts: one main part and 2 extensions, foldable rearwards in event of collision
- Complete binder circulation with 2 hose pipes
- Spray bar extensions hydraulically controlled, for unfolding/folding
- Spray bar height adjustment by 2 hydraulic jacks, individually controlled
- Spray bar side shift of 200 mm each side

**HAND LANCE**

- In aluminum
- Ergonomic adjustable handle
- Conical spray head
- 8 m of hose pipe, with swivel joint

**CLEANING SYSTEM**

- Re-suction of the binder circuit and spray bar, after spraying, with back flow to the tank
- Complete cleaning of the system with pressurized air
- Intake to inject cleaning agent into the binder system

**TIPPER**

- In steel, with transversal plates
- Lifted by 1 hydraulic jack mounted on ball joint
- Two conveyor belts activated depending on the chips demand
- Cleaning weeper blade at the end of the two conveyor belts
- Buffer hopper with screening grid and transferring auger to the right/left to feed the chipspreader
- Low gravity center and centered on the chassis
- Loading height : 2.90 m

**CHIPSREADER**

- Chipspreader width: 3.8 m
- Fed by the buffer hopper
- 14 gates, articulated on one axle, pneumatically controlled
- Chips distributor with extensions plates, within the road size when folded, pneumatically controlled
- Back chips distributor with extensions plates, pneumatically controlled
- Distribution roller, 220 mm diameter, driven by a hydraulic motor
- Protection flanges on both extreme sides of the roller to guide the chips
- Application rate set by hydraulic adjustment of the gates height

**APPLICATION RATE AUTOMATISM**

- Controlling and regulation automatism in compliance with EMC standards
- Computer controlling the binder application rate depending on the following parameters:
  - Spraying width
  - Speed of the truck, measured by radar
  - Set application rate
- Computer controlling the chips application rate depending on the following parameters:
  - Tipper angle
  - Speed of the truck, measured by radar
  - Set application rate

**CONTROLS FROM THE REAR PLATFORM**

- Control station on the rear platform, doubled (both right and left sides)
- Control station with:
  - Individual selection of nozzles/gates
  - Main command for preselected nozzles/gates
  - Spray bar opening and closing control
  - Selection switch to spray binder and/or chips
  - Lateral extensions command for spray bar and chipspreader
  - Spray bar side shift command
  - Individual command of the height of the spray bar, left/right
- 7" ergonomic screen to access to the different functions, located in a secured locker
- The following information are available at any time on the screen
  - Binder/chips application rates
  - Spray bar width
  - Emulsion pump speed
  - Truck working speed
  - Warning messages when a problem occurs with a peripheral

**INFORMATION IN THE TRUCK CAB**

- Intercom Allowing to communicate between the rear platform and the truck cab
- Truck speed display

#### AUXILIARY ENGINE

- Deutz diesel engine:
  - Stage III a
  - 33 kW à 2,000 rpm
  - Air cooling
  - Integrated compressor
- 90 L diesel tank with filter
- From the right, accessible from the ground
  - Electrical start of the engine
  - Monitoring display

#### HYDRAULIC CIRCUIT

- Hydraulic pump driven by the thermal engine
- Pressure gauge
- Hydraulic blocks to supply the different motors
- Hydraulic tank with filtering device

#### PNEUMATIC CIRCUIT

- Separate buffer tank
- Filter, relief valve, control gauge

#### ELECTRICAL CIRCUIT

- Insulator

#### CAMBER

- Mounting on the trailer chassis, allowing to receive:
  - The tank
  - The binder circuit and components
  - The spray bar and components
- Wending onto the trailer according to the trailer manufacturer prescriptions
- Mudguards

#### MISCELLANEOUS

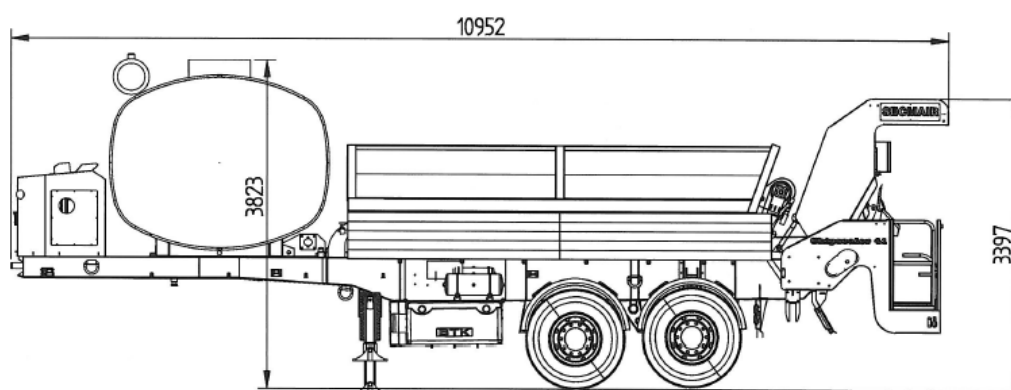
- Extinguisher
- Storage locker
- Chocks x 2

#### PAINT

- Wash primer and 2 polyurethane topcoats in yellow color

#### DIMENSIONS AND WEIGHT

- Length = 10,952 mm
- Width = 2,500 mm
- Loading height = 2,900 mm
- Max height = 3,823 mm
- Empty weight = 12,000 kg



## SPRAYING CERTIFICATE

### CONTROL ON OUR CERTIFIED SPRAY CONTROL FACILITY

- This check allows to control the average rate of spread and the transversal variation coefficient for the binder spraying
- Test bench report supplied at the delivery

## DOCUMENTATION AND COMMISSIONING

### TECHNICAL DOCUMENTATION

- User manual
- Technical manual
- Spare parts manual

### ON SITE COMMISSIONING (2 DAYS)

- Training of operators done by one of our engineers on site
- Additional training possible (surface dressing technic, maintenance)
- Training centre – Courses available on [www.secmair.fayat.com](http://www.secmair.fayat.com)

## OPTIONS AND DETAILED PRICES

POSSIBLE / KEPT (X)	DESIGNATION	Price €
	<b>PRICE BASIS MODULE (FCA Cossé-le-Vivien FR)</b>	
	Commissioning part kit <ul style="list-style-type: none"> <li>• Electrical circuit parts               <ul style="list-style-type: none"> <li>○ Switches</li> <li>○ Fuses</li> <li>○ Limit switch sensor</li> <li>○ ...</li> </ul> </li> <li>• Pneumatic circuit parts               <ul style="list-style-type: none"> <li>○ Valve block</li> <li>○ Air pipes</li> <li>○ Inserts</li> <li>○ Lubricating oil</li> <li>○ ...</li> </ul> </li> <li>• Binder circuit parts               <ul style="list-style-type: none"> <li>○ Jets</li> <li>○ Seals (manhole, filter, jets)</li> <li>○ 3 m pipe</li> <li>○ ...</li> </ul> </li> <li>• Chips circuit parts               <ul style="list-style-type: none"> <li>○ Tipper rollers</li> <li>○ Chip box</li> <li>○ ...</li> </ul> </li> </ul>	

PRICE LIST

PRICE BASIS MODULE ( <i>FCA Cossé-le-Vivien FR</i> )	XXXX €
PRICE KEPT OPTIONS	XXXX €
TOTAL PRICE FCA	XXXX €
SHIPMENT	XXXX €
TOTAL DELIVERED PRICE	XXXX €



## PICTURES

### OVERVIEW



### DETAILS

Binder circuit



Binder tank manhole



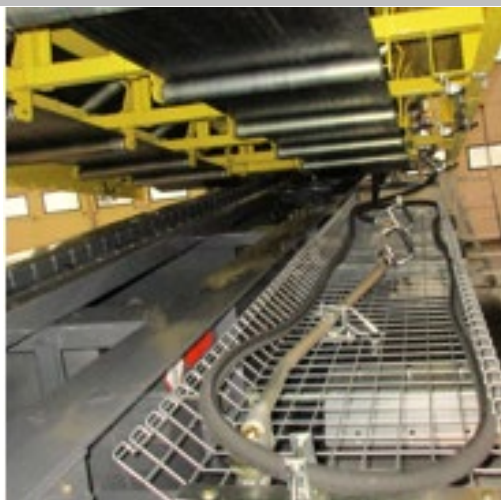
Tipper in transfer/loading position



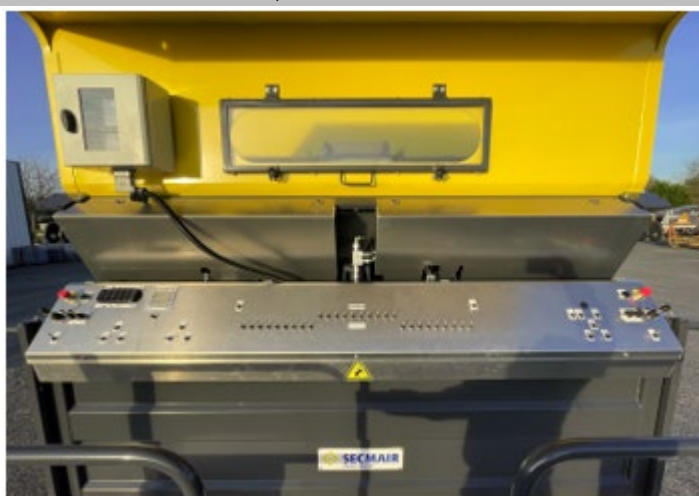
Spray bar



Hand lance



Rear platform – rear view



Rear platform – side view



Power unit

