

Cracksealing machine
STRASSMAYR RWK 600/500 FRC
 with compressor and quartz sand feeder



The Straßmayr RWK FRC crack-sealing machine is designed for implementation of entire process of crack sealing, including cleaning and warming of crack, easy preparation and dosage of special sealing compounds for the cracks, joints or road edges and covering of freshly repaired crack with quartz sand overlay.

The unit is assembled on the frame, ready for assembly on the platform of a trailer or on small truck platform. The main tank walls are filled with thermal oil, allowing to work with sealing materials heated up to 200°C. The horizontal mixer and heated grill located on the top of the boiler are ensuring constant delivery of the sealing compounds to the applicator lance without the risk of blocking the mixer operation while adding fresh blocks of material.

Base construction

- unit assembled on frame
 ready for assembly on the trailer or platform of the truck
 size of the platform is the subject of arrangement, allowing assembly on different platforms
- unit including:
 - crack sealing unit Straßmayr RWK 600/500 FR with engine drive
 - screw compressor KAESER M 27 with engine drive

Main engine

- KOHLER KDW1003
 fulfilling exhaust emission regulation:
 EPA Tier 4 final and EU Stage V
 In-line 3-cylinder liquid cooled Diesel
 engine power 18 kW
 engine radiator with fan
- hydraulic pump driving all the functions
 hydraulic oil tank with filter and temperature/oil level indicator

Boiler

- horizontal mixer with hydraulic drive
 - providing best temperature equalization in whole capacity of boiler
 - providing best mixing of the sealing material
 - allowing filling up the material during operation
 - possibility of reverse in case of need
- initial grill placed above the mixer
 - with thermal oil in the temperature of about 260°C flowing inside
 - allowing preheating of blocks of material prepared to be added to the boiler
 - hard mass blocks are placed on the initial grid, where they are preheated and melted
 - allowing quick start of operation with smaller amount of material preheated
- effective amount of the material prepared about 500 l

Oil heating system

- automatically controlled heating system with RIELLO Diesel burner
 - heating pipe heated by heating oil burner (heating the thermal oil)
 - heating pipe is located between the walls of the boiler
 - protects against overheating of the material heated
- thermal oil heated furnace
 - the mass is heated over the entire surface of the walls of the boiler
 - capacity between the walls of the thermal oil boiler 200 l
- pump for distribution of thermal oil with hydraulic drive
- system of three thermostats
 - one for thermal oil temperature adjustment
 - one for material temperature adjustment
 - one for security of the whole system

Crack filling set

- material pump for delivery of sealing material with hydraulic drive
 - type of material pump Steimel
 - material pump placed inside the boiler
 - easy and trouble-free system of dismantling of material pump set
- set for filling cracks
 - manual lance for delivery of the material to the spot
 - lance equipped with manual valve for opening and closing of material flow
 - valve with manual regulation of efficiency of material delivery
 - special hose with a length of 4 m

Tank for fuel (diesel)

- tank capacity 60 l

Compressor

- dedicated to delivery of pressed air for the hot lance and sand distributor
 - type KAESER M 27, assembled on the frame
 - with Kubota D 1105 engine with power 17,90 kW, water cooled
 - with all necessary connections for delivery of air
 - air delivery 2,6 m³/min, at 7 bar
- hot lance of a choice must be delivered (ordered) separately
- gas bottles of a choice must be delivered (ordered) separately

Additional equipment

Single-Axle trailer

- permissible total weight 5 000 kg
- construction made of special steel
- pneumatic brake system WABCO
- electric street light system 24V
- including assembly on the trailer
- including EU homologation

Tandem Trailer

- permissible total weight 5 000 kg
- construction made of special steel
- pneumatic brake system WABCO
- electric street light system 24V
- including assembly on the trailer
- including EU homologation

Sand distributor

- dedicated to delivery of special sand
- ACF- SE 20, assembled on frame
- Driven by pressed air delivered from the compressor
- with all necessary connection for sand delivery
- hand lance for discharge of quartz sand

Installation of edge sprinkling

- spraying ramp with 3 nozzles, max spray-width of 120 mm.
- ability to enable the individual nozzles
- manual adjustment of pressure in the beam spray
- spraying ramp heated with thermal oil.
- spraying ramp with manual slope adjustment

System of night-heating of thermal oil

- utilizing a two-stage Riello burner
- separate thermostat for night heating control
- 230V wall plug connection to power the burner

System of additional heating of special hose

- 24V electric system of heating of special hose
- dedicated generator with hydraulic drive
- allowing heating of special hose up to temperature of 180 deg. C

System of jobsite lights

- 2 LED lights assembled on special frame, lighting the area behind the unit
- adjustable distance between the lamps
- all necessary required electric connections

Strassmayr CRACK PORTAL system

- automatic tracing of reparation with GPS and GSM systems
- automatic calculation of reparation done using thermal camera and special computer algorithm
- automatic storage of data at dedicated server
- special folding mounting system with supports for cameras

Assembly examples

