

## Cracksealing machine on trailer **STRASSMAYR RWK 600/500 HHC** with compressor



The Straßmayr RWK HHC 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.

The unit is assembled on the tandem trailer, with the opportunity of self-drive on the jobsite, equipped with one main engine HATZ 4H50 TICD driving all the functions of the boiler, drive on the jobsite and compressor. 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 a tandem trailer
- first axle lifted by self-drive on a jobsite
- permissible total weight 3 500 kg
- construction made of special steel
- brake system with overrun brake
- electric street light system 24V
- including EU homologation
- holders for 2 gas bottles
- working arm for suspension of material delivery hose
- working arm for suspension of air delivery hose
- unit including:
  - crack sealing unit Straßmayr RWK 600/500
  - screw compressor Dynaset HKL 2600

### Main engine

- main engine HATZ 4H50 TICD
- fulfilling exhaust emission regulation EPA Tier 4
- vertical 4-cylinder liquid cooled Diesel
- engine power 55 kW
- engine radiator with fan
- hydraulic pump driving all the functions
- hydraulic oil tank with filter and temperature/oil level indicator

## **Tank for fuel (diesel)**

- 2 tanks, each with capacity of 60 l (total volume 120 l)

## **Hydraulic drive for a trailer**

- hydraulic drive with steering gives the possibility of independent movement of the machine at the construction site during the implementation of renovation works.
- hydraulic drive for single front wheel
  - working speed 0 - 3 km / h, infinitely variable
  - cruising speed 0 – 8 km/h, infinitely variable
- first axle of trailer lifted by self-drive of the machine on the jobsite
- hydraulic steering wheel located in the rear part of the machine
  - steering of the driven wheel with hydraulic cylinder, operator seat

## **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
- 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

## **Compressor**

- dedicated to delivery of pressed air for the hot lance and sand distributor
  - type Dynaset HKL 2600, assembled on the frame
  - with hydraulic drive delivered by main engine of the unit
  - with all necessary connections for delivery of air
  - air delivery 2,6 m<sup>3</sup>/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

### 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

### 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

### 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 material hose

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

### System of switching on/off the material pump

- system allowing switching on/off the material pump
- operated by the electric switch located on the material lance
- available only with system of additional heating of material hose

### Material pump placed outside the boiler

- material pump for delivery of sealing material with hydraulic drive
- type of material pump Steimel
- material pump placed outside the boiler
- material pump with coat heating system
- easy and trouble-free system of dismantling of material pump set

### 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